

# 에너지통계월보

## 2022/12

Monthly Energy Statistics

2022년 9월 자료

Data up to September 2022



## 약어 및 부호 Abbreviations and Conventional Signs

**kcal** : Kilocalorie(킬로 칼로리)

**GWh** : Gigawatt hour(기가와트아워)

**MWh** : Megawatt hour(메가와트아워)

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

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

- Nil(없음)

**p** Preliminary(잠정값)

... Not available(해당없음)

**e** Estimate(추정값)

---

## 열량환산계수 적용안내

에너지법 시행규칙 제5조제1항에 의거

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



주소: 울산광역시 중구 중가로 405-11(성안동)

전화: 052-714-2114

팩스: 052-714-2028

전자우편: EnergyStat@keei.re.kr

홈페이지: <http://www.keei.re.kr>

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





# 1. 일러두기 Explanatory Notes

## 1. 에너지밸런스 개정에 따른 에너지통계월보 통계량의 변화

- 에너지경제연구원은 에너지수급통계 생산을 위한 작성 틀인 에너지밸런스를 전면 개정하였으며, 개정된 에너지밸런스는 새로운 에너지수급통계 작성 방법으로 통계변경 승인을 완료(2022.10.17.)함.
  - 기존의 에너지밸런스(이하 구에너지밸런스)는 1980년대 구축된 이후 부분적인 수정만을 거쳐 왔기 때문에 최근의 복잡하고 다양화된 에너지수급 현황을 정확히 반영하는데 한계가 존재했음.
  - 이에 따라 에너지경제연구원은 국제기준(IEA)을 준용하면서 우리나라 에너지수급 현황을 가장 현실화할 수 있는 구조 설계와 작성 방법으로 개정된 에너지밸런스를 구축함.
  - 개정된 에너지밸런스는 에너지상품과 에너지흐름을 현실에 맞게 추가 및 세분화하여 구에너지밸런스가 갖고 있던 문제점들을 해소하고, 통계의 정확성을 제고함.
  - 개정된 에너지밸런스는 일 년의 기간에 대한 국가 에너지상품의 수급 흐름을 상세하게 표현한 확장밸런스(Extended balance)와 에너지상품의 수급 흐름을 신속히 파악하는 것을 목적으로 한 달을 집계 기간으로 작성되는 간이밸런스(Simple balance)로 구성됨.
    - 구에너지밸런스: 에너지상품 29개, 에너지흐름 41개
    - 개정에너지밸런스(확장): 에너지상품 58개, 에너지흐름 88개
    - 개정에너지밸런스(간이): 에너지상품 41개, 에너지흐름 48개
- 에너지밸런스 변경 승인이 완료됨에 따라 에너지경제연구원은 에너지통계월보 2022년 12월호부터 개정된 에너지밸런스를 기준으로 작성된 통계량을 반영하여 발표함.
  - 에너지통계월보는 매월 집계되는 간이어너지밸런스를 기준으로 작성됨.
- 개정된 에너지밸런스의 구성요소와 구조는 부록의 'B. 간이어너지밸런스 용어'를 참고

## 2. 에너지수급통계 작성 개요

### 가. 통계작성 근거

- 에너지법 제19조(에너지 관련 통계의 관리·공표)

### 나. 통계작성 승인 내용

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

# 1. 일러두기 Explanatory Notes

## 다. 연혁

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

## 라. 작성 방법

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

## 마. 작성 내용

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

## 바. 결과 공표

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

# 1. 일러두기 Explanatory Notes

## 사. 에너지수급통계 작성 체계



## 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) 2)</sup> ~
		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	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	전년 경상소득(근로, 사업, 재산, 이전)	당월 경상소득(근로, 사업, 재산, 이전)·비경상소득
	지출	소비지출, 비소비지출	소비지출, 비소비지출	소비지출, 비소비지출
분기 공표 항목	소득	경상소득(근로, 사업, 재산, 이전), 비경상소득	-	경상소득(근로, 사업, 재산, 이전), 비경상소득
	지출	소비지출, 비소비지출	-	소비지출, 비소비지출
	가계수지	흑자율, 소비성향, 처분가능소득	-	흑자율, 소비성향, 처분가능소득
	가계수지	5분위 배율	-	5분위배율
연간 공표 항목	소득	경상소득(근로, 사업, 재산, 이전), 비경상소득	- <sup>4)</sup>	- <sup>5)</sup>
	지출	소비지출, 비소비지출	-	소비지출, 비소비지출
	가계수지	흑자율, 소비성향, 처분가능소득	-	-
	소득분배	5분위 배율, 빈곤율, 지니계수	- <sup>4)</sup>	-

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	35.27396	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	0.8927
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

## 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 (m³)	1천 갤런 (영)	1천 갤런 (미)
톤 (메트릭톤)	1	0.984	1.102	7.33	1.16	0.256	0.308
롱톤	1.016	1	1.120	7.45	1.18	0.261	0.313
숏톤	0.907	0.893	1	6.65	1.05	0.233	0.279
배럴	0.136	0.134	0.150	1	0.159	0.035	0.042
입방미터(m³)	0.863	0.849	0.951	6.29	1	0.220	0.264
천 갤런(영)	3.91	3.83	4.29	28.6	4.55	1	1.201
천 갤런(미)	3.25	3.19	3.58	23.8	3.79	0.833	1

### 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
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>7</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	-

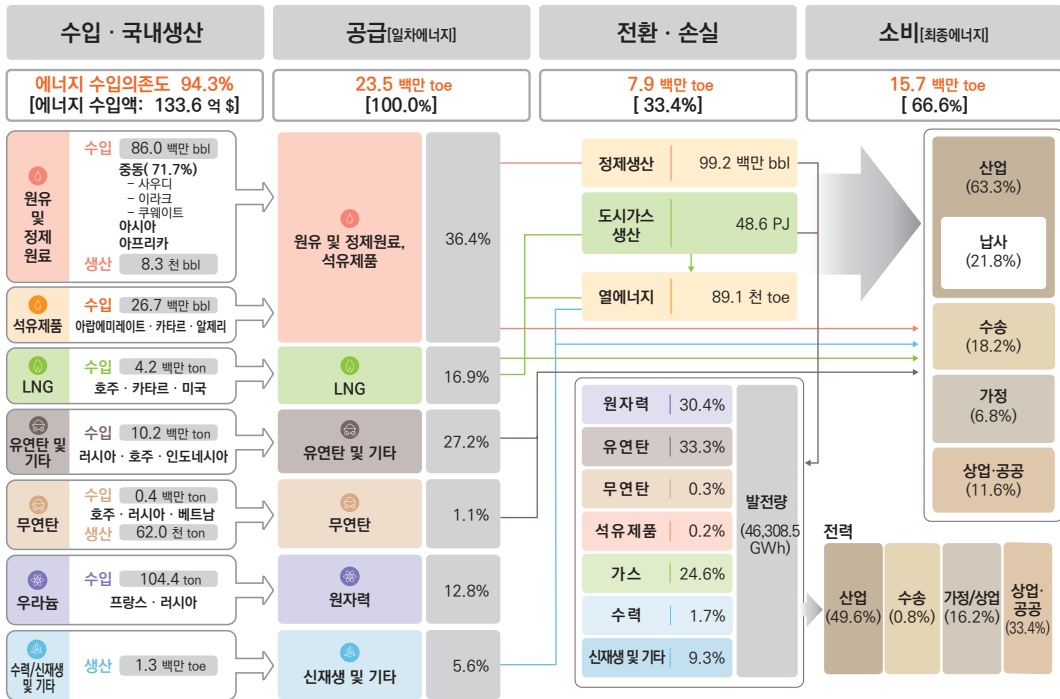


## 목차

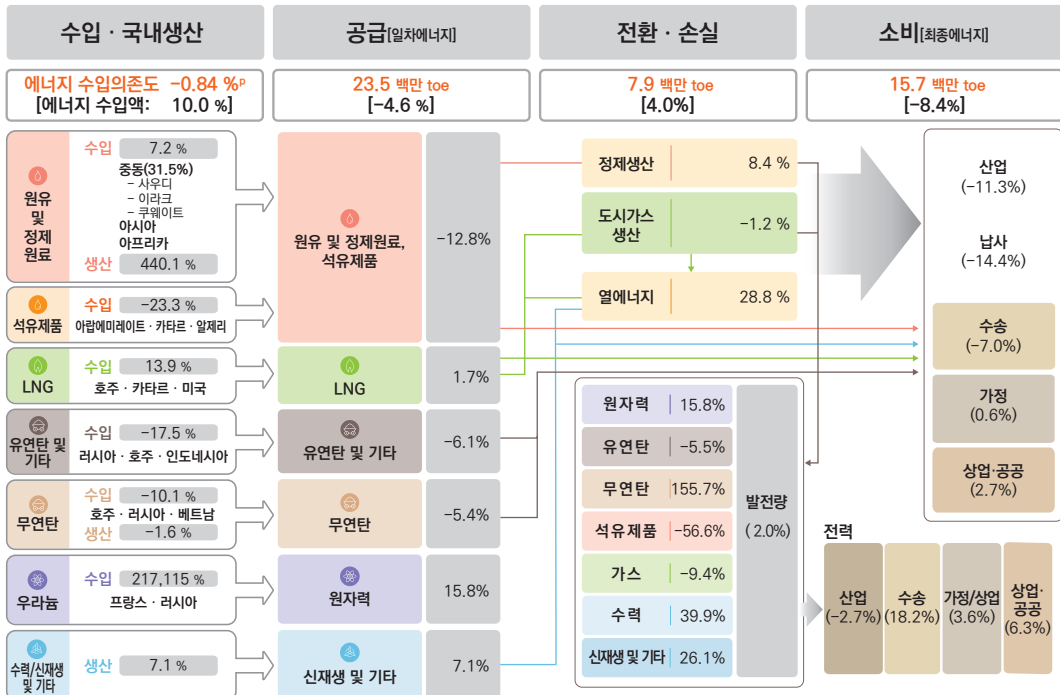
## Contents

1. 에너지개요 및 일차에너지 공급	Energy Overview and Total Primary Energy Supply	5
2. 최종소비	Total Final Consumption	19
3. 석탄	Coal	35
4. 가스	Natural Gas and City Gas	43
5. 석유	Oil	49
6. 전기	Electricity	71
7. 에너지 가격	Energy Prices	81
8. 주요 경제 · 사회 지표	Major Economic and Social Indicators	91
9. 해외 에너지	World Energy	103
10. 에너지밸런스(개정전)	Pre-revision Energy Balance	109
부록	Appendix	121

## 2022년 9월 에너지밸런스 플로우

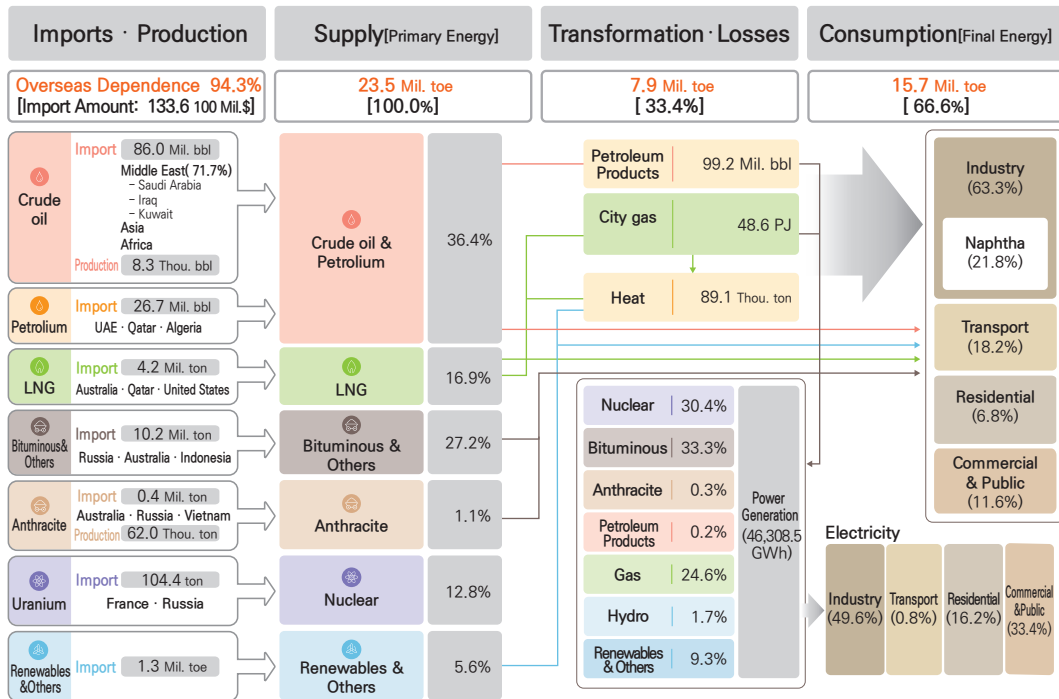


## 2022년 9월 에너지밸런스 플로우(전년 동월대비)

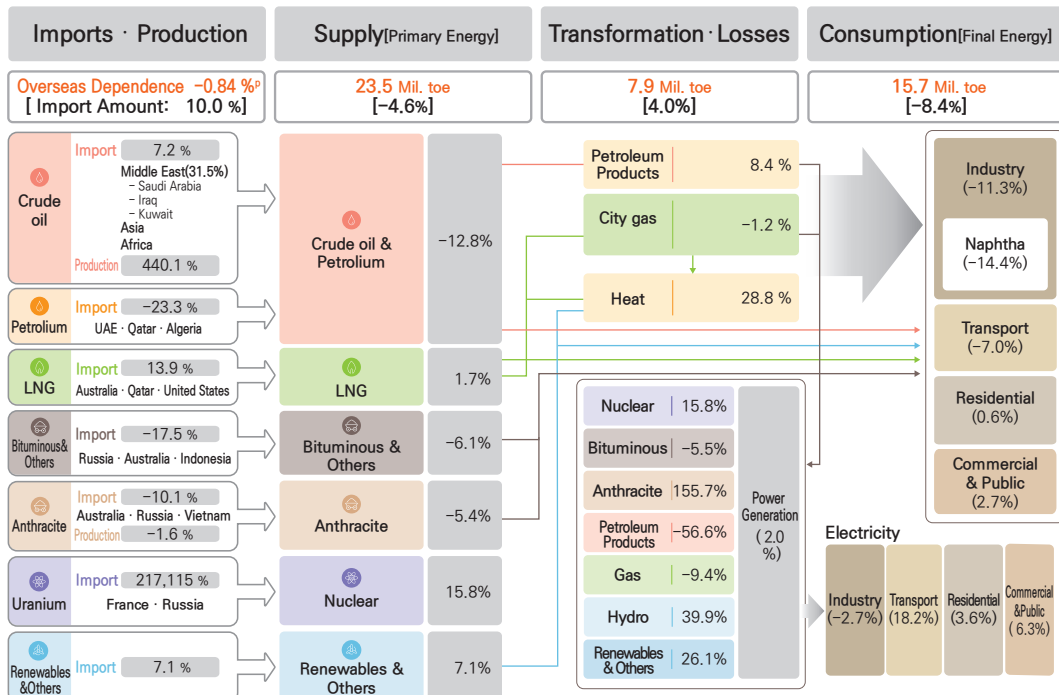


※ 신재생 및 기타: 수력, 태양열, 태양광, 풍력, 해양, 지열, 수열, 바이오, 폐기물, 연료전지, IGCC를 포함

## September 2022 Energy Balance Flow



## September 2022 Energy Balance Flow(Year-Over-Year)

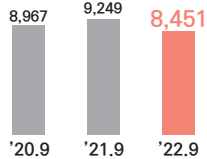


※ Renewables&Others: Solar Thermal, Solar Photovoltaic, Wind, Ocean, Geothermal, Hydro thermal, Bio, Waste, Fuel Cells, IGCC

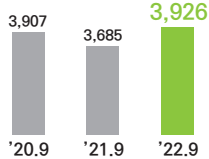
## 일차에너지공급 Total Primary Energy Supply (단위: 1,000 toe)



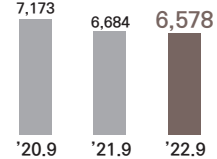
### 합계 Total



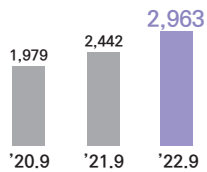
석유 Petroleum



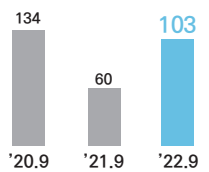
천연가스 Natural Gas



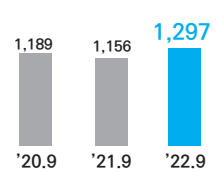
석탄 Coal



원자력 Nuclear



수력 Hydro

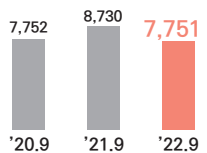


신재생및기타 Renewables&Others

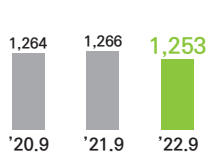
## 최종소비 Total Final Consumption (단위: 1,000 toe)



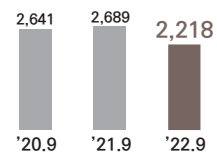
### 합계 Total



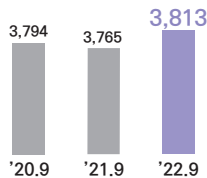
석유 Petroleum



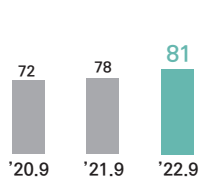
가스 Gas



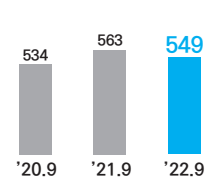
석탄 Coal



전기 Electricity



열 Heat



신재생및기타 Renewables&Others

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

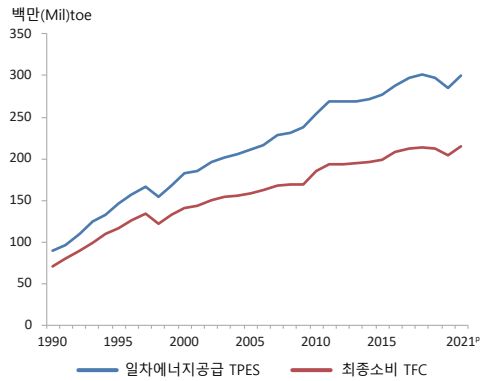
# 1. 에너지개요 및 일차에너지 공급

Energy Overview and Total Primary Energy Supply

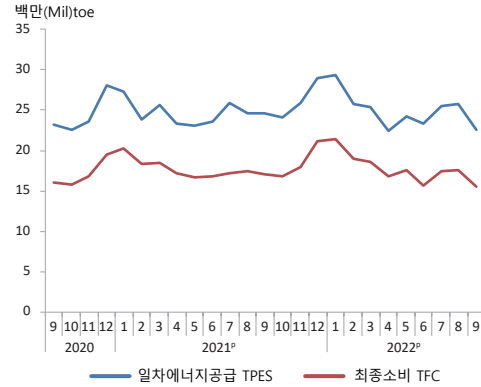
- 1.1 주요 에너지 지표  
Principal Energy Indicators
- 1.2 에너지 생산  
Energy Production
- 1.3 에너지 수출입  
Energy Imports and Exports
- 1.4 에너지 수출입액  
Energy Trade Value
- 1.5 일차에너지공급  
Total Primary Energy Supply
- 1.6 일차에너지공급 원별 구성비  
Shares of Energy Sources in Total Primary Energy Supply



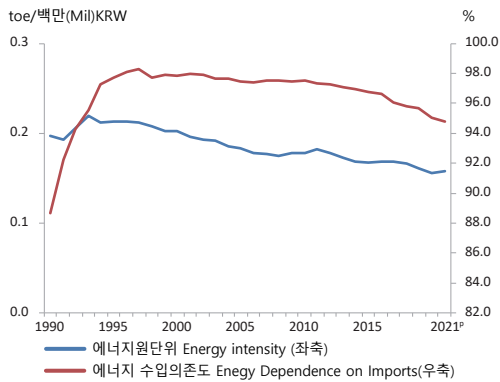
### ● 일차에너지공급, 최종소비 Total Primary Energy Supply, Total Final Consumption

〈1990~2021<sup>o</sup>〉

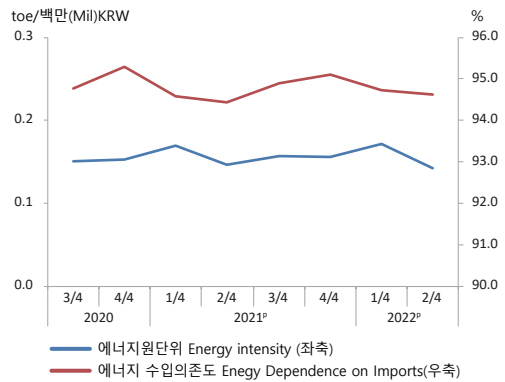
〈월별 Monthly〉



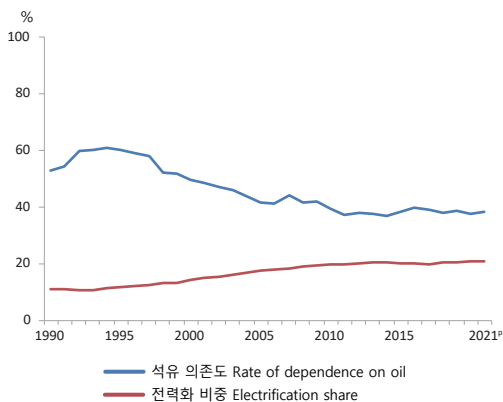
### ● 에너지원단위, 에너지 수입의존도 Energy Intensity, Energy dependence on imports

〈1990~2021<sup>o</sup>〉

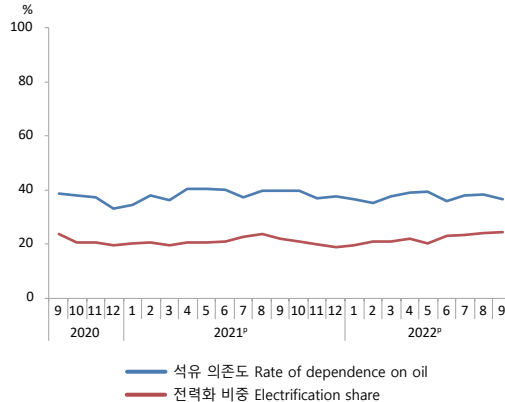
〈분기 Quarterly〉



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

〈1990~2021<sup>o</sup>〉

〈월별 Monthly〉





## 1.1 주요 에너지지표

## Principal Energy Indicators

구분		일차에너지공급	최종소비	에너지원단위 <sup>1</sup>	에너지수입액	에너지 수입의존도	석유 의존도	전력화 비중
		TPES	TFC	TPES/GDP <sup>1</sup>	Energy imports value	Rate of dependence on imports	Rate of dependence on oil	Electrification share
		1,000 toe		toe/mil.KRW	Mil USD	%		
1990		89,680	71,150	0.197	8,209	88.7	52.8	11.2
1995		145,470	116,508	0.213	18,670	97.7	60.4	11.9
2000		183,078	140,958	0.203	37,622	97.8	49.6	14.4
2001		185,809	143,589	0.196	33,652	98.0	48.6	15.2
2002		196,452	150,381	0.192	31,997	97.9	47.1	15.7
2003		201,738	153,972	0.192	37,982	97.6	46.0	16.1
2004		205,220	155,678	0.185	49,075	97.5	43.7	16.9
2005		211,344	158,478	0.183	66,238	97.5	41.8	17.7
2006		216,182	162,528	0.178	84,905	97.4	41.4	18.1
2007		228,144	167,225	0.177	94,306	97.5	44.4	18.6
2008		231,288	168,469	0.175	139,288	97.5	41.7	19.3
2009		238,416	169,567	0.178	90,259	97.4	42.1	19.6
2010		254,399	184,581	0.178	120,478	97.5	39.4	19.8
2011		269,223	193,726	0.182	170,497	97.4	37.4	19.8
2012		268,993	193,771	0.178	182,252	97.3	38.2	20.3
2013		269,531	195,292	0.172	176,561	97.1	37.6	20.5
2014		271,252	195,889	0.168	170,117	96.9	37.2	20.5
2015		276,793	199,347	0.167	100,440	96.8	38.4	20.4
2016		288,018	207,553	0.169	79,953	96.6	40.0	20.1
2017		296,719	212,444	0.169	107,921	96.1	39.1	20.1
2018		300,738	214,001	0.166	143,285	95.8	38.1	20.6
2019		297,608	211,733	0.161	124,777	95.7	38.8	20.6
2020		285,544	203,758	0.155	85,444	95.0	37.8	21.0
2021 <sup>p</sup>		300,617	215,277	0.157	135,555	94.8	38.3	20.8
2020	9	23,222	16,059	0.151	6,363	94.8	38.6	23.6
	10	22,577	15,821	-	6,259	94.9	37.9	20.7
	11	23,643	16,769	-	5,881	94.9	37.3	20.6
	12	28,085	19,498	0.153	7,749	95.3	33.2	19.4
2021 <sup>p</sup>	1	27,234	20,220	-	8,085	95.4	34.5	20.3
	2	23,843	18,393	-	9,488	94.9	38.0	20.7
	3	25,594	18,426	0.169	9,265	94.6	36.4	19.6
	4	23,283	17,189	-	9,381	94.0	40.3	20.5
	5	23,078	16,720	-	9,577	94.2	40.4	20.5
	6	23,569	16,750	0.146	10,415	94.4	40.0	21.1
	7	25,863	17,180	-	11,797	94.8	37.3	22.5
	8	24,542	17,385	-	11,979	94.8	39.6	23.7
	9	24,652	17,091	0.157	12,146	94.9	39.8	22.0
	10	24,125	16,791	-	13,365	94.8	39.7	20.9
	11	25,885	17,964	-	14,472	95.1	36.8	20.0
	12	28,949	21,167	0.156	15,587	95.1	37.7	18.7
2022 <sup>p</sup>	1	29,296	21,427	-	18,297	95.7	36.5	19.6
	2	25,760	19,025	-	14,832	95.2	35.3	21.0
	3	25,368	18,541	0.172	18,965	94.7	37.4	20.7
	4	22,493	16,814	-	17,074	93.8	39.0	21.8
	5	24,272	17,519	-	14,696	94.4	39.4	20.2
	6	23,317	15,705	0.142	14,097	94.6	36.0	23.0
	7	25,445	17,462	-	17,532	95.1	37.9	23.4
	8	25,761	17,622	-	15,986	94.6	38.1	24.0
	9	23,529	15,664	0.152	13,359	94.3	36.4	24.3
2021 <sup>p</sup>	1-9	221,659	159,354	0.157	92,131	94.7	38.5	25.4
2022 <sup>p</sup>	1-9	225,241	159,779	0.152	144,838	94.7	37.3	25.8

1. 월별 수치는 분기자료임.

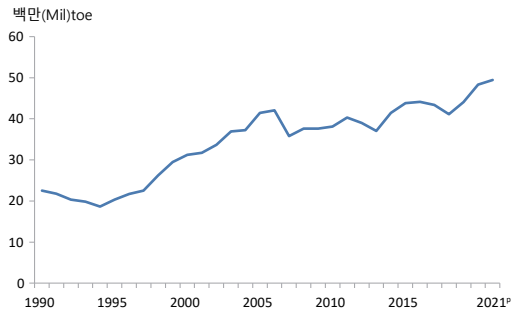
2. 원자력 발전 포함.

1. Monthly figures are on quarterly basis.

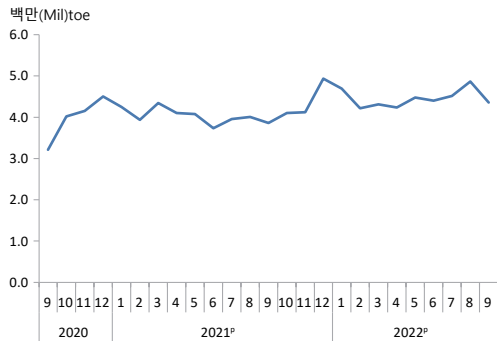
2. Includes nuclear power.

## ● 에너지 생산 Total Energy Production

〈1990~2021<sup>p</sup>〉

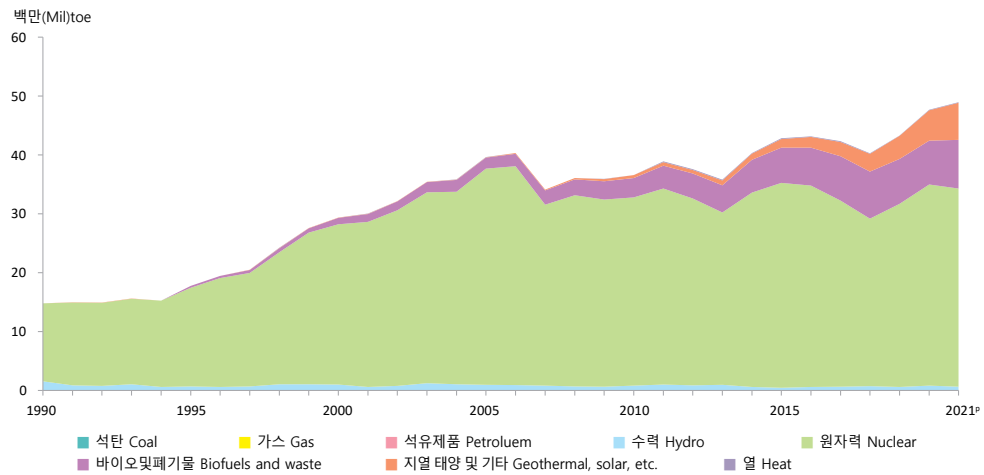


〈월별 Monthly〉

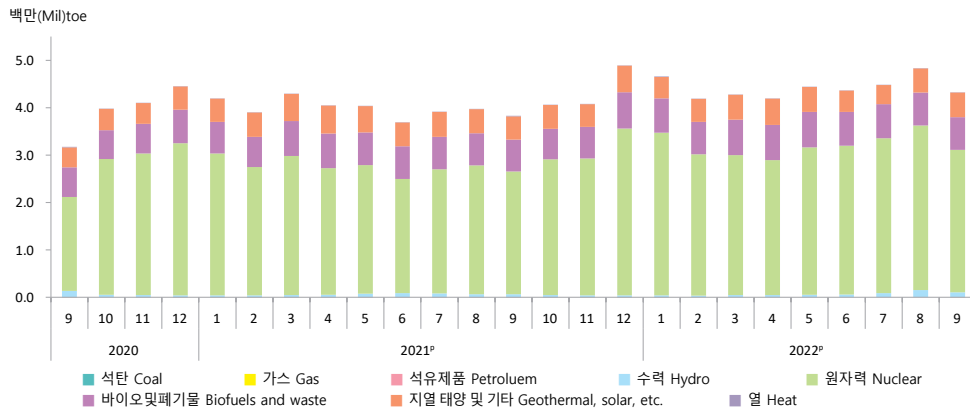


## ● 에너지원별 생산 Energy Production by Source

〈1990~2021<sup>p</sup>〉



〈월별 Monthly〉



## 1.2 에너지 생산

## Energy production

		합계 Total	석탄 <sup>1</sup> Coal <sup>1</sup>	가스 <sup>2</sup> Gas <sup>2</sup>	석유 <sup>3</sup> Oil <sup>3</sup>	원자력 Nuclear	수력 Hydro	바이오및폐기물 Biofuels and waste	지열, 태양및기타 Geothermal, solar, etc.	열 Heat
		1,000 toe								
1990		22,560	7,748	-	-	13,222	1,571	6	10	3
1995		20,362	2,574	-	-	16,757	690	315	23	3
2000		31,255	1,868	-	-	27,241	1,002	1,088	47	10
2001		31,754	1,718	-	-	28,033	582	1,366	42	13
2002		33,647	1,493	-	-	29,776	808	1,516	40	14
2003		36,943	1,484	-	-	32,418	1,226	1,754	41	20
2004		37,480	1,436	212	-	32,679	1,082	1,999	52	19
2005		41,419	1,274	518	55	36,695	919	1,873	73	12
2006		42,065	1,271	461	45	37,187	867	2,110	107	17
2007		35,823	1,342	353	35	30,731	781	2,431	137	14
2008		37,619	1,289	236	23	32,456	660	2,719	199	38
2009		37,603	1,171	498	47	31,771	616	3,109	343	49
2010		38,097	969	539	56	31,948	797	3,274	499	16
2011		40,336	969	451	42	33,265	989	3,882	602	135
2012		38,966	942	436	39	31,719	838	4,247	622	124
2013		37,065	817	463	42	29,283	906	4,629	811	113
2014		41,424	787	322	29	33,002	581	5,585	1,051	68
2015		43,798	794	188	17	34,765	454	6,011	1,444	125
2016		44,106	777	154	15	34,181	603	6,444	1,814	117
2017		43,378	702	341	32	31,615	601	7,534	2,426	127
2018		41,133	569	305	28	28,437	719	7,984	3,024	68
2019		44,078	513	259	23	31,079	594	7,604	3,940	66
2020		48,325	482	185	15	34,119	826	7,478	5,146	73
2021 <sup>p</sup>		49,424	425	55	5	33,657	651	8,257	6,297	77
2020	9	3,213	41	1	0	1,979	134	626	426	6
	10	4,020	37	-	-	2,869	49	609	451	5
	11	4,155	41	12	1	2,992	43	623	437	5
	12	4,506	39	12	1	3,208	41	708	490	8
2021 <sup>p</sup>	1	4,246	36	10	1	2,991	41	670	489	8
	2	3,940	30	6	0	2,712	36	638	512	5
	3	4,344	39	7	1	2,939	43	735	573	6
	4	4,102	42	7	1	2,673	50	730	591	7
	5	4,080	33	8	1	2,718	71	686	557	6
	6	3,733	39	2	0	2,410	83	694	499	6
	7	3,956	37	3	0	2,621	78	685	524	6
	8	4,007	29	2	0	2,722	61	678	508	7
	9	3,859	30	3	0	2,593	63	668	495	6
	10	4,103	35	3	0	2,867	46	642	504	5
	11	4,123	38	3	0	2,890	38	665	484	6
	12	4,932	36	2	0	3,521	38	766	561	8
2022 <sup>p</sup>	1	4,692	34	-	1	3,430	40	723	456	8
	2	4,218	28	-	-	2,980	36	683	485	5
	3	4,313	36	-	-	2,954	45	751	522	6
	4	4,235	36	-	-	2,851	44	741	556	6
	5	4,478	34	-	-	3,112	52	747	527	6
	6	4,398	34	-	-	3,137	60	715	447	6
	7	4,515	32	-	-	3,271	85	718	403	6
	8	4,862	29	-	-	3,474	148	701	504	7
	9	4,353	29	-	1	3,002	104	693	518	6
2021 <sup>p</sup>	1-9	36,266	315	47	4	24,379	529	6,185	4,748	59
2022 <sup>p</sup>	1-9	40,064	292	-	2	28,209	614	6,471	4,418	58

1. 무연탄

2. 동해-1 가스전 생산량(2021년 12월 31일 생산 종료)

3. 원유 및 정제원료

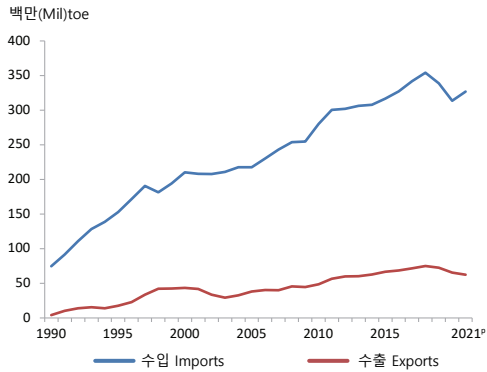
1. Anthracite

2. Production at Donghae-1 gas field (End of production on December 31, 2021).

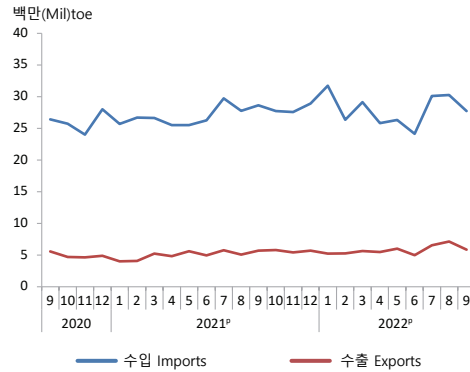
3. Crude oil and refinery feedstocks

## ● 에너지 수출입 Energy Imports and Exports

〈1990~2021<sup>o</sup>〉

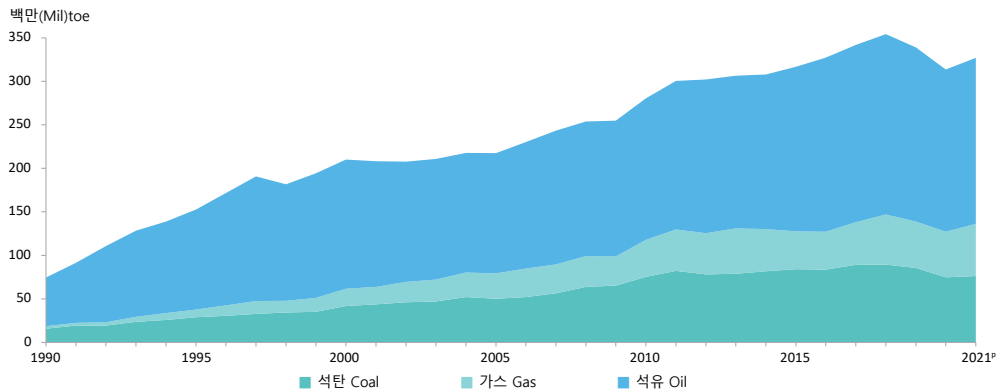


〈월별 Monthly〉

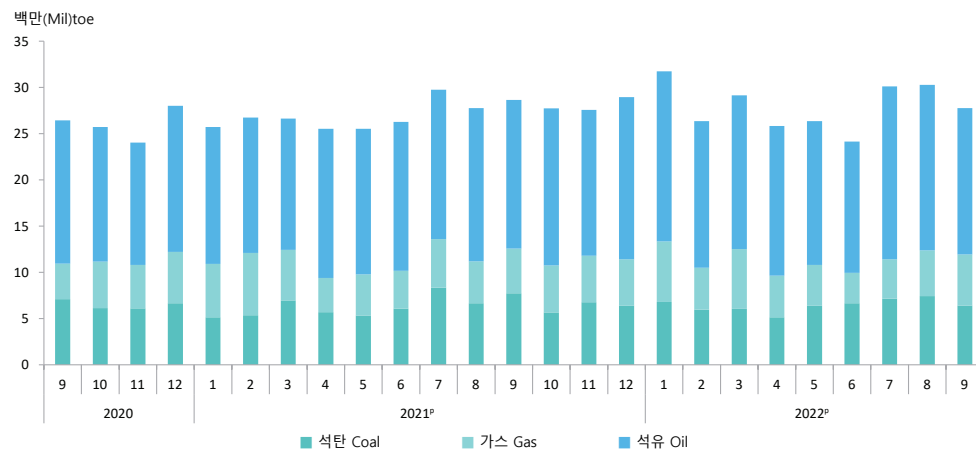


## ● 에너지원별 수입 Energy Imports by Source

〈1990~2021<sup>o</sup>〉



〈월별 Monthly〉



## 1.3 에너지 수출입

## Energy Imports and Exports

		수입 Imports				수출 Exports			순수입 Net imports (A-B)
		합계(A) Total	석탄 Coal	가스 <sup>1</sup> Gas <sup>1</sup>	석유 <sup>2</sup> Oil <sup>2</sup>	합계(B) Total	석탄 <sup>3</sup> Coal <sup>3</sup>	석유 <sup>2</sup> Oil <sup>2</sup>	
		1,000 toe							
1990		74,609	15,832	2,909	55,869	4,002	5	3,997	70,607
1995		152,794	28,942	8,782	115,069	17,784	4	17,780	135,010
2000		210,191	41,943	19,811	148,438	43,507	3	43,504	166,684
2001		208,280	43,822	19,913	144,545	41,898	1	41,898	166,381
2002		207,799	46,058	23,390	138,350	33,547	1	33,546	174,252
2003		210,798	47,109	25,101	138,589	29,227	1	29,225	181,572
2004		217,781	51,995	28,316	137,470	32,641	7	32,633	185,140
2005		217,485	50,266	29,013	138,206	38,089	12	38,077	179,396
2006		230,063	52,053	32,832	145,177	40,263	9	40,254	189,800
2007		243,215	56,340	33,240	153,636	40,064	9	40,055	203,151
2008		253,725	63,723	35,436	154,566	45,589	26	45,563	208,136
2009		254,840	65,216	33,568	156,056	44,631	4	44,627	210,209
2010		280,301	75,340	42,384	162,577	48,576	8	48,567	231,726
2011		300,431	82,125	47,690	170,617	56,549	41	56,508	243,882
2012		302,068	78,261	47,184	176,623	59,863	20	59,843	242,204
2013		306,376	78,923	51,998	175,455	60,319	40	60,280	246,057
2014		307,856	81,782	48,388	177,686	62,805	28	62,777	245,050
2015		316,750	84,123	43,509	189,118	66,737	12	66,726	250,013
2016		327,086	83,621	43,623	199,842	68,510	1	68,510	258,576
2017		341,836	89,227	49,023	203,586	71,508	86	71,422	270,328
2018		354,196	89,484	57,484	207,227	74,878	47	74,831	279,318
2019		338,899	85,586	53,217	200,097	72,526	12	72,514	266,374
2020		313,504	74,875	52,217	186,412	65,399	110	65,288	248,106
2021 <sup>p</sup>		326,866	76,172	59,987	190,707	62,369	217	62,152	264,497
2020	9	26,430	7,114	3,833	15,483	5,604	10	5,595	20,826
	10	25,735	6,131	5,026	14,578	4,715	0	4,715	21,020
	11	24,033	6,124	4,678	13,231	4,669	4	4,665	19,364
	12	28,016	6,664	5,560	15,793	4,919	0	4,919	23,097
2021 <sup>p</sup>	1	25,710	5,146	5,777	14,787	4,017	0	4,017	21,694
	2	26,730	5,363	6,738	14,629	4,105	14	4,092	22,625
	3	26,639	6,957	5,477	14,204	5,240	14	5,227	21,398
	4	25,528	5,694	3,704	16,130	4,853	48	4,806	20,675
	5	25,540	5,350	4,429	15,760	5,630	61	5,569	19,909
	6	26,278	6,090	4,089	16,098	4,977	19	4,957	21,301
	7	29,747	8,337	5,249	16,160	5,779	17	5,762	23,967
	8	27,779	6,661	4,541	16,578	5,087	16	5,071	22,692
	9	28,651	7,748	4,835	16,067	5,711	17	5,694	22,939
	10	27,744	5,663	5,089	16,992	5,812	10	5,801	21,933
	11	27,574	6,779	5,023	15,773	5,440	0	5,440	22,134
	12	28,946	6,383	5,035	17,528	5,717	0	5,717	23,230
2022 <sup>p</sup>	1	31,730	6,807	6,529	18,394	5,235	19	5,216	26,495
	2	26,357	5,962	4,537	15,857	5,275	0	5,275	21,082
	3	29,145	6,055	6,468	16,622	5,664	0	5,664	23,481
	4	25,828	5,159	4,495	16,174	5,511	0	5,511	20,317
	5	26,347	6,379	4,420	15,549	6,035	0	6,035	20,312
	6	24,154	6,675	3,285	14,194	4,996	0	4,996	19,158
	7	30,113	7,165	4,247	18,701	6,554	0	6,554	23,559
	8	30,280	7,440	4,947	17,893	7,140	0	7,140	23,140
	9	27,761	6,428	5,507	15,825	5,874	0	5,874	21,887
2021 <sup>p</sup>	1-9	242,600	57,347	44,840	140,414	45,400	206	45,194	197,200
2022 <sup>p</sup>	1-9	251,716	58,071	44,435	149,210	52,283	20	52,264	199,432

1. 천연가스

2. 원유 및 정제원료, 석유제품

3. 코크스 등 석탄 및 석탄제품

자료: 한국무역협회, 한국석유공사-PEDSIS

1. Natural gas

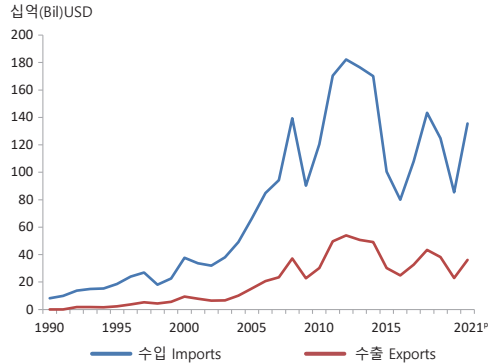
2. Crude oil, refinery feedstocks and petroleum products

3. Coal and coal products including coke oven coke

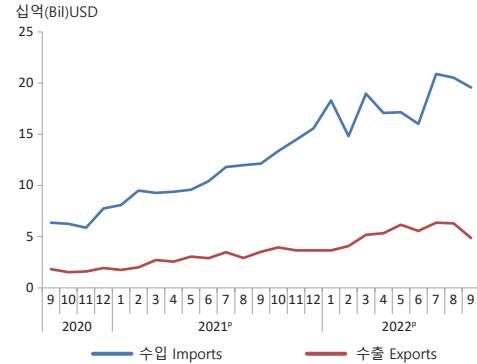
Source: Korea International Trade Association, Korea National Oil Corporation-PEDSIS

## ● 에너지 수출입액 Energy Import and Export Values

〈1990~2021<sup>o</sup>〉

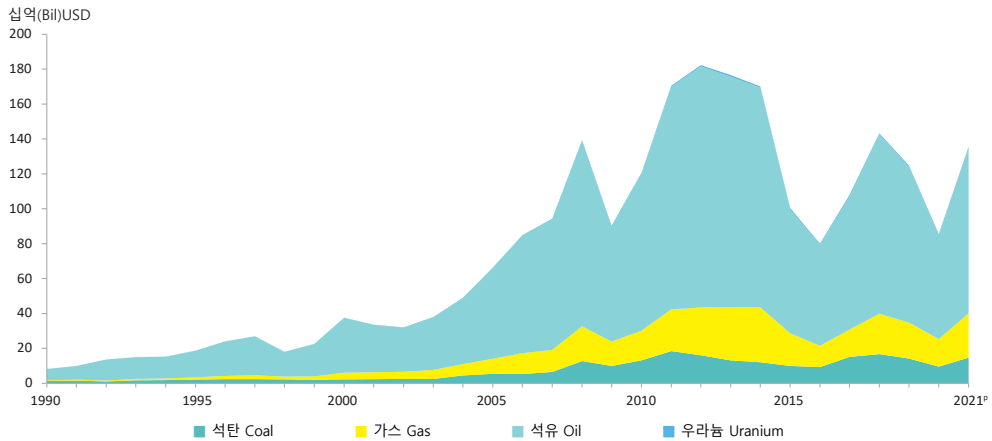


〈월별 Monthly〉

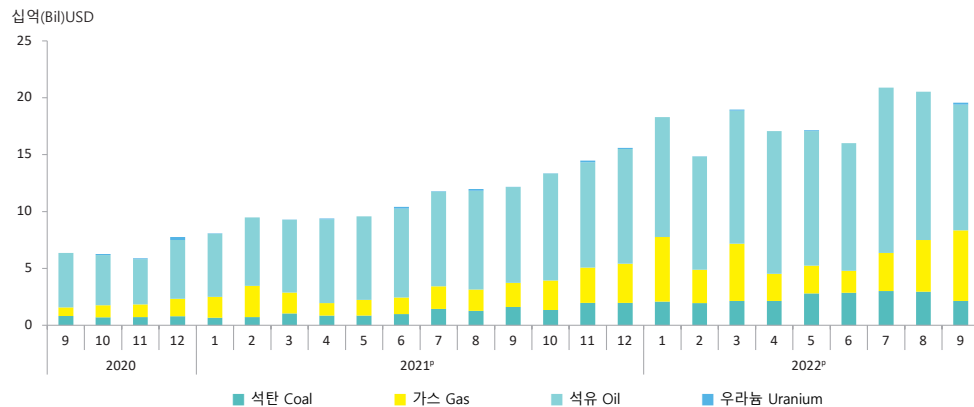


## ● 에너지원별 수입액 Import Value by Energy Source

〈1990~2021<sup>o</sup>〉



〈월별 Monthly〉



## 1.4 에너지 수출입액

## Energy Trade Value

		수입 Imports					수출 Exports			수입액 비중
		합계 Total	석탄 Coal	가스 <sup>1</sup> Gas <sup>1</sup>	석유 <sup>2</sup> Oil <sup>2</sup>	우라늄 Uranium	합계 Total	석탄 <sup>3</sup> Coal <sup>3</sup>	석유 <sup>2</sup> Oil <sup>2</sup>	Energy/Total imports
				Mil USD					%	
1990		8,209	1,288	460	6,462	-	1	1	-	11.8
1995		18,670	2,108	1,275	15,265	22	2,314	1	2,313.2	13.8
2000		37,622	2,186	3,882	31,416	138	9,381	0	9,381.0	23.4
2001		33,652	2,347	3,990	27,097	218	7,784	0	7,783.4	23.9
2002		31,997	2,475	4,120	25,140	262	6,455	0	6,454.3	21.0
2003		37,982	2,552	5,082	30,104	243	6,654	0	6,653.4	21.2
2004		49,075	4,438	6,552	37,770	315	10,175	2	10,173.2	21.9
2005		66,238	5,443	8,646	51,883	265	15,366	2	15,364.0	25.4
2006		84,905	5,318	11,925	67,352	311	20,603	1	20,601.9	27.4
2007		94,306	6,445	12,653	74,762	446	23,482	1	23,480.6	26.4
2008		139,288	12,800	19,806	106,015	667	37,184	8	37,176.8	32.0
2009		90,259	9,995	13,875	65,706	684	22,721	1	22,720.0	27.9
2010		120,478	13,131	17,006	89,777	564	30,196	2	30,193.9	28.3
2011		170,497	18,477	23,859	127,413	748	49,608	24	49,583.8	32.5
2012		182,252	16,069	27,364	138,183	635	54,045	6	54,039.1	35.1
2013		176,561	13,074	30,645	131,866	976	50,758	16	50,741.8	34.2
2014		170,117	12,114	31,403	125,912	688	49,102	10	49,091.3	32.4
2015		100,440	9,961	18,779	70,883	817	30,206	4	30,201.4	23.0
2016		79,953	9,310	12,170	57,937	536	24,807	1	24,806.3	19.7
2017		107,921	15,179	15,616	76,185	941	32,676	23	32,653.6	22.6
2018		143,285	16,703	23,189	102,856	538	43,367	21	43,345.6	26.8
2019		124,777	14,209	20,567	89,295	707	38,271	4	38,267.4	24.8
2020		85,444	9,596	15,716	59,406	725	22,958	35	22,922.4	18.3
2021 <sup>P</sup>		135,555	14,699	25,453	94,659	744	36,175	124	36,050.9	22.0
2020	9	6,363	807	773	4,783	0	1,821	3	1,818	16.1
	10	6,259	707	1,061	4,397	94	1,539	0	1,539	16.0
	11	5,881	719	1,118	3,973	71	1,609	1	1,608	14.7
	12	7,749	801	1,526	5,169	253	1,938	0	1,938	17.4
2021 <sup>P</sup>	1	8,085	660	1,830	5,552	42	1,758	0	1,758	18.2
	2	9,488	718	2,742	6,028	0	2,004	9	1,996	22.4
	3	9,265	1,036	1,839	6,390	0	2,718	8	2,710	18.6
	4	9,381	860	1,093	7,353	74	2,556	29	2,527	18.4
	5	9,577	843	1,384	7,350	0	3,046	34	3,012	20.0
	6	10,415	991	1,443	7,816	165	2,898	12	2,887	20.7
	7	11,797	1,431	2,002	8,314	50	3,469	10	3,458	22.0
	8	11,979	1,274	1,860	8,701	143	2,920	4	2,915	23.2
	9	12,146	1,616	2,114	8,414	1	3,533	10	3,522	23.5
	10	13,365	1,338	2,606	9,389	32	3,950	6	3,943	24.8
	11	14,472	1,965	3,098	9,257	153	3,665	0	3,665	25.2
	12	15,587	1,967	3,441	10,094	84	3,657	0	3,657	25.5
2022 <sup>P</sup>	1	18,297	2,074	5,690	10,533	0	3,646	14	3,633	30.3
	2	14,832	1,948	2,932	9,951	0	4,092	0	4,092	27.8
	3	18,965	2,138	5,034	11,687	106	5,184	0	5,184	29.7
	4	17,074	2,133	2,396	12,546	0	5,342	0	5,342	28.4
	5	14,696	2,794	0	11,832	69	6,171	0	6,171	23.3
	6	14,097	2,863	0	11,234	0	5,561	0	5,561	23.4
	7	17,532	3,005	0	14,528	0	6,374	0	6,374	26.8
	8	15,986	2,959	0	13,026	0	6,301	0	6,301	24.2
	9	13,359	2,148	0	11,044	168	4,873	0	4,873	21.9
2021 <sup>P</sup>	1-9	92,131	9,430	16,308	65,919	475	24,903	117	24,786	20.8
2022 <sup>P</sup>	1-9	144,838	22,063	16,052	106,382	342	47,543	15	47,529	26.2

1. 천연가스

2. 원유 및 정제원료, 석유제품

3. 코크스 등 석탄 및 석탄제품

자료: 한국무역협회, 한국석유공사-PEDSIS

1. Natural gas

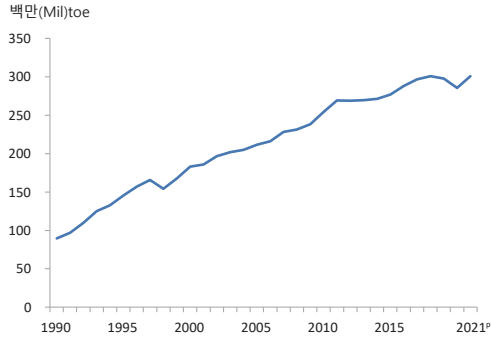
2. Crude oil, refinery feedstocks and petroleum products

3. Coal and coal products including coke oven coke

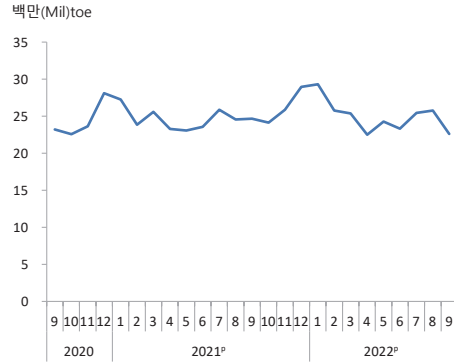
Source: Korea International Trade Association, Korea National Oil Corporation-PEDSIS

## ● 일차에너지 공급 Total Primary Energy Supply

〈1990~2021<sup>o</sup>〉

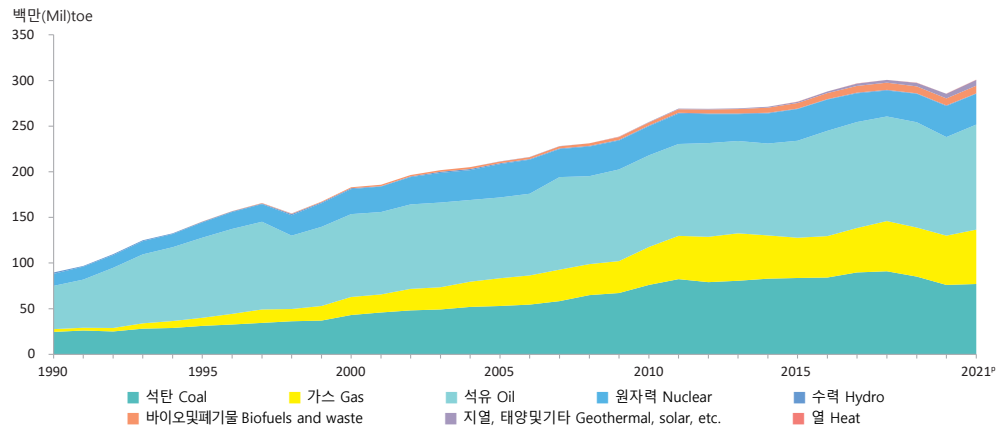


〈월별 Monthly〉

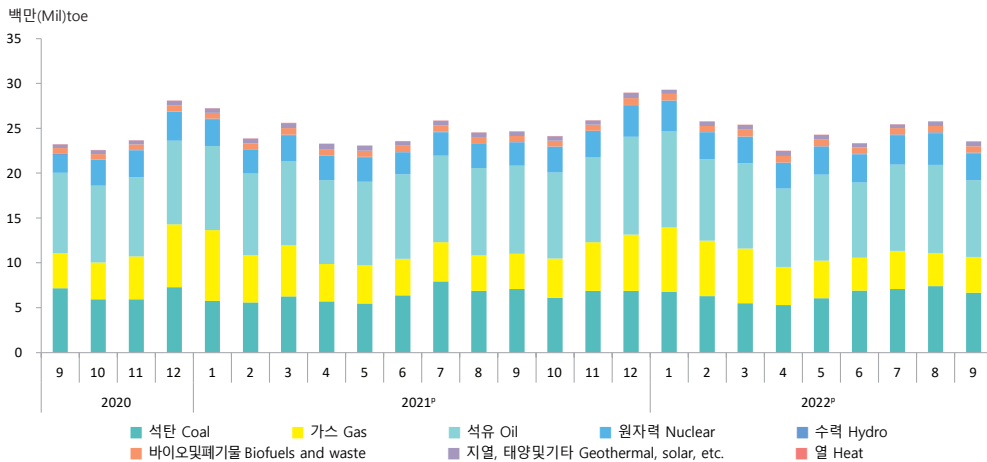


## ● 에너지원별 일차에너지 공급 Total Primary Energy Supply by Source

〈1990~2021<sup>o</sup>〉



〈월별 Monthly〉





## 1.5 일차에너지공급

## Total Primary Energy Supply

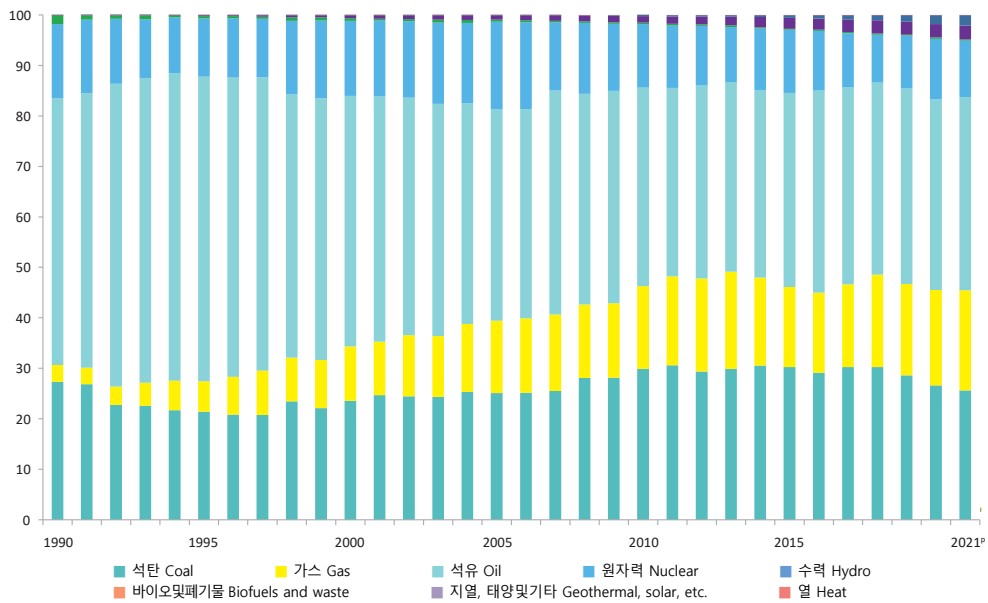
		합계 Total	석탄 Coal	가스 Gas	석유 Oil	원자력 Nuclear	수력 Hydro	바이오및폐기물 Biofuels and waste	지열, 태양및기타 Geothermal, solar, etc.	열 <sup>1</sup> Heat <sup>1</sup>
		1,000 toe								
1990		89,680	24,523	2,958	47,387	13,222	1,571	6	10	3
1995		145,470	31,173	8,704	87,804	16,757	690	315	23	3
2000		183,078	43,143	19,743	90,804	27,241	1,002	1,088	47	10
2001		185,809	45,838	19,722	90,213	28,033	582	1,366	42	13
2002		196,452	47,987	23,797	92,515	29,776	808	1,516	40	14
2003		201,738	49,135	24,272	92,871	32,418	1,226	1,754	41	20
2004		205,220	51,886	27,827	89,676	32,679	1,082	1,999	52	19
2005		211,344	52,975	30,367	88,431	36,695	919	1,873	73	12
2006		216,182	54,361	31,945	89,590	37,187	867	2,108	107	17
2007		228,144	58,149	34,681	101,219	30,731	781	2,433	137	14
2008		231,288	64,925	33,781	96,511	32,456	660	2,718	199	38
2009		238,416	67,094	35,138	100,303	31,771	616	3,104	343	49
2010		254,399	76,008	41,681	100,177	31,948	797	3,274	499	16
2011		269,223	82,386	47,341	100,622	33,265	989	3,881	602	135
2012		268,993	79,059	49,554	102,833	31,719	838	4,245	622	124
2013		269,531	80,538	51,943	101,306	29,283	906	4,631	811	113
2014		271,252	82,764	47,409	100,792	33,002	581	5,585	1,051	68
2015		276,793	83,650	43,958	106,386	34,765	454	6,011	1,444	125
2016		288,018	83,989	45,524	115,343	34,181	603	6,447	1,814	117
2017		296,719	89,786	48,564	116,067	31,615	601	7,532	2,426	127
2018		300,738	90,965	55,090	114,450	28,437	719	7,985	3,024	68
2019		297,608	85,048	53,871	115,408	31,079	594	7,601	3,940	66
2020		285,544	75,983	53,947	107,970	34,119	826	7,479	5,146	73
2021 <sup>p</sup>		300,617	76,968	59,622	115,087	33,657	651	8,257	6,297	77
2020	9	23,222	7,173	3,907	8,967	1,979	134	629	426	6
	10	22,577	5,927	4,123	8,546	2,869	49	607	451	5
	11	23,643	5,947	4,779	8,814	2,992	43	624	437	5
	12	28,085	7,286	7,021	9,322	3,208	41	709	490	8
2021 <sup>p</sup>	1	27,234	5,768	7,879	9,388	2,991	41	670	489	8
	2	23,843	5,594	5,281	9,065	2,712	36	638	512	5
	3	25,594	6,252	5,736	9,307	2,939	43	735	573	6
	4	23,283	5,704	4,156	9,372	2,673	50	730	591	7
	5	23,078	5,481	4,224	9,335	2,718	71	686	557	6
	6	23,569	6,387	4,058	9,432	2,410	83	694	499	6
	7	25,863	7,942	4,359	9,648	2,621	78	685	524	6
	8	24,542	6,866	3,977	9,724	2,722	61	678	508	7
	9	24,652	7,096	3,912	9,818	2,593	63	668	495	6
	10	24,125	6,119	4,366	9,576	2,867	46	642	504	5
	11	25,885	6,873	5,412	9,517	2,890	38	665	484	6
	12	28,949	6,886	6,263	10,906	3,521	38	766	561	8
2022 <sup>p</sup>	1	29,296	6,791	7,145	10,703	3,430	40	723	456	8
	2	25,760	6,284	6,199	9,088	2,980	36	683	485	5
	3	25,368	5,502	6,094	9,496	2,954	45	751	522	6
	4	22,493	5,297	4,235	8,762	2,851	44	741	556	6
	5	24,272	6,061	4,200	9,567	3,112	52	747	527	6
	6	23,317	6,915	3,643	8,395	3,137	60	715	447	6
	7	25,445	7,091	4,238	9,633	3,271	85	718	403	6
	8	25,761	7,403	3,702	9,823	3,474	148	701	504	7
	9	23,529	6,665	3,978	8,562	3,002	104	693	518	6
2021 <sup>p</sup>	1-9	221,659	57,090	43,581	85,088	24,379	529	6,185	4,748	59
2022 <sup>p</sup>	1-9	225,241	58,009	43,433	84,030	28,209	614	6,471	4,418	58

1. 지역난방이 아닌 상용자가업체 열생산량을 의미

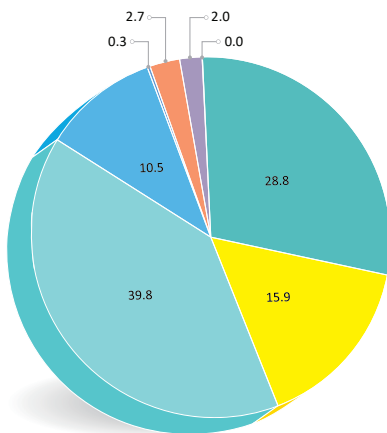
1. Heat production by autoproducer plants

● 일차에너지 원별 구성비 Shares of Energy Sources in Total Primary Energy Supply (%)

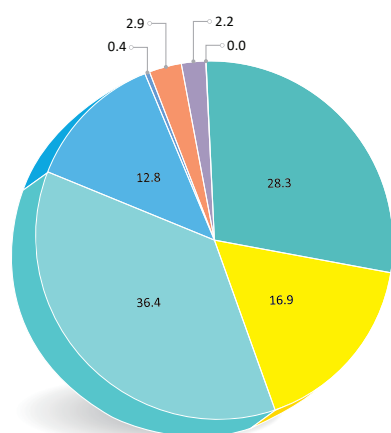
<1990~2021<sup>p</sup>>



● 2021년 9월 September 2021<sup>p</sup>(%)



● 2022년 9월 September 2022<sup>p</sup>(%)



## 1.6 일차에너지공급 원별 구성비 Shares of Energy Sources in Total Primary Energy Supply

		합계	석탄	가스	석유	원자력	수력	바이오및폐기물	지열,태양및기타	열 <sup>1</sup>
		Total	Coal	Gas	Oil	Nuclear	Hydro	Biofuels and waste	Geothermal, solar, etc.	Heat <sup>1</sup>
		%								
1990		100.0	27.3	3.3	52.8	14.7	1.8	0.0	0.0	0.0
1995		100.0	21.4	6.0	60.4	11.5	0.5	0.2	0.0	0.0
2000		100.0	23.6	10.8	49.6	14.9	0.5	0.6	0.0	0.0
2001		100.0	24.7	10.6	48.6	15.1	0.3	0.7	0.0	0.0
2002		100.0	24.4	12.1	47.1	15.2	0.4	0.8	0.0	0.0
2003		100.0	24.4	12.0	46.0	16.1	0.6	0.9	0.0	0.0
2004		100.0	25.3	13.6	43.7	15.9	0.5	1.0	0.0	0.0
2005		100.0	25.1	14.4	41.8	17.4	0.4	0.9	0.0	0.0
2006		100.0	25.1	14.8	41.4	17.2	0.4	1.0	0.0	0.0
2007		100.0	25.5	15.2	44.4	13.5	0.3	1.1	0.1	0.0
2008		100.0	28.1	14.6	41.7	14.0	0.3	1.2	0.1	0.0
2009		100.0	28.1	14.7	42.1	13.3	0.3	1.3	0.1	0.0
2010		100.0	29.9	16.4	39.4	12.6	0.3	1.3	0.2	0.0
2011		100.0	30.6	17.6	37.4	12.4	0.4	1.4	0.2	0.1
2012		100.0	29.4	18.4	38.2	11.8	0.3	1.6	0.2	0.0
2013		100.0	29.9	19.3	37.6	10.9	0.3	1.7	0.3	0.0
2014		100.0	30.5	17.5	37.2	12.2	0.2	2.1	0.4	0.0
2015		100.0	30.2	15.9	38.4	12.6	0.2	2.2	0.5	0.0
2016		100.0	29.2	15.8	40.0	11.9	0.2	2.2	0.6	0.0
2017		100.0	30.3	16.4	39.1	10.7	0.2	2.5	0.8	0.0
2018		100.0	30.2	18.3	38.1	9.5	0.2	2.7	1.0	0.0
2019		100.0	28.6	18.1	38.8	10.4	0.2	2.6	1.3	0.0
2020		100.0	26.6	18.9	37.8	11.9	0.3	2.6	1.8	0.0
2021 <sup>P</sup>		100.0	25.6	19.8	38.3	11.2	0.2	2.7	2.1	0.0
2020	9	100.0	30.9	16.8	38.6	8.5	0.6	2.7	1.8	0.0
	10	100.0	26.3	18.3	37.9	12.7	0.2	2.7	2.0	0.0
	11	100.0	25.2	20.2	37.3	12.7	0.2	2.6	1.8	0.0
	12	100.0	25.9	25.0	33.2	11.4	0.1	2.5	1.7	0.0
2021 <sup>P</sup>	1	100.0	21.2	28.9	34.5	11.0	0.2	2.5	1.8	0.0
	2	100.0	23.5	22.1	38.0	11.4	0.2	2.7	2.1	0.0
	3	100.0	24.4	22.4	36.4	11.5	0.2	2.9	2.2	0.0
	4	100.0	24.5	17.8	40.3	11.5	0.2	3.1	2.5	0.0
	5	100.0	23.8	18.3	40.4	11.8	0.3	3.0	2.4	0.0
	6	100.0	27.1	17.2	40.0	10.2	0.4	2.9	2.1	0.0
	7	100.0	30.7	16.9	37.3	10.1	0.3	2.7	2.0	0.0
	8	100.0	28.0	16.2	39.6	11.1	0.3	2.8	2.1	0.0
	9	100.0	28.8	15.9	39.8	10.5	0.3	2.7	2.0	0.0
	10	100.0	25.4	18.1	39.7	11.9	0.2	2.7	2.1	0.0
	11	100.0	26.6	20.9	36.8	11.2	0.1	2.6	1.9	0.0
	12	100.0	23.8	21.6	37.7	12.2	0.1	2.6	1.9	0.0
2022 <sup>P</sup>	1	100.0	23.2	24.4	36.5	11.7	0.1	2.5	1.6	0.0
	2	100.0	24.4	24.1	35.3	11.6	0.1	2.7	1.9	0.0
	3	100.0	21.7	24.0	37.4	11.6	0.2	3.0	2.1	0.0
	4	100.0	23.6	18.8	39.0	12.7	0.2	3.3	2.5	0.0
	5	100.0	25.0	17.3	39.4	12.8	0.2	3.1	2.2	0.0
	6	100.0	29.7	15.6	36.0	13.5	0.3	3.1	1.9	0.0
	7	100.0	27.9	16.7	37.9	12.9	0.3	2.8	1.6	0.0
	8	100.0	28.7	14.4	38.1	13.5	0.6	2.7	2.0	0.0
	9	100.0	28.3	16.9	36.4	12.8	0.4	2.9	2.2	0.0
2021 <sup>P</sup>	1-9	100.0	25.4	20.0	38.3	11.1	0.2	2.8	2.2	0.0
2022 <sup>P</sup>	1-9	100.0	25.8	19.1	37.3	12.6	0.3	2.9	2.0	0.0

1. 상용자가업체 열생산량을 의미

1. Heat production by autoproducer plants



## 2. 최종소비

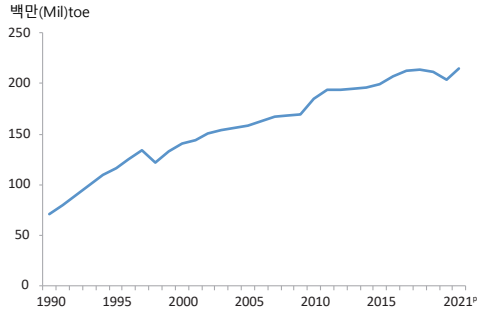
### Total Final Consumption

- 2.1 원별 최종소비  
Total Final Consumption by Sources
- 2.2 원별 최종소비 구성비  
Shares of Energy Sources in Total Final Consumption
- 2.3 부문별 최종소비  
Total Final Consumption by Sector
  - 2.3.1 산업  
Industry
  - 2.3.2 수송  
Transport
  - 2.3.3 가정  
Residential
  - 2.3.4 상업·공공  
Commercial & Public
- 2.4 사용 용도별 최종소비  
Total Final Consumption by Energy Use

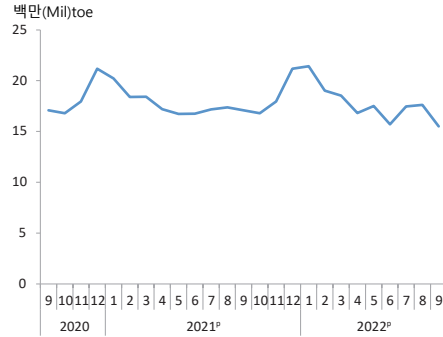


## ● 최종소비 Total Final Consumption

<1990~2021<

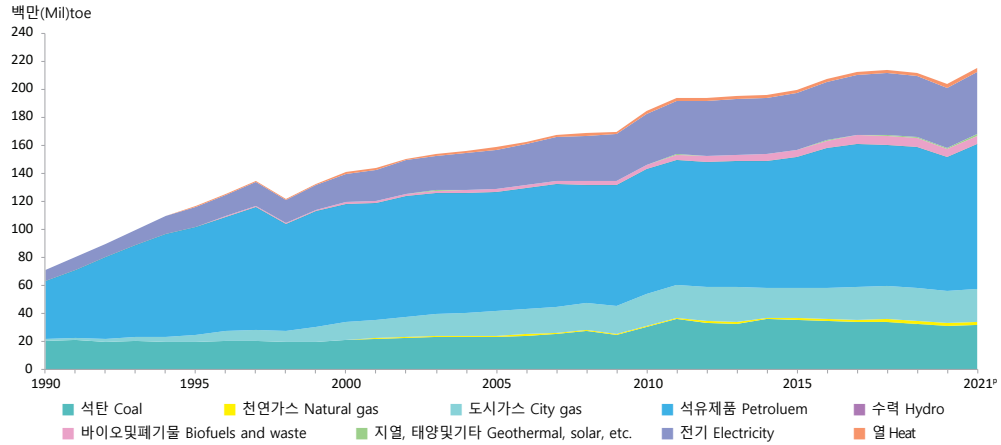


<월별 Monthly>

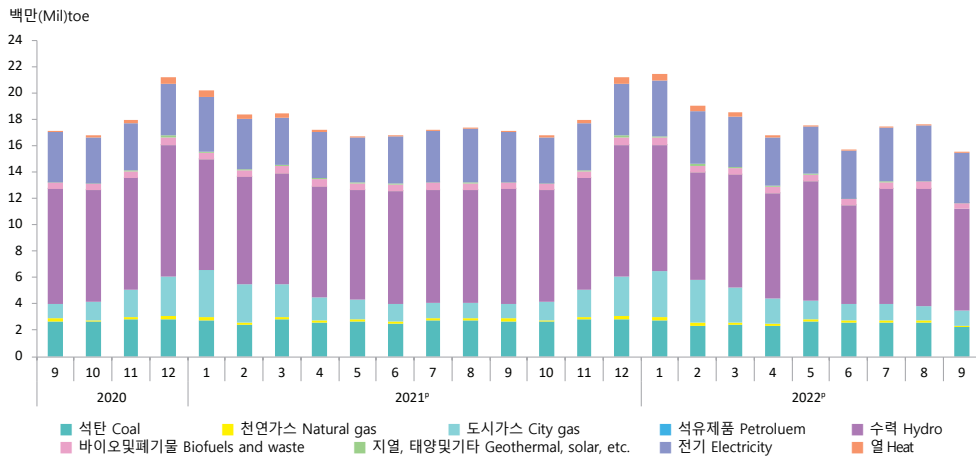


## ● 에너지원별 최종소비 Total Final Consumption by Sources

<1990~2021<



<월별 Monthly>



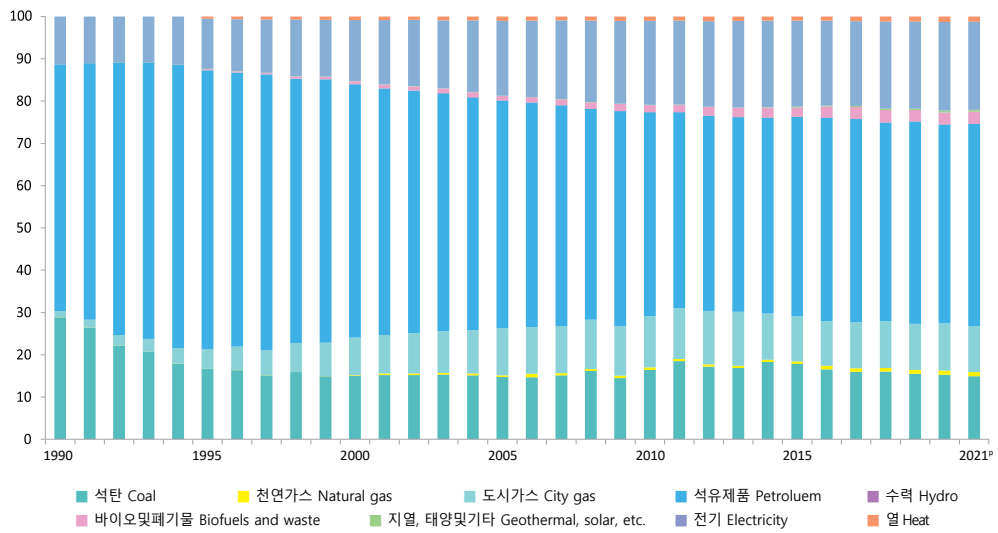
## 2.1 원별 최종소비

## Total Final Consumption by Sources

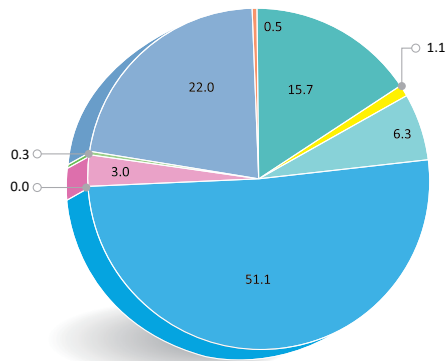
		합계 Total	석탄 Coal	천연가스 Natural gas	도시가스 City gas	석유제품 Petroleum	수력 Hydro	바이오및폐기물 Biofuels and waste	지열,태양및기타 Geothermal, solar, etc.	전기 Electricity	열 Heat
		1,000 toe									
1990		71,150	20,528	5	1,012	41,592	-	6	10	7,997	-
1995		116,508	19,422	12	5,452	76,815	-	315	23	13,832	637
2000		140,966	21,217	207	12,510	84,410	-	1,088	45	20,273	1,217
2001		143,589	21,788	569	13,031	83,761	-	1,364	39	21,822	1,217
2002		150,381	22,827	623	14,305	86,296	-	1,487	37	23,584	1,224
2003		153,972	23,607	595	15,212	86,607	4	1,720	36	24,796	1,395
2004		155,678	23,511	765	15,912	85,687	5	1,954	42	26,353	1,449
2005		158,478	23,382	632	17,672	85,208	0	1,818	42	28,072	1,652
2006		162,528	23,908	1,318	17,963	86,256	0	2,059	48	29,427	1,549
2007		167,225	25,295	838	18,599	87,401	0	2,354	53	31,108	1,576
2008		168,469	27,283	714	19,632	84,046	0	2,596	63	32,467	1,669
2009		169,567	24,578	975	19,810	86,250	11	2,919	75	33,235	1,715
2010		184,581	30,381	996	22,361	89,023	5	3,175	93	36,595	1,953
2011		193,726	35,815	999	23,288	89,740	0	3,488	117	38,325	1,954
2012		193,771	33,336	1,060	24,464	89,418	0	3,999	146	39,264	2,085
2013		195,292	32,912	1,041	24,972	89,885	1	4,299	190	39,943	2,049
2014		195,889	35,813	1,018	21,488	90,741	1	4,531	256	40,103	1,938
2015		199,347	35,569	1,129	21,305	93,977	1	4,507	322	40,630	1,905
2016		207,553	34,370	1,797	21,928	99,827	3	5,455	406	41,692	2,075
2017		212,444	33,927	1,832	23,122	102,098	2	6,031	534	42,599	2,300
2018		214,001	34,297	1,773	23,793	100,411	3	6,397	643	44,148	2,535
2019		211,733	32,887	1,932	23,094	101,189	1	5,751	757	43,649	2,471
2020		203,758	31,138	2,108	22,632	95,850	0	5,826	842	42,768	2,592
2021 <sup>p</sup>		215,277	32,168	2,105	23,382	102,957	0	6,264	878	44,808	2,714
2020	9	16,059	2,641	159	1,105	7,752	0	485	49	3,794	72
	10	15,821	2,666	142	1,396	7,694	0	460	49	3,274	141
	11	16,769	2,608	175	2,025	7,688	0	482	75	3,454	262
	12	19,498	2,910	182	3,052	8,427	0	557	112	3,785	472
2021 <sup>p</sup>	1	20,220	2,770	185	3,613	8,349	0	532	115	4,107	550
	2	18,393	2,428	152	2,936	8,097	0	485	98	3,807	389
	3	18,426	2,829	175	2,442	8,435	0	558	92	3,618	278
	4	17,189	2,538	169	1,811	8,381	0	539	71	3,519	162
	5	16,720	2,679	142	1,483	8,328	0	499	47	3,423	119
	6	16,750	2,510	182	1,265	8,586	0	530	57	3,527	93
	7	17,180	2,711	198	1,174	8,579	0	513	54	3,859	93
	8	17,385	2,755	191	1,123	8,556	0	511	52	4,115	81
	9	17,091	2,689	186	1,081	8,730	0	507	55	3,765	78
	10	16,791	2,630	120	1,382	8,476	0	477	53	3,512	140
	11	17,964	2,792	179	2,062	8,487	0	512	70	3,594	267
	12	21,167	2,837	225	3,010	9,954	0	601	114	3,963	464
2022 <sup>p</sup>	1	21,427	2,765	212	3,539	9,547	0	555	103	4,190	516
	2	19,025	2,344	197	3,280	8,164	0	503	91	3,999	446
	3	18,541	2,433	165	2,625	8,527	0	564	71	3,844	311
	4	16,814	2,307	150	1,939	7,975	0	537	72	3,674	160
	5	17,519	2,652	142	1,466	9,052	0	513	46	3,544	104
	6	15,705	2,564	187	1,263	7,410	0	532	47	3,618	86
	7	17,462	2,586	178	1,237	8,715	0	525	50	4,080	91
	8	17,622	2,545	194	1,124	8,882	0	512	55	4,221	89
	9	15,664	2,218	147	1,106	7,751	0	502	46	3,813	81
2021 <sup>p</sup>	1-9	159,354	23,909	1,580	16,927	76,041	0	4,674	641	33,739	1,843
2022 <sup>p</sup>	1-9	159,779	22,415	1,571	17,580	76,023	0	4,744	581	34,982	1,884

### ● 최종소비 원별 구성비 Composition Rate of Total Final Consumption(%)

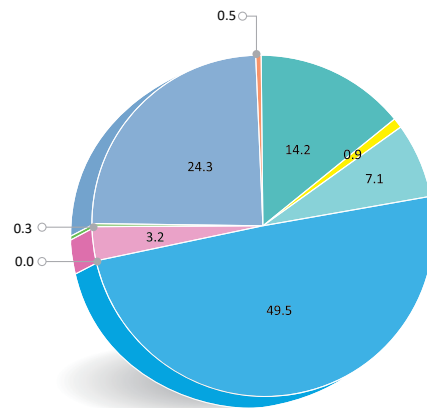
<1990~2021<sup>p</sup>>



### ● 2021년 9월 September 2021<sup>p</sup>(%)



### ● 2022년 9월 September 2022<sup>p</sup>(%)





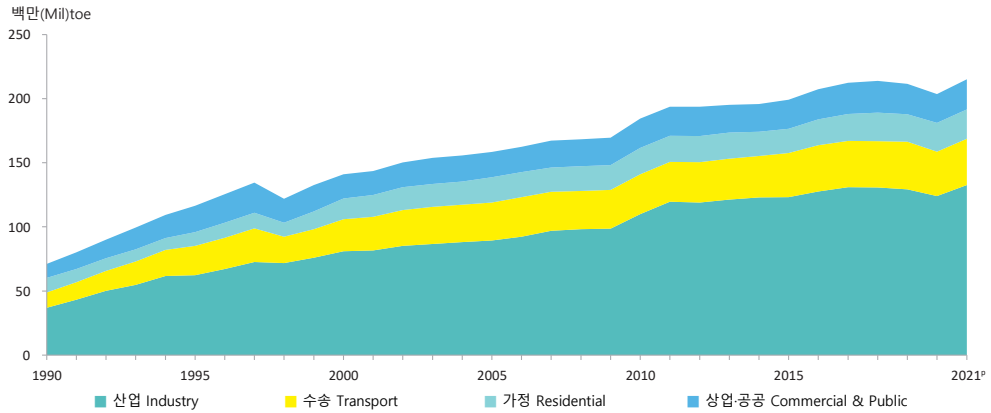
## 2.2 원별 최종소비 구성비

## Shares of Energy Sources in Total Final Consumption

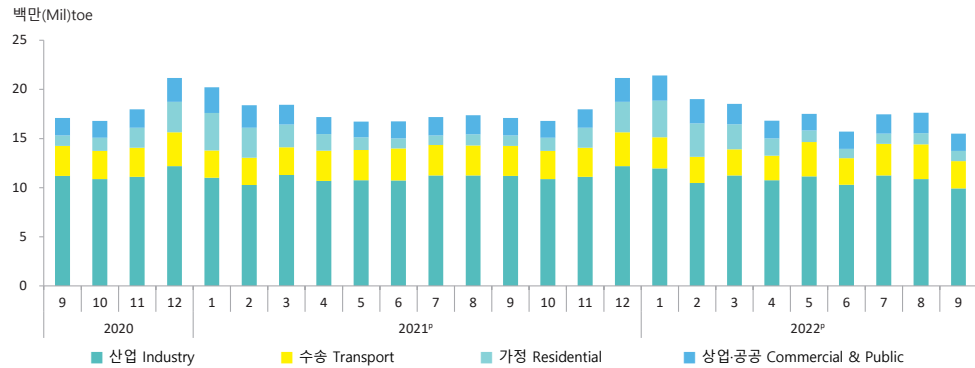
		합계	석탄	천연가스	도시가스	석유제품	수력	바이오및폐기물	지열,태양및기타	전기	열
		Total	Coal	Natural gas	City gas	Petroleum	Hydro	Biofuels and waste	Geothermal, solar, etc.	Electricity	Heat
		%									
1990		100.0	28.9	0.0	1.4	58.5	-	0.0	0.0	11.2	-
1995		100.0	16.7	0.0	4.7	65.9	-	0.3	0.0	11.9	0.5
2000		100.0	15.1	0.1	8.9	59.9	-	0.8	0.0	14.4	0.9
2001		100.0	15.2	0.4	9.1	58.3	-	0.9	0.0	15.2	0.8
2002		100.0	15.2	0.4	9.5	57.4	-	1.0	0.0	15.7	0.8
2003		100.0	15.3	0.4	9.9	56.2	0.0	1.1	0.0	16.1	0.9
2004		100.0	15.1	0.5	10.2	55.0	0.0	1.3	0.0	16.9	0.9
2005		100.0	14.8	0.4	11.2	53.8	0.0	1.1	0.0	17.7	1.0
2006		100.0	14.7	0.8	11.1	53.1	0.0	1.3	0.0	18.1	1.0
2007		100.0	15.1	0.5	11.1	52.3	0.0	1.4	0.0	18.6	0.9
2008		100.0	16.2	0.4	11.7	49.9	0.0	1.5	0.0	19.3	1.0
2009		100.0	14.5	0.6	11.7	50.9	0.0	1.7	0.0	19.6	1.0
2010		100.0	16.5	0.5	12.1	48.2	0.0	1.7	0.1	19.8	1.1
2011		100.0	18.5	0.5	12.0	46.3	0.0	1.8	0.1	19.8	1.0
2012		100.0	17.2	0.5	12.6	46.1	0.0	2.1	0.1	20.3	1.1
2013		100.0	16.9	0.5	12.8	46.0	0.0	2.2	0.1	20.5	1.0
2014		100.0	18.3	0.5	11.0	46.3	0.0	2.3	0.1	20.5	1.0
2015		100.0	17.8	0.6	10.7	47.1	0.0	2.3	0.2	20.4	1.0
2016		100.0	16.6	0.9	10.6	48.1	0.0	2.6	0.2	20.1	1.0
2017		100.0	16.0	0.9	10.9	48.1	0.0	2.8	0.3	20.1	1.1
2018		100.0	16.0	0.8	11.1	46.9	0.0	3.0	0.3	20.6	1.2
2019		100.0	15.5	0.9	10.9	47.8	0.0	2.7	0.4	20.6	1.2
2020		100.0	15.3	1.0	11.1	47.0	0.0	2.9	0.4	21.0	1.3
2021 <sup>P</sup>		100.0	14.9	1.0	10.9	47.8	0.0	2.9	0.4	20.8	1.3
2020	9	100.0	16.4	1.0	6.9	48.3	0.0	3.0	0.3	23.6	0.5
	10	100.0	16.9	0.9	8.8	48.6	0.0	2.9	0.3	20.7	0.9
	11	100.0	15.6	1.0	12.1	45.8	0.0	2.9	0.4	20.6	1.6
	12	100.0	14.9	0.9	15.7	43.2	0.0	2.9	0.6	19.4	2.4
2021 <sup>P</sup>	1	100.0	13.7	0.9	17.9	41.3	0.0	2.6	0.6	20.3	2.7
	2	100.0	13.2	0.8	16.0	44.0	0.0	2.6	0.5	20.7	2.1
	3	100.0	15.4	1.0	13.3	45.8	0.0	3.0	0.5	19.6	1.5
	4	100.0	14.8	1.0	10.5	48.8	0.0	3.1	0.4	20.5	0.9
	5	100.0	16.0	0.8	8.9	49.8	0.0	3.0	0.3	20.5	0.7
	6	100.0	15.0	1.1	7.6	51.3	0.0	3.2	0.3	21.1	0.6
	7	100.0	15.8	1.2	6.8	49.9	0.0	3.0	0.3	22.5	0.5
	8	100.0	15.8	1.1	6.5	49.2	0.0	2.9	0.3	23.7	0.5
	9	100.0	15.7	1.1	6.3	51.1	0.0	3.0	0.3	22.0	0.5
	10	100.0	15.7	0.7	8.2	50.5	0.0	2.8	0.3	20.9	0.8
	11	100.0	15.5	1.0	11.5	47.2	0.0	2.9	0.4	20.0	1.5
	12	100.0	13.4	1.1	14.2	47.0	0.0	2.8	0.5	18.7	2.2
2022 <sup>P</sup>	1	100.0	12.9	1.0	16.5	44.6	0.0	2.6	0.5	19.6	2.4
	2	100.0	12.3	1.0	17.2	42.9	0.0	2.6	0.5	21.0	2.3
	3	100.0	13.1	0.9	14.2	46.0	0.0	3.0	0.4	20.7	1.7
	4	100.0	13.7	0.9	11.5	47.4	0.0	3.2	0.4	21.8	1.0
	5	100.0	15.1	0.8	8.4	51.7	0.0	2.9	0.3	20.2	0.6
	6	100.0	16.3	1.2	8.0	47.2	0.0	3.4	0.3	23.0	0.5
	7	100.0	14.8	1.0	7.1	49.9	0.0	3.0	0.3	23.4	0.5
	8	100.0	14.4	1.1	6.4	50.4	0.0	2.9	0.3	24.0	0.5
	9	100.0	14.2	0.9	7.1	49.5	0.0	3.2	0.3	24.3	0.5
2021 <sup>P</sup>	1-9	100.0	15.0	1.0	10.6	47.7	0.0	2.9	0.4	21.2	1.2
2022 <sup>P</sup>	1-9	100.0	14.0	1.0	11.0	47.6	0.0	3.0	0.4	21.9	1.2

### ● 부문별 최종소비 Total Final Consumption by Sector

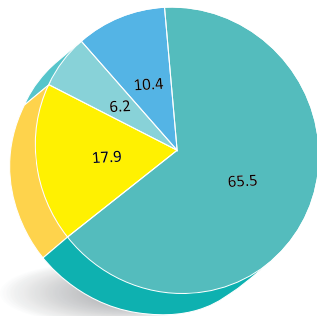
〈1990~2021<sup>p</sup>〉



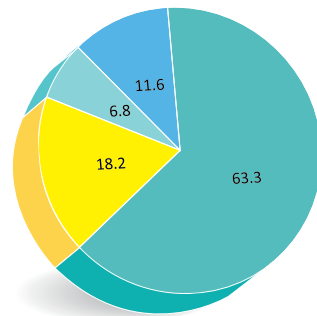
〈월별 Monthly〉



● 2021년 9월 September 2021<sup>p</sup>(%)



● 2022년 9월 September 2022<sup>p</sup>(%)

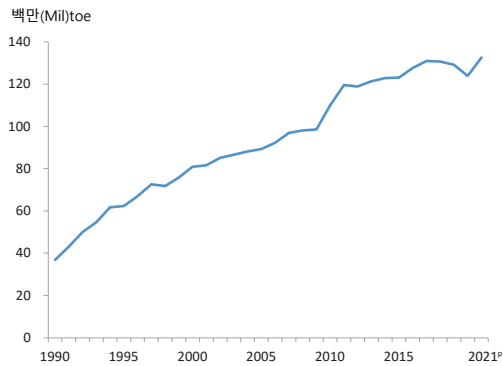


## 2.3 부문별 최종소비

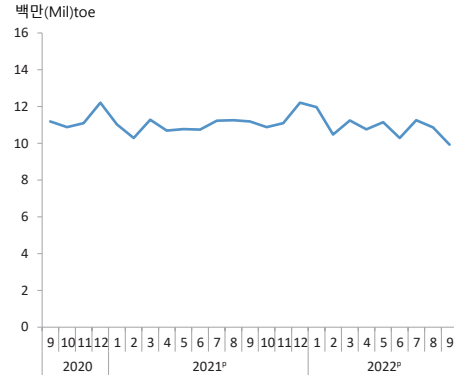
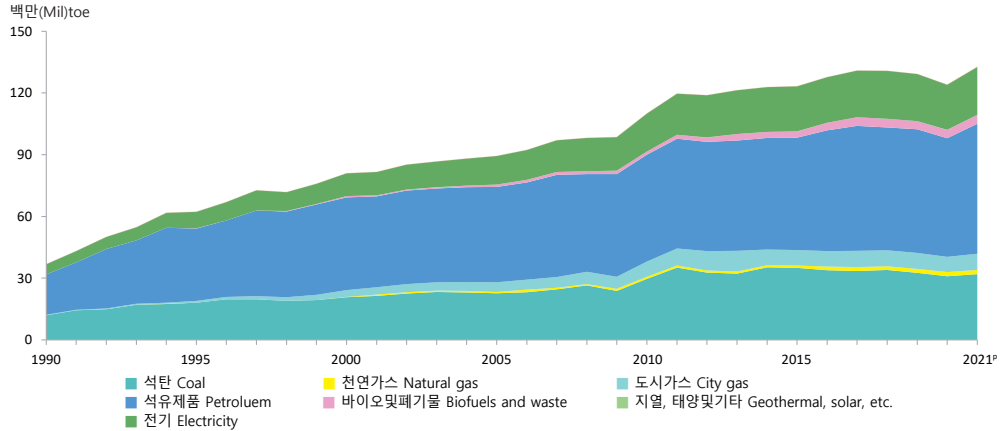
## Total Final Consumption by Sector

		에너지산업자체소비	합계				
		Transformation own use	Total	산업	수송	가정	상업·공공
				Industry	Transport	Residential	Commercial & Public
1,000 toe							
1990		1,529	71,150	36,799	12,141	11,262	10,948
1995		2,389	116,508	62,276	22,920	10,712	20,600
2000		8,171	140,966	80,963	25,007	16,273	18,723
2001		7,967	143,589	81,673	26,226	17,020	18,671
2002		7,471	150,381	85,167	28,008	17,791	19,416
2003		7,727	153,972	86,646	29,002	17,877	20,448
2004		8,349	155,678	88,125	29,178	18,064	20,312
2005		8,170	158,478	89,370	29,730	19,754	19,625
2006		8,182	162,528	92,241	30,928	19,613	19,745
2007		8,414	167,225	96,978	30,496	18,872	20,879
2008		9,511	168,469	98,110	30,007	19,347	21,005
2009		9,327	169,567	98,532	30,389	19,349	21,297
2010		9,259	184,581	109,981	31,010	20,733	22,857
2011		10,311	193,726	119,660	31,016	20,496	22,554
2012		10,792	193,771	118,914	31,502	20,407	22,948
2013		10,329	195,292	121,318	32,017	20,185	21,772
2014		11,898	195,889	122,898	32,407	18,905	21,679
2015		12,207	199,347	123,174	34,510	18,971	22,692
2016		12,093	207,553	127,696	36,030	20,140	23,686
2017		11,255	212,444	130,932	36,261	20,918	24,333
2018		13,539	214,001	130,769	36,227	22,114	24,890
2019		14,087	211,733	129,223	37,194	21,466	23,850
2020		13,924	203,758	123,987	34,734	22,357	22,679
2021 <sup>p</sup>		14,586	215,277	132,604	36,250	22,845	23,578
2020	9	1,115	16,059	10,284	2,896	1,121	1,757
	10	1,139	15,821	10,073	2,826	1,343	1,580
	11	1,111	16,769	9,648	3,245	2,031	1,845
	12	1,263	19,498	11,108	2,892	3,185	2,313
2021 <sup>p</sup>	1	1,340	20,220	11,020	2,758	3,816	2,626
	2	1,180	18,393	10,280	2,756	3,058	2,299
	3	1,191	18,426	11,281	2,836	2,311	1,998
	4	1,129	17,189	10,688	3,074	1,686	1,741
	5	1,203	16,720	10,762	3,077	1,289	1,592
	6	1,166	16,750	10,738	3,248	1,038	1,726
	7	1,143	17,180	11,231	3,113	965	1,871
	8	1,254	17,385	11,245	3,043	1,148	1,948
	9	1,203	17,091	11,189	3,067	1,060	1,775
	10	1,160	16,791	10,874	2,876	1,337	1,704
	11	1,222	17,964	11,096	2,966	2,028	1,873
	12	1,396	21,167	12,198	3,436	3,108	2,425
2022 <sup>p</sup>	1	1,409	21,427	11,968	3,160	3,717	2,583
	2	1,212	19,025	10,473	2,669	3,398	2,484
	3	1,298	18,541	11,236	2,656	2,553	2,096
	4	1,156	16,814	10,757	2,501	1,759	1,796
	5	1,246	17,519	11,141	3,497	1,188	1,693
	6	1,205	15,705	10,292	2,698	961	1,754
	7	1,260	17,462	11,250	3,209	1,032	1,971
	8	1,334	17,622	10,863	3,555	1,138	2,065
	9	1,173	15,664	9,921	2,854	1,066	1,823
2021 <sup>p</sup>	1-9	10,808	159,354	98,435	26,972	16,372	17,575
2022 <sup>p</sup>	1-9	11,293	159,779	97,902	26,799	16,813	18,265

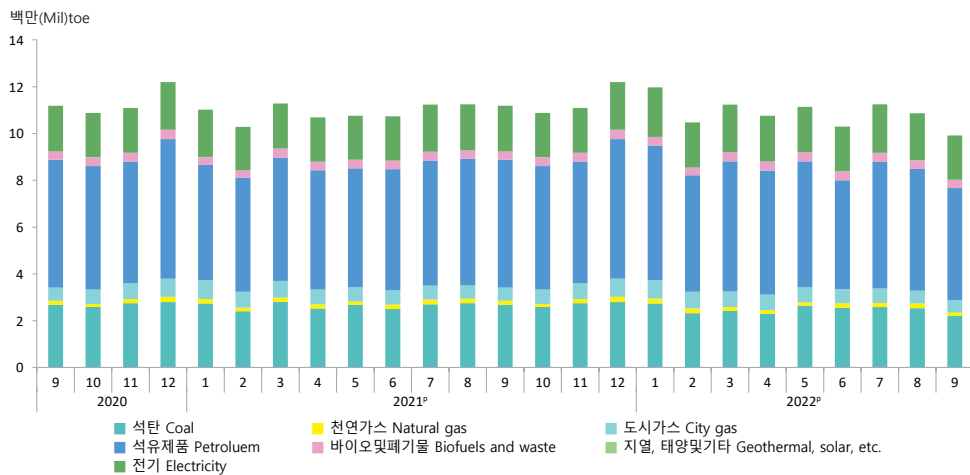
## ● 산업 Industry

〈1990~2021<sup>p</sup>〉

〈월별 Monthly〉

〈1990~2021<sup>p</sup>〉

〈월별 Monthly〉

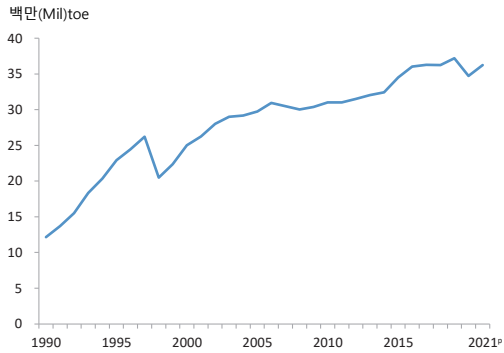


## 2.3.1 산업

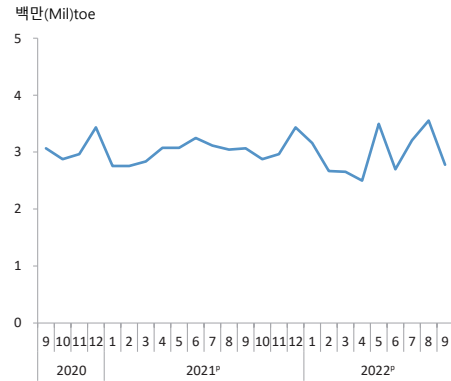
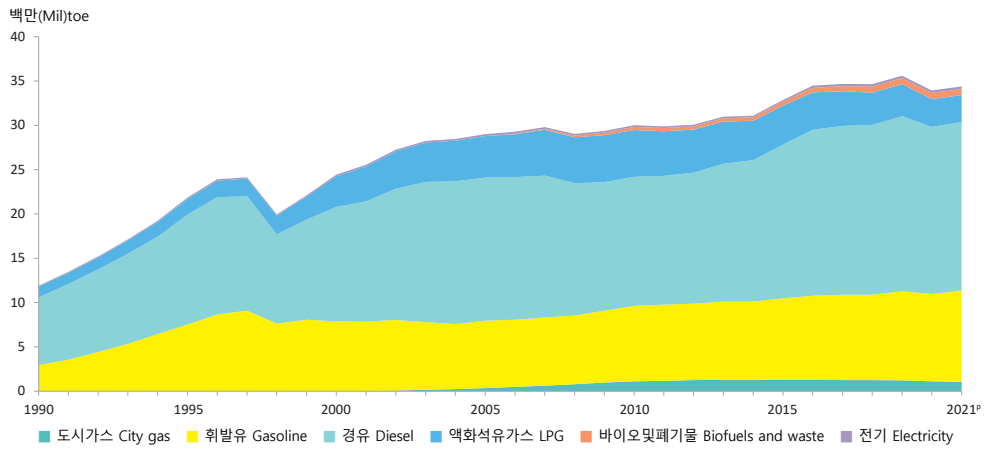
## Industry

		합계 Total	석탄 Coal	천연가스 Natural gas	도시가스 City gas	석유제품 Petroleum	바이오및폐기물 Biofuels and waste	지열,태양및기타 Geothermal, solar, etc.	전기 Electricity
		1,000 toe							
1990		36,799	11,942	5	235	19,642		0	4,975
1995		62,276	18,091	12	863	35,192		33	8,085
2000		80,963	20,746	207	3,308	45,031		624	11,047
2001		81,673	21,464	569	3,612	44,082		611	11,335
2002		85,167	22,507	623	3,984	45,450		542	12,060
2003		86,646	23,293	595	4,177	45,467		633	12,480
2004		88,125	23,046	765	4,382	46,044		757	13,130
2005		89,370	22,707	632	4,655	46,355	1,189	1	13,830
2006		92,241	23,128	1,318	4,847	47,289	1,201	1	14,458
2007		96,978	24,552	838	5,225	49,602	1,334	2	15,426
2008		98,110	26,464	714	5,933	47,435	1,474	1	16,089
2009		98,532	23,870	975	5,891	49,850	1,628	2	16,316
2010		109,981	29,695	996	7,329	51,961	1,545	5	18,449
2011		119,660	35,120	999	8,383	53,255	1,874	9	20,018
2012		118,914	32,689	1,060	9,443	53,084	2,061	15	20,562
2013		121,318	32,243	1,041	10,060	53,505	3,254	21	21,194
2014		122,898	35,235	1,018	7,684	54,194	2,959	21	21,788
2015		123,174	35,041	1,129	7,539	54,610	2,944	31	21,880
2016		127,696	33,918	1,797	7,456	58,705	3,622	32	22,165
2017		130,932	33,531	1,832	7,953	60,738	4,121	34	22,723
2018		130,769	33,965	1,773	7,842	59,619	4,252	29	23,289
2019		129,223	32,617	1,932	7,692	60,068	3,945	44	22,925
2020		123,987	30,897	2,108	7,345	57,699	3,981	48	21,908
2021 <sup>p</sup>		132,604	31,957	2,105	7,855	63,083	4,368	55	23,182
2020									
	9	10,284	2,624	159	563	4,697	348	4	1,888
	10	10,073	2,621	142	589	4,626	344	4	1,746
	11	9,648	2,568	175	664	4,057	339	4	1,841
	12	11,108	2,866	182	783	4,962	360	4	1,951
2021 <sup>p</sup>									
	1	11,020	2,743	185	811	4,921	335	4	2,021
	2	10,280	2,410	152	676	4,875	317	4	1,845
	3	11,281	2,816	175	709	5,269	382	5	1,926
	4	10,688	2,529	169	641	5,086	372	5	1,886
	5	10,762	2,676	142	619	5,080	359	4	1,882
	6	10,738	2,507	182	602	5,185	371	5	1,886
	7	11,231	2,708	198	596	5,347	376	5	2,002
	8	11,245	2,751	191	575	5,410	358	4	1,956
	9	11,189	2,674	186	560	5,463	358	4	1,944
	10	10,874	2,594	120	615	5,286	367	5	1,887
	11	11,096	2,752	179	673	5,194	375	5	1,918
	12	12,198	2,796	225	778	5,968	397	5	2,029
2022 <sup>p</sup>									
	1	11,968	2,741	212	784	5,756	364	4	2,107
	2	10,473	2,327	197	718	4,971	335	4	1,920
	3	11,236	2,420	165	661	5,563	394	5	2,028
	4	10,757	2,299	150	667	5,308	382	4	1,947
	5	11,141	2,648	142	640	5,387	384	4	1,936
	6	10,292	2,561	187	613	4,642	374	4	1,912
	7	11,250	2,582	178	621	5,418	382	4	2,064
	8	10,863	2,541	194	549	5,209	360	4	2,007
	9	9,921	2,203	147	528	4,792	357	5	1,890
2021 <sup>p</sup>	1-9	98,435	23,814	1,580	5,788	46,635	3,228	40	17,348
2022 <sup>p</sup>	1-9	97,902	22,321	1,571	5,782	47,046	3,332	39	17,812

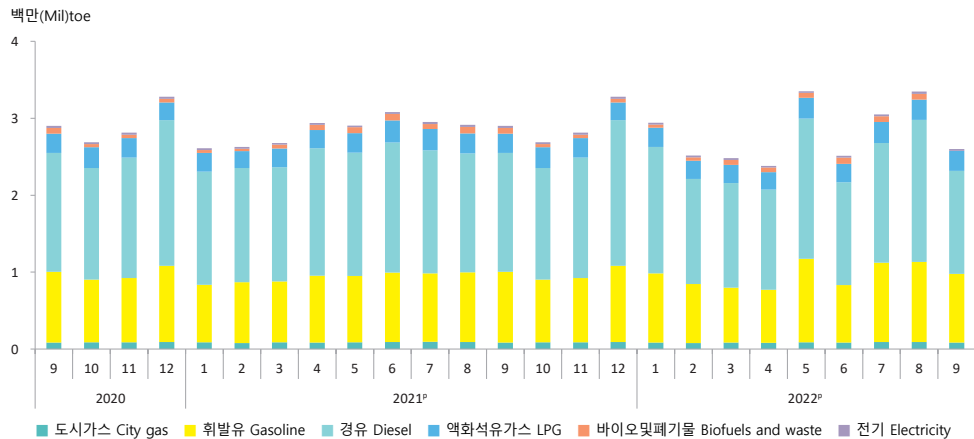
## ● 수송 Transport

〈1990~2021<sup>o</sup>〉

〈월별 Monthly〉

〈1990~2021<sup>o</sup>〉

〈월별 Monthly〉



## 2.3.2 수송

## Transport

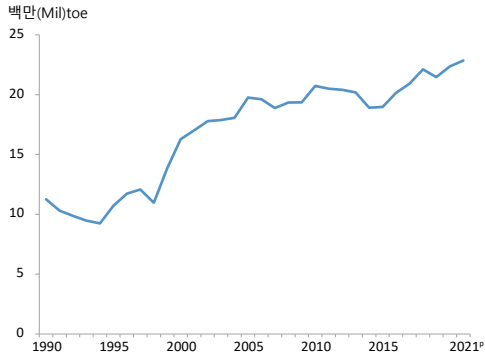
		합계	도시가스	석유제품	휘발유	경유	액화석유가스	바이오및폐기물 <sup>1</sup>	전기
		Total	City gas	Petroleum	Gasoline	Diesel	LPG	Biofuels and waste <sup>1</sup>	Electricity
		1,000 toe							
1990		12,141	0	12,054	2,934	7,641	1,221	0	87
1995		22,920	0	22,765	7,527	12,409	1,765	0	155
2000		25,007	0	24,832	7,884	12,909	3,453	0	175
2001		26,226	7	26,024	7,848	13,554	3,946	0	194
2002		28,008	80	27,733	7,961	14,794	4,228	0	195
2003		29,002	146	28,656	7,633	15,842	4,415	0	200
2004		29,178	237	28,729	7,335	16,117	4,566	0	213
2005		29,730	339	29,167	7,618	16,141	4,677	0	224
2006		30,928	475	30,192	7,574	16,114	4,844	43	218
2007		30,496	615	29,577	7,686	16,029	5,174	95	209
2008		30,007	777	28,858	7,745	14,942	5,191	177	196
2009		30,389	960	28,982	8,106	14,507	5,332	261	187
2010		31,010	1,112	29,352	8,498	14,571	5,294	357	188
2011		31,016	1,174	29,302	8,579	14,547	5,036	347	193
2012		31,502	1,246	29,706	8,612	14,789	4,863	357	194
2013		32,017	1,302	30,154	8,802	15,558	4,755	375	186
2014		32,407	1,306	30,534	8,805	15,956	4,455	394	172
2015		34,510	1,281	32,597	9,186	17,364	4,405	441	191
2016		36,030	1,270	34,006	9,512	18,729	4,209	523	231
2017		36,261	1,253	34,197	9,625	19,054	3,930	564	246
2018		36,227	1,238	34,038	9,649	19,143	3,664	686	265
2019		37,194	1,216	35,022	10,050	19,761	3,608	685	271
2020		34,734	1,099	32,667	9,858	18,865	3,140	695	274
2021 <sup>p</sup>		36,250	1,060	34,196	10,325	18,983	3,033	704	291
2020	9	2,896	90	2,711	838	1,574	256	72	24
	10	2,826	89	2,665	805	1,533	262	50	21
	11	3,245	89	3,092	928	1,825	277	41	22
	12	2,892	90	2,733	797	1,647	235	42	27
2021 <sup>p</sup>	1	2,758	87	2,612	749	1,471	243	37	23
	2	2,756	78	2,623	793	1,483	221	32	23
	3	2,836	90	2,674	791	1,482	246	50	22
	4	3,074	86	2,895	868	1,657	236	70	22
	5	3,077	88	2,890	863	1,602	253	78	21
	6	3,248	91	3,048	905	1,688	288	84	25
	7	3,113	96	2,927	888	1,600	278	65	26
	8	3,043	92	2,839	907	1,543	262	83	28
	9	3,067	86	2,880	919	1,546	250	75	25
	10	2,876	88	2,725	814	1,452	271	39	24
	11	2,966	87	2,810	836	1,566	255	44	25
	12	3,436	91	3,272	992	1,894	230	46	27
2022 <sup>p</sup>	1	3,160	86	3,004	899	1,644	250	40	30
	2	2,669	77	2,521	770	1,364	239	44	27
	3	2,656	84	2,480	715	1,360	234	66	26
	4	2,501	83	2,330	687	1,305	223	62	26
	5	3,497	87	3,320	1,086	1,823	271	64	27
	6	2,698	85	2,504	748	1,336	239	82	28
	7	3,209	92	3,013	1,033	1,554	274	73	31
	8	3,555	91	3,354	1,042	1,847	261	77	33
	9	2,854	85	2,662	891	1,339	261	76	30
2021 <sup>p</sup>	1-9	26,972	794	25,389	7,682	14,071	2,276	575	215
2022 <sup>p</sup>	1-9	26,799	770	25,189	7,871	13,572	2,252	584	215

1. 바이오디젤

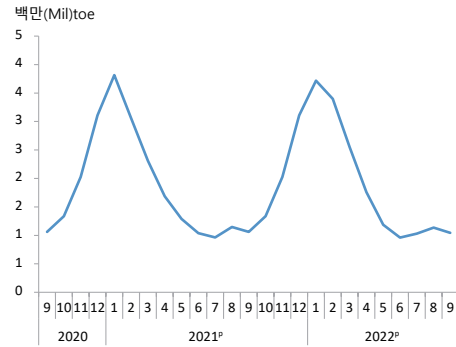
1. Biodiesel

## ● 가정 Residential

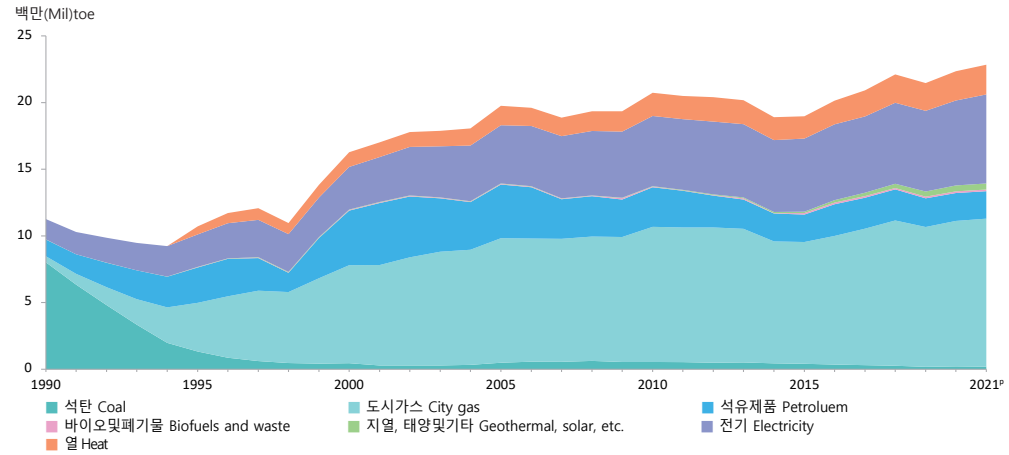
〈1990~2021\*〉



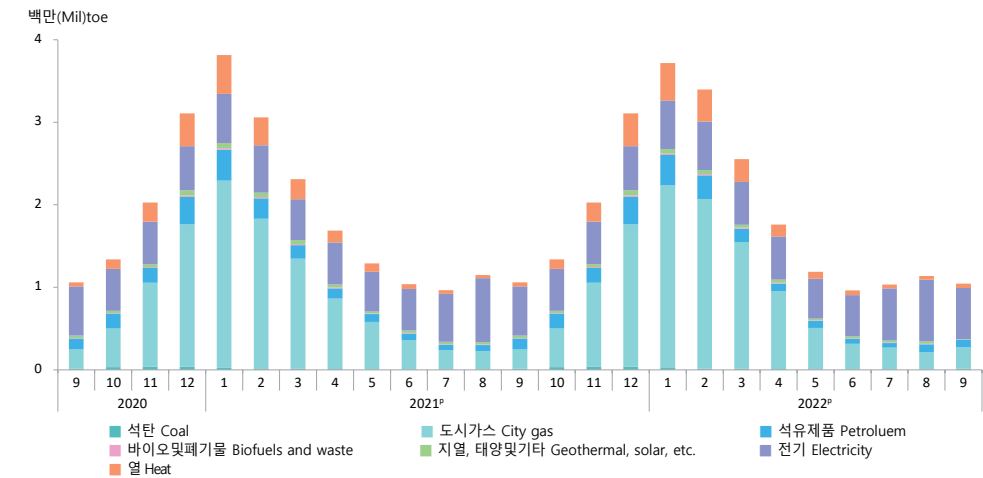
〈월별 Monthly〉



〈1990~2021\*〉



〈월별 Monthly〉





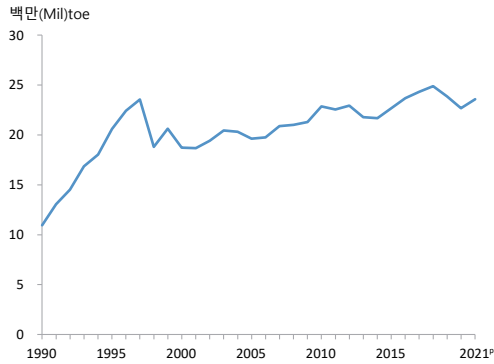
## 2.3.3 가정

## Residential

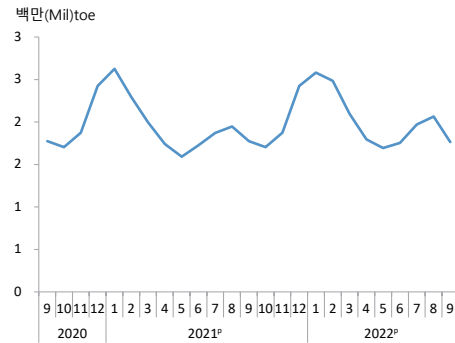
		합계 Total	석탄 Coal	도시가스 City gas	석유제품 Petroleum	바이오및폐기물 Biofuels and waste	지열,태양및기타 Geothermal, solar, etc.	전기 Electricity	열 Heat
		1,000 toe							
1990		11,262	8,023	454	1,254	-	6	1,525	-
1995		10,712	1,327	3,655	2,656	20	17	2,434	603
2000		16,273	450	7,353	4,099	43	35	3,191	1,102
2001		17,020	288	7,526	4,658	42	31	3,372	1,102
2002		17,791	285	8,109	4,566	48	29	3,636	1,118
2003		17,877	280	8,531	4,010	43	29	3,833	1,151
2004		18,064	325	8,636	3,574	34	31	4,181	1,283
2005		19,754	483	9,344	4,024	49	30	4,375	1,449
2006		19,613	572	9,232	3,845	50	29	4,517	1,367
2007		18,872	557	9,226	2,968	43	27	4,659	1,391
2008		19,347	626	9,330	3,019	41	24	4,836	1,472
2009		19,349	550	9,369	2,815	103	34	4,953	1,525
2010		20,733	542	10,135	2,974	40	37	5,263	1,742
2011		20,496	531	10,100	2,757	28	43	5,295	1,743
2012		20,407	489	10,147	2,384	38	53	5,464	1,832
2013		20,185	507	10,024	2,199	91	66	5,501	1,797
2014		18,905	446	9,141	2,097	23	89	5,390	1,720
2015		18,971	410	9,130	2,064	107	110	5,486	1,663
2016		20,140	351	9,647	2,382	121	178	5,691	1,771
2017		20,918	307	10,238	2,323	123	252	5,720	1,955
2018		22,114	258	10,901	2,335	106	311	6,079	2,125
2019		21,466	186	10,479	2,152	133	377	6,059	2,080
2020		22,357	220	10,900	2,097	127	443	6,370	2,200
2021 <sup>p</sup>		22,845	193	11,104	2,053	131	459	6,670	2,235
2020	9	1,121	15	258	105	7	25	657	53
	10	1,343	41	521	145	7	25	482	122
	11	2,031	37	995	218	11	39	501	230
	12	3,185	41	1,779	345	17	60	533	410
2021 <sup>p</sup>	1	3,816	24	2,269	374	18	62	597	472
	2	3,058	16	1,813	249	15	52	575	338
	3	2,311	12	1,334	163	14	48	495	244
	4	1,686	8	854	124	11	37	508	144
	5	1,289	3	577	96	7	24	481	102
	6	1,038	3	355	82	8	29	502	59
	7	965	3	237	63	8	28	582	45
	8	1,148	3	222	75	8	27	776	38
	9	1,060	14	233	131	8	28	596	49
	10	1,337	33	467	181	8	27	508	114
	11	2,028	37	1,018	179	10	36	515	232
	12	3,108	38	1,725	333	17	61	535	398
2022 <sup>p</sup>	1	3,717	22	2,213	368	17	55	590	452
	2	3,398	15	2,053	290	14	48	588	391
	3	2,553	12	1,535	162	11	37	518	276
	4	1,759	7	946	91	10	38	524	142
	5	1,188	4	502	84	7	23	482	85
	6	961	3	311	60	8	24	500	56
	7	1,032	4	266	53	8	25	631	45
	8	1,138	4	209	94	8	28	750	44
	9	1,066	14	259	91	8	23	618	53
2021 <sup>p</sup>	1-9	16,372	86	7,893	1,359	96	335	5,112	1,491
2022 <sup>p</sup>	1-9	16,813	86	8,294	1,294	91	302	5,201	1,544

## ● 상업·공공 Commercial & Public

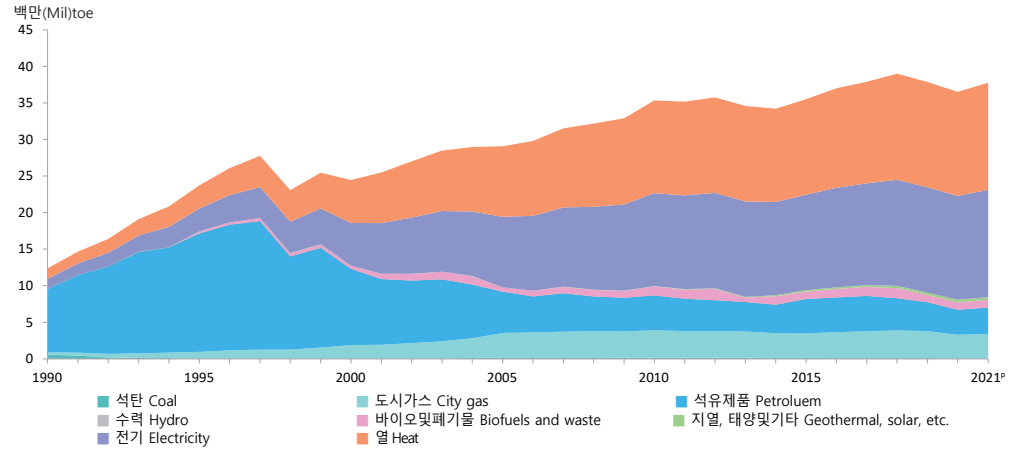
〈1990~2021<sup>p</sup>〉



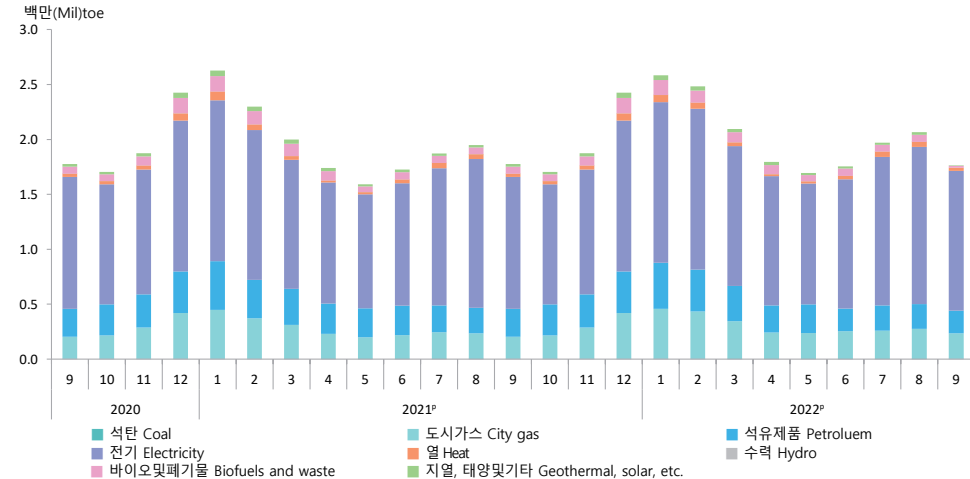
〈월별 Monthly〉



〈1990~2021<sup>p</sup>〉



〈월별 Monthly〉



## 2.3.4 상업·공공

## Commercial &amp; Public

		합계 Total	석탄 Coal	도시가스 City gas	석유제품 Petroleum	수력 Hydro	바이오및폐기물 Biofuels and waste	지열,태양및기타 Geothermal, solar, etc.	전기 Electricity	열 Heat
		1,000 toe								
1990		10,948	563	323	8,642	-	6		1,409	-
1995		20,600	5	935	16,202	-	261		3,159	34
2000		18,723	21	1,849	10,449	-	421		5,860	115
2001		18,671	35	1,886	8,996	-	710		6,921	115
2002		19,416	35	2,132	8,547	-	897		7,693	106
2003		20,448	34	2,358	8,474	4	1,043		8,283	244
2004		20,312	140	2,656	7,341	5	1,163		8,829	166
2005		19,625	191	3,333	5,663	0	580		9,643	202
2006		19,745	208	3,409	4,930	0	765		10,234	182
2007		20,879	186	3,534	5,254	0	882		10,814	185
2008		21,005	194	3,592	4,734	0	903		11,346	198
2009		21,297	157	3,591	4,604	11	928		11,779	189
2010		22,857	143	3,785	4,735	5	1,233		12,694	211
2011		22,554	163	3,630	4,426	0	1,239		12,819	211
2012		22,948	157	3,628	4,245	0	1,543		13,044	252
2013		21,772	162	3,586	4,027	1	580		13,061	252
2014		21,679	132	3,357	3,916	1	1,156		12,754	218
2015		22,692	118	3,355	4,706	1	1,016		13,073	242
2016		23,686	101	3,555	4,734	3	1,189		13,605	304
2017		24,333	88	3,677	4,841	2	1,223		13,909	345
2018		24,890	74	3,812	4,419	3	1,354		14,516	410
2019		23,850	85	3,708	3,948	1	988		14,393	391
2020		22,679	21	3,289	3,387	0	1,023		14,216	393
2021 <sup>P</sup>		23,578	18	3,364	3,625	0	1,061		14,666	480
2020										
	9	1,757	1	194	239	0	58		1,225	20
	10	1,580	4	196	258	0	58		1,025	19
	11	1,845	3	277	321	0	91		1,091	32
	12	2,313	4	400	386	0	138		1,275	62
2021 <sup>P</sup>										
	1	2,626	2	446	442	0	143		1,466	78
	2	2,299	2	369	351	0	121		1,364	51
	3	1,998	1	309	328	0	112		1,175	33
	4	1,741	1	230	274	0	86		1,103	18
	5	1,592	0	199	263	0	55		1,038	18
	6	1,726	0	217	270	0	67		1,115	34
	7	1,871	0	245	243	0	64		1,250	48
	8	1,948	0	235	231	0	62		1,355	44
	9	1,775	1	202	256	0	66		1,199	29
	10	1,704	3	213	283	0	63		1,093	27
	11	1,873	3	284	303	0	83		1,136	35
	12	2,425	4	415	381	0	140		1,372	65
2022 <sup>P</sup>										
	1	2,583	2	456	419	0	135		1,463	65
	2	2,484	1	432	382	0	110		1,465	56
	3	2,096	1	345	321	0	93		1,271	35
	4	1,796	1	243	246	0	83		1,177	17
	5	1,693	0	237	262	0	58		1,099	19
	6	1,754	0	255	205	0	67		1,178	30
	7	1,971	0	258	231	0	63		1,353	46
	8	2,065	0	275	224	0	66		1,432	45
	9	1,823	1	233	205	0	62		1,275	28
2021 <sup>P</sup>	1-9	17,575	8	2,452	2,658	0	775		11,064	352
2022 <sup>P</sup>	1-9	18,265	8	2,733	2,494	0	736		11,714	340

## 2.4 사용 용도별 최종소비

## Total Final Consumption by Energy Use

		합계 Total	전력(수송제외) Electricity (excludes transport)	수송(동력) Transport	원료 Non-energy use	열 <sup>1</sup> Thermal energy <sup>1</sup>
		1,000 toe				
1990		71,150	7,910	12,141	2,304	48,795
1995		116,508	13,677	22,920	15,581	64,330
2000		140,966	20,098	25,007	25,572	70,290
2001		143,589	21,627	26,226	25,505	70,231
2002		150,381	23,389	28,008	26,995	71,990
2003		153,972	24,596	29,002	28,574	71,800
2004		155,678	26,140	29,178	28,526	71,834
2005		158,478	27,848	29,730	29,604	71,297
2006		162,528	29,209	30,928	30,865	71,526
2007		167,225	30,899	30,496	33,776	72,054
2008		168,469	32,271	30,007	33,274	72,917
2009		169,567	33,048	30,389	35,629	70,501
2010		184,581	36,406	31,010	38,017	79,148
2011		193,726	38,132	31,016	39,399	85,180
2012		193,771	39,070	31,502	41,129	82,070
2013		195,292	39,756	32,017	42,063	81,455
2014		195,889	39,931	32,407	43,166	80,385
2015		199,347	40,440	34,510	44,249	80,148
2016		207,553	41,461	36,030	47,769	82,292
2017		212,444	42,353	36,261	49,983	83,848
2018		214,001	43,884	36,227	49,288	84,602
2019		211,733	43,378	37,194	49,440	81,721
2020		203,758	42,494	34,734	45,743	80,786
2021 <sup>P</sup>		215,277	44,517	36,250	50,391	84,118
2020	9	16,059	3,771	2,896	3,746	5,646
	10	15,821	3,252	2,826	3,564	6,179
	11	16,769	3,432	3,245	2,888	7,204
	12	19,498	3,759	2,892	3,697	9,150
2021 <sup>P</sup>	1	20,220	4,084	2,758	3,882	9,495
	2	18,393	3,784	2,756	3,961	7,892
	3	18,426	3,596	2,836	4,232	7,763
	4	17,189	3,497	3,074	4,099	6,519
	5	16,720	3,402	3,077	3,982	6,259
	6	16,750	3,503	3,248	3,999	6,001
	7	17,180	3,833	3,113	4,332	5,902
	8	17,385	4,086	3,043	4,495	5,760
	9	17,091	3,740	3,067	4,374	5,911
	10	16,791	3,488	2,876	4,119	6,308
	11	17,964	3,569	2,966	4,098	7,331
	12	21,167	3,936	3,436	4,819	8,976
2022 <sup>P</sup>	1	21,427	4,160	3,160	4,629	9,479
	2	19,025	3,972	2,669	3,978	8,405
	3	18,541	3,818	2,656	4,575	7,491
	4	16,814	3,648	2,501	4,507	6,158
	5	17,519	3,517	3,497	4,099	6,405
	6	15,705	3,590	2,698	3,812	5,605
	7	17,462	4,048	3,209	4,537	5,668
	8	17,622	4,189	3,555	4,220	5,657
	9	15,664	3,783	2,854	3,826	5,202
2021 <sup>P</sup>	1-9	159,354	33,524	26,972	37,355	61,503
2022 <sup>P</sup>	1-9	159,779	34,726	26,799	38,184	60,070

1. 최종적으로 열을 얻기 위해 사용된 에너지 상품들의 합계(열에너지(heat) 포함)

1. Thermal energy.

## 3. 석 탄

### Coal

#### 3.1 무연탄 수급

##### Anthracite Overview

#### 3.2 무연탄 소비

##### Anthracite Consumption

#### 3.3 유연탄 및 기타 수급

##### Bituminous and Other Coal Overview

#### 3.4 유연탄 및 기타 수입

##### Bituminous and Other Coal Imports

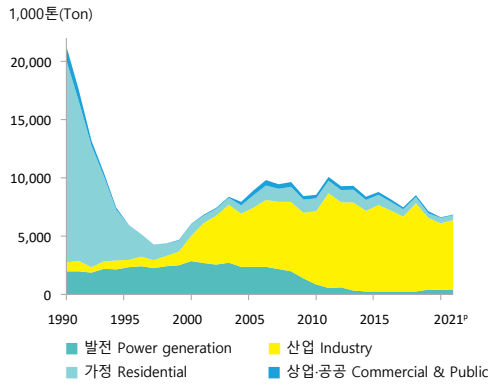
#### 3.5 유연탄 소비

##### Bituminous Coal Consumption

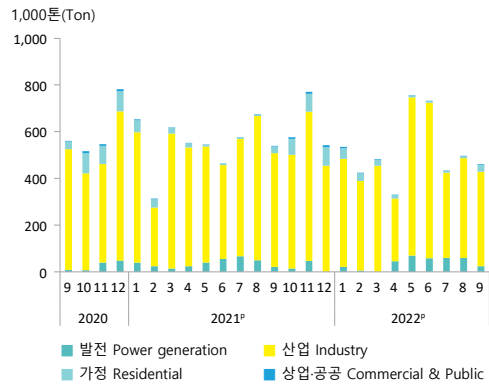


### ● 무연탄 소비 Anthracite Consumption

〈1990~2021<sup>o</sup>〉

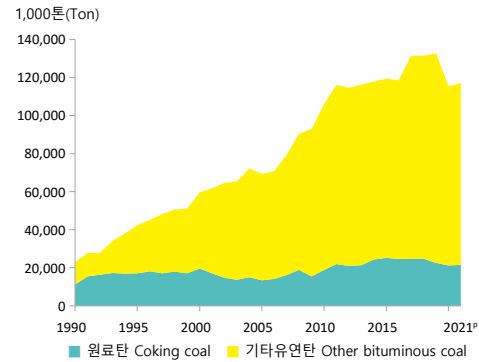


〈월별 Monthly〉

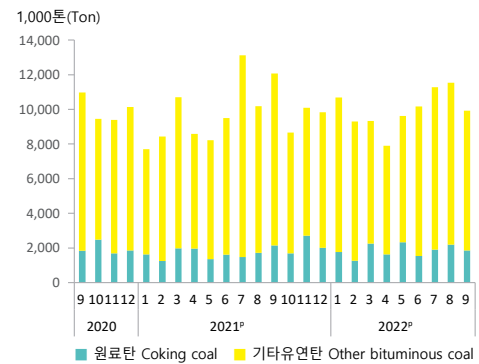


### ● 유연탄 수입 Bituminous Coal Imports

〈1990~2021<sup>o</sup>〉

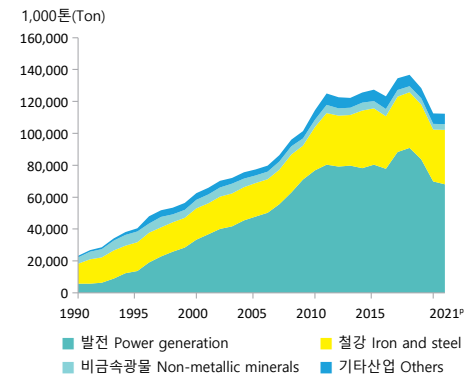


〈월별 Monthly〉

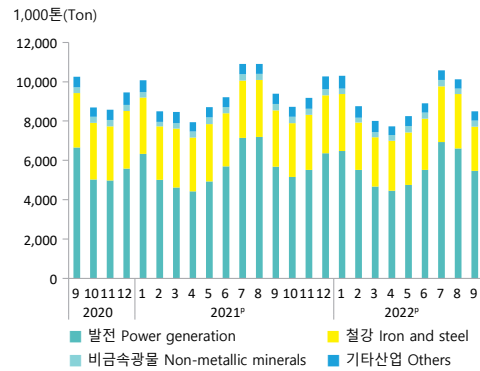


### ● 유연탄 소비 Bituminous Coal Consumption

〈1990~2021<sup>o</sup>〉



〈월별 Monthly〉



## 3.1 무연탄 수급

## Anthracite Overview

		생산	수입	재고			일차에너지공급			발전	최종소비
		Production	Imports	Stock	국내무연탄	수입무연탄	TPES	국내무연탄	수입무연탄	Power generation	TFC
					Domestic	Imported		Domestic	Imported		
		1,000 ton									
1990		17,217	1,072	8,013	6,514	1,499	20,324	19,035	1,289	2,013	19,314
1995		5,720	723	8,492	7,422	1,070	5,720	5,088	632	2,429	3,603
2000		4,150	2,038	10,774	9,903	871	6,151	4,110	2,041	2,850	3,230
2001		3,817	3,110	10,576	9,709	867	7,125	4,011	3,114	2,875	4,154
2002		3,318	3,879	10,101	9,282	819	7,672	3,745	3,927	2,751	4,862
2003		3,298	4,640	9,527	8,728	799	8,512	3,852	4,660	2,880	5,661
2004		3,191	4,251	8,894	8,222	672	8,069	3,697	4,372	2,415	5,578
2005		2,832	4,567	7,388	6,839	549	8,900	4,215	4,685	2,359	6,571
2006		2,824	5,113	5,551	5,062	489	9,773	4,601	5,172	2,356	7,440
2007		2,886	5,444	4,231	3,953	278	9,647	3,995	5,652	2,392	7,298
2008		2,773	5,955	2,797	2,677	120	10,140	4,049	6,091	2,534	7,670
2009		2,519	6,468	2,226	2,110	116	9,557	3,086	6,471	2,690	7,078
2010		2,084	7,406	1,853	1,779	74	9,858	2,415	7,443	2,404	7,700
2011		2,084	8,816	1,720	1,663	57	11,013	2,200	8,813	1,659	9,523
2012		2,094	8,055	1,628	1,554	74	10,230	2,203	8,027	1,797	8,682
2013		1,815	8,482	1,457	1,342	115	10,450	2,027	8,423	1,729	8,994
2014		1,748	8,294	1,610	1,484	126	9,862	1,606	8,256	2,044	8,129
2015		1,764	8,938	1,798	1,731	67	10,493	1,517	8,976	2,125	8,533
2016		1,726	9,424	2,151	2,088	63	10,796	1,369	9,427	2,528	7,907
2017		1,485	7,003	2,441	2,391	50	8,198	1,182	7,016	1,079	7,239
2018		1,202	8,201	2,589	2,511	78	9,248	1,082	8,166	992	8,277
2019		1,084	6,858	2,650	2,629	21	7,881	966	6,915	1,165	6,737
2020		1,019	6,286	2,772	2,768	4	7,183	880	6,303	971	6,218
2021 <sup>p</sup>		898	6,475	2,810	2,806	4	7,334	860	6,474	900	6,424
2020	9	86	582	2,896	2,892	4	626	44	582	62	552
	10	78	423	2,887	2,883	4	510	87	423	46	510
	11	86	442	2,817	2,813	4	598	156	442	81	507
	12	82	751	2,772	2,768	4	878	127	751	118	733
2021 <sup>p</sup>	1	77	639	2,752	2,748	4	736	97	639	108	613
	2	63	229	2,756	2,752	4	288	59	229	62	289
	3	82	641	2,796	2,792	4	683	42	641	66	605
	4	89	546	2,839	2,835	4	592	46	546	56	527
	5	70	566	2,864	2,860	4	611	45	566	112	504
	6	82	398	2,888	2,884	4	456	58	398	70	408
	7	79	555	2,888	2,884	4	634	79	555	121	509
	8	61	717	2,897	2,893	4	769	52	717	121	626
	9	63	492	2,918	2,914	4	534	42	492	30	519
	10	75	516	2,900	2,896	4	609	93	516	44	561
	11	80	739	2,831	2,827	4	888	149	739	109	723
	12	77	438	2,810	2,806	4	536	98	438	-	542
2022 <sup>p</sup>	1	72	450	2,823	2,819	4	509	59	450	21	514
	2	60	373	2,847	2,843	4	408	36	372	6	418
	3	76	458	2,898	2,894	4	483	25	458	0	483
	4	76	300	2,895	2,891	4	379	79	300	122	285
	5	72	744	2,887	2,883	4	824	80	744	83	686
	6	71	742	2,906	2,902	4	794	52	742	79	674
	7	68	407	2,896	2,892	4	485	78	407	136	374
	8	61	486	2,895	2,891	4	548	62	486	133	437
	9	62	443	2,893	2,889	4	507	64	443	62	436
2021 <sup>p</sup>	1-9	666	4,783	2,918	2,914	4	5,303	520	4,783	747	4,598
2022 <sup>p</sup>	1-9	618	4,403	2,893	2,889	4	4,938	535	4,403	643	4,307

자료: 한국무역협회, 대한석탄협회

Source: Korea International Trade Association, Korea Coal Association.

## 3.2 무연탄 소비

## Anthracite Consumption

		합계 <sup>1</sup>	발전		최종소비				
		Total <sup>1</sup>	Power generation	국내무연탄	수입무연탄	TFC	산업	가정	상업·공공
				Domestic	Imported		Industry	Residential	Commercial & Public
1,000 ton									
1990		21,327	2,013	1,983	30	19,314	754	17,343	1,218
1995		6,032	2,429	2,321	108	3,603	650	2,942	11
2000		6,080	2,850	2,850	-	3,230	2,183	1,000	47
2001		7,029	2,875	2,689	186	4,154	3,436	639	78
2002		7,612	2,751	2,558	193	4,862	4,175	611	75
2003		8,541	2,880	2,710	170	5,661	4,966	619	76
2004		7,992	2,415	2,356	59	5,578	4,552	717	308
2005		8,931	2,359	2,354	5	6,571	5,091	1,060	420
2006		9,796	2,356	2,356	-	7,440	5,736	1,250	454
2007		9,690	2,392	2,156	236	7,298	5,775	1,143	379
2008		10,204	2,534	1,960	574	7,670	5,989	1,285	396
2009		9,768	2,690	1,360	1,330	7,078	5,640	1,119	319
2010		10,104	2,404	839	1,565	7,700	6,310	1,100	290
2011		11,182	1,659	543	1,116	9,523	8,138	1,060	325
2012		10,479	1,797	591	1,206	8,682	7,315	1,036	332
2013		10,722	1,729	323	1,406	8,994	7,571	1,079	344
2014		10,173	2,044	250	1,794	8,129	6,908	943	278
2015		10,658	2,125	245	1,880	8,533	7,422	864	247
2016		10,436	2,528	240	2,288	7,907	6,962	736	210
2017		8,317	1,079	235	844	7,239	6,425	633	181
2018		9,269	992	230	762	8,277	7,589	535	153
2019		7,902	1,165	400	765	6,737	6,171	388	178
2020		7,189	971	393	578	6,218	5,711	464	44
2021 <sup>p</sup>		7,324	900	400	500	6,424	5,977	409	39
2020	9	615	62	9	53	552	517	33	3
	10	555	46	7	39	510	415	86	8
	11	587	81	40	41	507	422	77	7
	12	851	118	49	69	733	638	86	8
2021 <sup>p</sup>	1	721	108	40	68	613	557	51	5
	2	351	62	25	37	289	251	35	3
	3	671	66	15	51	605	577	25	2
	4	583	56	25	31	527	508	17	2
	5	616	112	40	72	504	497	6	1
	6	478	70	55	15	408	402	5	1
	7	630	121	67	54	509	503	5	1
	8	747	121	50	71	626	618	7	1
	9	549	30	21	9	519	487	29	3
	10	605	44	15	29	561	486	69	7
	11	832	109	47	62	723	639	77	7
	12	542	-	-	-	542	454	80	8
2022 <sup>p</sup>	1	535	21	21	-	514	463	46	4
	2	424	6	6	-	418	383	32	3
	3	483	0	-	0	483	454	26	2
	4	408	122	45	77	285	268	15	1
	5	769	83	70	13	686	677	8	1
	6	754	79	58	21	674	666	7	1
	7	510	136	60	76	374	365	8	1
	8	569	133	60	73	437	428	8	1
	9	498	62	25	37	436	403	30	3
2021 <sup>p</sup>	1-9	5,345	747	338	409	4,598	4,399	182	17
2022 <sup>p</sup>	1-9	4,950	643	345	298	4,307	4,108	182	17



## 3.3 유연탄 및 기타 수급

## Bituminous and Other Coal Overview

		수입	수출	재고	일차에너지공급			발전	최종소비
		Imports	Exports	Stock	TPES	원료탄	기타유연탄	Power generation	TFC
						Coking coal	Other bituminous coal		
		1,000 ton							
1990		23,047	8	-	23,039	11,286	11,560	5,724	17,580
1995		43,351	6	-	43,345	17,152	25,205	13,752	26,845
2000		62,132	5	4,146	61,145	19,718	38,896	33,305	29,498
2001		63,925	1	3,829	64,241	17,217	44,955	36,601	29,534
2002		66,594	2	3,502	66,920	14,930	50,036	40,143	30,466
2003		67,513	2	3,074	67,939	13,750	51,994	41,631	30,913
2004		75,446	5	5,865	72,650	14,351	54,957	45,512	30,899
2005		72,586	14	4,727	73,710	13,871	56,596	47,852	29,934
2006		74,954	12	4,409	75,260	14,797	56,409	50,199	29,998
2007		83,455	10	4,634	83,220	15,801	63,328	55,487	31,354
2008		94,443	17	5,840	93,220	18,703	70,560	62,791	34,044
2009		96,842	4	5,143	97,534	15,628	78,021	71,091	30,565
2010		111,898	7	5,833	111,201	18,369	87,037	76,674	38,536
2011		120,895	40	6,982	119,706	21,724	93,241	80,393	45,158
2012		117,981	23	7,246	117,694	20,861	93,503	79,136	43,963
2013		118,514	44	6,156	119,560	22,485	94,827	79,692	43,000
2014		123,269	21	5,647	123,756	24,123	94,259	78,227	47,921
2015		126,671	1	7,459	124,859	24,518	92,992	80,354	47,557
2016		125,507	1	7,985	124,979	25,541	92,401	77,691	45,993
2017		141,674	135	7,840	141,685	24,666	106,873	88,309	46,498
2018		140,969	63	6,266	142,480	25,657	107,437	90,764	46,305
2019		134,933	17	7,836	133,347	21,837	109,260	83,637	45,177
2020		117,600	159	6,455	118,822	21,005	95,749	69,772	42,954
2021 <sup>p</sup>		119,625	313	5,399	120,368	21,333	96,829	68,040	44,425
2020	9	11,227	14	6,620	11,269	1,981	9,050	6,653	3,627
	10	9,567	0	7,007	9,179	2,325	6,748	5,030	3,686
	11	9,704	5	7,396	9,310	1,536	7,466	4,986	3,606
	12	10,305	0	6,455	11,246	1,904	9,181	5,582	3,902
2021 <sup>p</sup>	1	7,875	0	5,447	8,884	1,436	7,273	6,325	3,776
	2	8,677	20	5,101	9,003	1,352	7,429	5,004	3,502
	3	10,874	20	6,290	9,665	1,903	7,604	4,617	3,869
	4	8,831	69	6,203	8,850	1,809	6,868	4,430	3,484
	5	8,324	88	5,938	8,501	1,488	6,996	4,927	3,723
	6	9,678	28	5,440	10,148	1,555	8,444	5,694	3,535
	7	13,374	25	6,173	12,616	1,654	10,741	7,151	3,761
	8	10,352	23	5,864	10,639	1,836	8,653	7,186	3,736
	9	12,330	25	6,927	11,242	1,903	9,104	5,677	3,741
	10	8,846	15	6,245	9,512	1,869	7,468	5,151	3,606
	11	10,383	0	6,185	10,443	2,602	7,552	5,516	3,748
	12	10,081	0	5,399	10,867	1,927	8,696	6,362	3,944
2022 <sup>p</sup>	1	10,809	28	5,627	10,554	2,818	7,645	6,469	3,852
	2	9,561	0	5,162	10,026	1,545	8,214	5,510	3,283
	3	9,454	0	6,099	8,516	2,152	6,236	4,666	3,368
	4	8,205	0	5,924	8,380	1,609	6,458	4,455	3,315
	5	9,734	0	6,472	9,186	2,035	7,044	4,748	3,539
	6	10,396	0	6,191	10,677	2,001	8,441	5,520	3,410
	7	11,435	0	6,345	11,280	1,721	9,402	6,932	3,673
	8	11,807	0	6,458	11,694	2,183	9,250	6,615	3,574
	9	10,177	0	6,108	10,527	1,859	8,416	5,465	3,076
2021 <sup>p</sup>	1-9	90,315	297	6,927	89,546	14,935	73,113	51,011	33,128
2022 <sup>p</sup>	1-9	91,579	28	6,108	90,841	17,925	71,107	50,380	31,090

주: 유연탄 및 기타는 원료탄, 기타유연탄, 아역청탄, 갈탄, 토탄, 고품연료, 코크스임.  
 자료: 한국무역협회, 대한석탄협회

Note: Bituminous and other coal includes coking coal, other bituminous coal, sub-bituminous coal, lignite/brown coal, peat, patent fuel and coke oven coke.  
 Source: Korea International Trade Association, Korea Coal Association.

## 3.4 유연탄 및 기타 수입

## Bituminous and Other Coal Imports

		합계 Total	원료탄 Coking coal	기타유연탄 Other bituminous coal	아역청탄 Sub-Bituminous coal	갈탄 Lignite/Brown coal	토탄 Peat	고형연료 Patent Fuel	코크스 Coke Oven Coke
		1,000 ton							
1990		23,047	11,286	11,560	0	35	21	-	145
1995		43,351	17,152	25,207	755	5	12	-	221
2000		62,132	19,568	40,032	2,207	2	18	0	305
2001		63,925	17,109	44,748	1,772	1	23	0	272
2002		66,594	14,759	49,881	1,595	1	25	40	293
2003		67,513	13,794	51,525	1,741	1	28	-	425
2004		75,446	15,122	56,981	2,610	0	38	6	689
2005		72,586	13,452	55,878	2,862	0	44	9	341
2006		74,954	14,130	56,758	3,706	1	40	5	314
2007		83,455	16,281	63,074	3,486	0	51	12	551
2008		94,443	18,831	71,638	3,160	5	52	56	700
2009		96,842	15,481	77,471	3,562	0	39	32	256
2010		111,898	18,943	87,153	5,090	0	50	34	629
2011		120,895	21,965	94,154	4,215	3	61	92	406
2012		117,981	20,895	93,750	2,834	2	58	74	368
2013		118,514	21,404	94,818	1,803	1	61	62	364
2014		123,269	24,361	93,512	4,865	2	66	56	406
2015		126,671	25,210	94,111	6,824	3	72	61	390
2016		125,507	24,652	93,816	6,569	2	65	59	343
2017		141,674	24,719	106,745	9,769	1	69	25	347
2018		140,969	24,716	106,803	8,999	0	62	15	374
2019		134,933	22,622	110,045	1,870	0	63	5	328
2020		117,600	21,234	94,139	1,833	0	101	1	291
2021 <sup>p</sup>		119,625	21,511	95,595	2,036	0	145	0	338
2020	9	11,227	1,839	9,137	212	0	15	-	24
	10	9,567	2,475	6,985	75	0	8	-	24
	11	9,704	1,692	7,699	284	-	4	-	24
	12	10,305	1,857	8,288	139	-	5	-	16
2021 <sup>p</sup>	1	7,875	1,634	6,067	141	-	7	-	26
	2	8,677	1,244	7,191	213	-	12	-	17
	3	10,874	1,972	8,724	140	-	10	-	28
	4	8,831	1,960	6,629	207	-	5	-	29
	5	8,324	1,353	6,867	75	-	6	-	23
	6	9,678	1,608	7,893	140	0	5	-	32
	7	13,374	1,478	11,649	214	0	5	0	27
	8	10,352	1,715	8,465	139	-	6	-	28
	9	12,330	2,144	9,926	204	-	33	-	23
	10	8,846	1,685	6,970	148	-	10	0	33
	11	10,383	2,713	7,380	211	-	38	-	41
	12	10,081	2,006	7,832	205	-	9	-	29
2022 <sup>p</sup>	1	10,809	1,772	8,919	77	0	8	-	34
	2	9,561	1,264	8,030	235	-	8	-	24
	3	9,454	2,248	7,078	103	0	7	0	18
	4	8,205	1,634	6,258	279	-	5	-	28
	5	9,734	2,332	7,295	73	-	7	-	27
	6	10,396	1,532	8,630	209	0	4	-	21
	7	11,435	1,909	9,369	134	-	5	-	18
	8	11,807	2,186	9,359	202	-	32	0	27
	9	10,177	1,857	8,069	213	-	6	-	33
2021 <sup>p</sup>	1-9	90,315	15,107	73,413	1,473	0	88	0	235
2022 <sup>p</sup>	1-9	91,579	16,734	73,007	1,524	0	82	0	231

자료: 한국무역협회

Source: Korea International Trade Association

## 3.5 유연탄 소비

## Bituminous Coal Consumption

		합계 <sup>1</sup>	발전 <sup>2</sup>	산업			기타 Others
		Total <sup>1</sup>	Power generation <sup>2</sup>	Industry	철강	비금속광물	
					Iron and steel	Non-metallic minerals	
1,000 ton							
1990		23,111	5,724	17,387	12,457	4,030	900
1995		40,362	13,752	26,610	17,890	6,831	1,889
2000		62,478	33,305	29,173	19,631	5,308	4,234
2001		65,839	36,601	29,237	19,580	5,475	4,183
2002		70,250	40,143	30,107	20,205	5,669	4,232
2003		72,091	41,631	30,459	20,648	6,060	3,751
2004		75,681	45,512	30,169	20,779	5,309	4,080
2005		77,406	47,852	29,554	20,890	4,807	3,856
2006		79,849	50,199	29,649	20,965	4,738	3,946
2007		86,236	55,487	30,748	21,736	5,051	3,961
2008		96,038	62,791	33,245	23,835	5,236	4,174
2009		101,333	71,091	30,241	21,182	4,463	4,596
2010		114,505	76,674	37,830	27,210	4,564	6,055
2011		125,026	80,393	44,632	32,368	5,046	7,218
2012		122,603	79,136	43,466	31,948	4,625	6,893
2013		122,247	79,692	42,555	31,747	4,647	6,161
2014		125,638	78,227	47,411	36,070	4,916	6,425
2015		127,386	80,354	47,032	35,310	4,650	7,072
2016		123,216	77,691	45,524	33,079	4,591	7,854
2017		134,430	88,309	46,121	34,601	4,175	7,344
2018		136,681	90,764	45,917	35,107	3,709	7,101
2019		128,434	83,637	44,797	34,316	3,989	6,492
2020		112,491	69,772	42,720	32,690	3,404	6,625
2021 <sup>P</sup>		112,295	68,040	44,255	34,096	3,649	6,510
2020	9	10,255	6,653	3,602	2,764	294	544
	10	8,684	5,030	3,654	2,879	303	472
	11	8,569	4,986	3,583	2,752	325	506
	12	9,463	5,582	3,881	2,927	310	644
2021 <sup>P</sup>	1	10,068	6,325	3,743	2,873	267	602
	2	8,497	5,004	3,493	2,726	223	545
	3	8,468	4,617	3,851	2,999	279	573
	4	7,949	4,430	3,519	2,737	305	476
	5	8,708	4,927	3,781	2,912	344	525
	6	9,220	5,694	3,526	2,702	311	512
	7	10,905	7,151	3,754	2,905	329	520
	8	10,911	7,186	3,725	2,906	310	509
	9	9,388	5,677	3,711	2,860	332	519
	10	8,729	5,151	3,578	2,734	327	517
	11	9,185	5,516	3,669	2,797	316	556
	12	10,267	6,362	3,905	2,945	306	655
2022 <sup>P</sup>	1	10,306	6,469	3,837	2,909	267	661
	2	8,762	5,510	3,252	2,419	246	587
	3	8,009	4,666	3,343	2,504	272	567
	4	7,736	4,455	3,281	2,539	300	442
	5	8,253	4,748	3,505	2,671	332	502
	6	8,905	5,520	3,385	2,599	308	478
	7	10,582	6,932	3,650	2,832	325	493
	8	10,130	6,615	3,515	2,755	281	479
	9	8,503	5,465	3,038	2,244	317	477
2021 <sup>P</sup>	1-9	84,113	51,011	33,102	25,620	2,700	4,782
2022 <sup>P</sup>	1-9	81,185	50,380	30,805	23,470	2,648	4,686

주: 유연탄은 원료탄과 기타유연탄임.

Note: Bituminous coal includes coking coal and other bituminous coal.

1. 일차에너지소비

1. Total primary energy consumption

2. 아역청탄 포함

2. Includes sub-bituminous coal.

자료: 대한석탄협회

Source: Korea Coal Association.



## 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

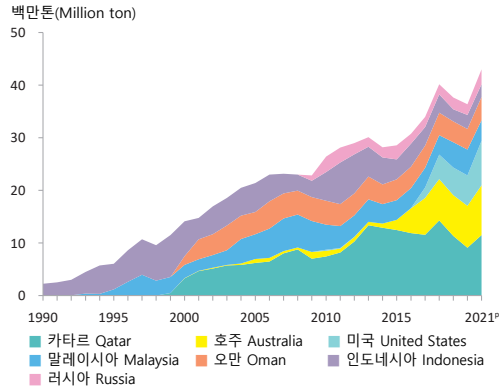
#### 4.4 도시가스 수급

City Gas Overview

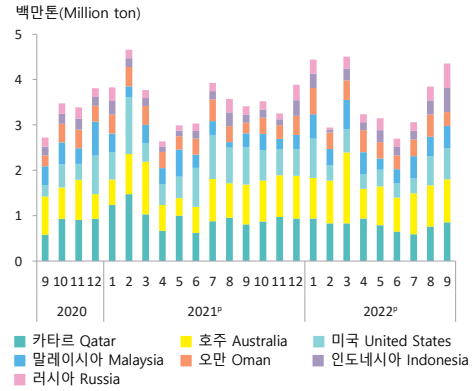


## ● 천연가스 수입 Natural Gas Imports

〈1990~2021<sup>o</sup>〉

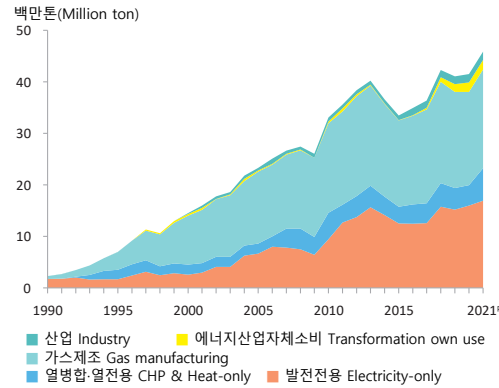


〈월별 Monthly〉

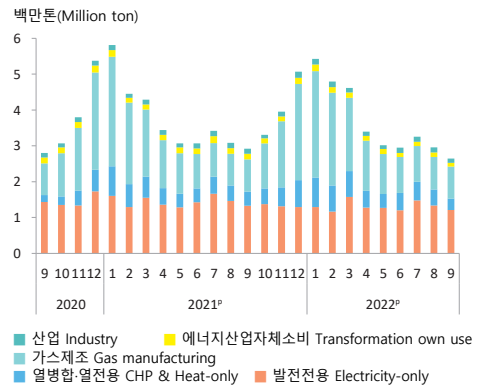


## ● 천연가스 소비 Natural Gas Consumption

〈1990~2021<sup>o</sup>〉

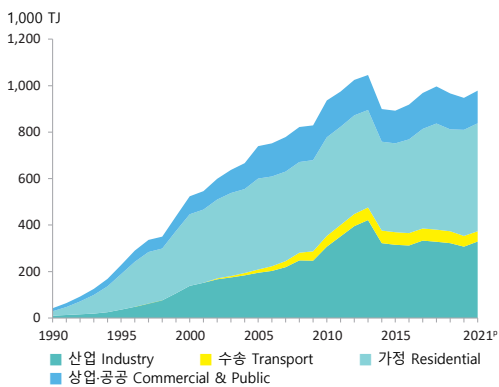


〈월별 Monthly〉

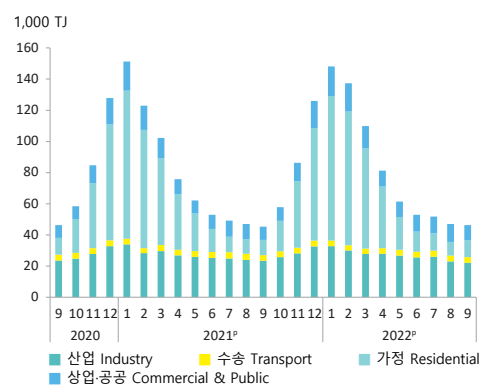


## ● 도시가스 소비 City Gas consumption

〈1990~2021<sup>o</sup>〉



〈월별 Monthly〉



## 4.1 천연가스수급

## Natural Gas Overview

		생산 Production	수입 Imports	재고 Stock	일차에너지공급 TPES	전환공정 <sup>1</sup> Transformation processes <sup>1</sup>	최종소비 TFC
		1,000 ton					
1990		-	2,237	46	2,275	2,313	4
1995		-	6,756	157	6,696	6,970	9
2000		-	15,239	591	15,187	14,057	160
2001		-	15,318	738	15,171	15,149	438
2002		-	17,993	426	18,305	17,224	479
2003		-	19,308	1,063	18,671	17,988	458
2004		163	21,781	1,602	21,405	20,710	589
2005		398	22,317	959	23,359	22,601	486
2006		355	25,256	1,936	24,573	23,893	1,014
2007		271	25,569	1,099	26,677	25,878	645
2008		181	27,259	2,558	25,986	26,718	549
2009		383	25,822	1,734	27,029	25,228	750
2010		415	32,603	2,689	32,063	31,943	766
2011		347	36,685	3,323	36,416	34,261	769
2012		334	36,184	1,840	38,001	37,222	813
2013		355	39,876	2,237	39,834	39,264	798
2014		247	37,107	3,234	36,357	35,689	781
2015		144	33,366	3,034	33,710	32,513	866
2016		118	33,453	1,695	34,911	33,404	1,378
2017		261	37,537	2,308	37,185	34,620	1,403
2018		234	44,015	4,374	42,183	39,988	1,357
2019		198	40,748	4,069	41,249	38,038	1,479
2020		142	39,982	2,886	41,307	38,024	1,614
2021 <sup>P</sup>		42	45,932	3,207	45,653	42,367	1,612
2020	9	1	2,935	3,372	2,992	2,513	122
	10	-	3,848	4,064	3,157	2,790	109
	11	9	3,582	3,996	3,659	3,497	134
	12	9	4,257	2,886	5,376	5,042	139
2021 <sup>P</sup>	1	7	4,424	1,284	6,033	5,487	141
	2	5	5,159	2,405	4,043	4,203	117
	3	5	4,194	2,212	4,392	4,010	134
	4	6	2,836	1,871	3,182	3,156	129
	5	6	3,391	2,034	3,234	2,794	109
	6	2	3,131	2,059	3,107	2,770	139
	7	2	4,019	2,743	3,337	3,078	152
	8	1	3,477	3,176	3,045	2,778	146
	9	2	3,702	3,886	2,995	2,620	142
	10	2	3,897	4,442	3,343	3,066	92
	11	2	3,846	4,146	4,144	3,682	137
	12	1	3,855	3,207	4,796	4,724	172
2022 <sup>P</sup>	1	-	4,999	2,736	5,471	5,084	162
	2	-	3,474	1,464	4,746	4,481	151
	3	-	4,952	1,750	4,666	4,336	126
	4	-	3,442	1,949	3,243	3,144	115
	5	-	3,384	2,118	3,216	2,767	109
	6	-	2,515	1,844	2,789	2,686	143
	7	-	3,252	1,851	3,245	2,997	136
	8	-	3,788	2,804	2,835	2,690	149
	9	-	4,217	3,975	3,046	2,420	112
2021 <sup>P</sup>	1-9	36	34,334	3,886	33,370	30,895	1,210
2022 <sup>P</sup>	1-9	-	34,024	3,975	33,257	30,606	1,203

1. 발전전용, 열병합, 열전용, 가스제조

자료: 한국무역협회, 한국가스공사, LNG직도입사.

1. Includes gas manufacturing, electricity-only, CHP and heat-only plants.

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

## 4.2 천연가스 수입

## Natural Gas Imports

		수입량								수입액
		합계 <sup>1</sup>	카타르	호주	미국	말레이시아	오만	인도네시아	러시아	Imports value 백만(Mil) USD
		Total <sup>1</sup>	Qatar	Australia	United States	Malaysia	Oman	Indonesia	Russia	
		1,000 ton								
1990		2,237	-	-	0	-	-	2,237	-	460
1995		6,756	-	114	-	1,040	-	4,892	-	1,275
2000		15,239	3,251	54	0	2,529	1,619	6,633	-	3,882
2001		15,318	4,655	57	0	2,175	3,784	4,055	-	3,990
2002		17,993	5,123	176	0	2,400	3,970	5,256	-	4,120
2003		19,308	5,694	123	-	2,798	4,714	5,200	-	5,082
2004		21,781	5,818	285	0	4,638	4,411	5,290	-	6,552
2005		22,317	6,211	748	-	4,688	4,244	5,502	-	8,646
2006		25,256	6,458	701	-	5,546	5,221	5,060	-	11,925
2007		25,569	8,031	422	0	6,161	4,792	3,755	-	12,653
2008		27,259	8,744	398	-	6,247	4,544	3,053	-	19,806
2009		25,822	6,973	1,314	-	5,874	4,551	3,084	1,017	13,875
2010		32,603	7,449	1,030	232	4,745	4,557	5,451	2,933	17,006
2011		36,685	8,153	787	113	4,144	4,195	7,894	2,850	23,859
2012		36,184	10,278	832	57	4,082	4,127	7,445	2,163	27,364
2013		39,876	13,354	620	-	4,314	4,331	5,627	1,841	30,645
2014		37,107	12,853	836	-	3,673	3,726	5,176	1,913	31,403
2015		33,366	12,442	1,952	-	3,698	3,990	3,776	2,679	18,779
2016		33,453	11,880	4,695	28	3,813	4,081	4,362	1,851	12,170
2017		37,537	11,554	6,997	1,959	3,749	4,231	3,542	1,923	15,616
2018		44,015	14,245	7,871	4,658	3,702	4,282	3,447	1,930	23,189
2019		40,748	11,311	7,775	5,226	4,802	3,946	2,336	2,247	20,567
2020		39,982	9,087	7,972	5,762	4,918	3,900	2,699	2,019	15,716
2021 <sup>p</sup>		45,932	11,464	9,465	8,478	3,906	4,415	2,387	2,867	25,453
2020	9	2,935	581	842	249	419	237	196	64	773
	10	3,848	930	694	515	479	409	223	184	1,061
	11	3,582	909	882	351	345	411	245	190	1,118
	12	4,257	931	546	848	747	352	194	190	1,526
2021 <sup>p</sup>	1	4,424	1,235	561	605	411	417	300	259	1,830
	2	5,159	1,474	885	1,257	234	426	192	199	2,742
	3	4,194	1,034	1,154	412	402	416	175	182	1,839
	4	2,836	671	564	463	350	357	119	260	1,093
	5	3,391	1,000	391	470	598	295	119	256	1,384
	6	3,131	619	577	861	289	354	166	200	1,443
	7	4,019	877	933	973	302	479	182	-	2,002
	8	3,477	958	759	783	122	351	301	135	1,860
	9	3,702	808	878	827	304	235	182	405	2,114
	10	3,897	874	901	673	352	358	183	255	2,606
	11	3,846	975	917	568	234	302	128	524	3,098
	12	3,855	939	944	586	310	426	340	192	3,441
2022 <sup>p</sup>	1	4,999	938	893	866	537	582	312	320	5,689
	2	3,474	830	941	334	363	366	56	315	2,932
	3	4,952	830	1,562	510	653	427	262	191	5,035
	4	3,442	941	654	325	479	487	175	191	2,392
	5	3,384	794	852	369	244	365	262	245	2,448
	6	2,515	649	749	317	310	306	184	-	1,917
	7	3,252	591	900	331	491	369	190	66	3,357
	8	3,788	762	904	647	426	490	308	64	4,541
	9	4,217	856	946	686	493	301	535	-	6,201
2021 <sup>p</sup>	1-9	34,334	8,676	6,703	6,651	3,010	3,330	1,735	1,896	16,308
2022 <sup>p</sup>	1-9	34,024	7,190	8,402	4,385	3,996	3,692	2,285	1,391	34,512

1. 기타국가 포함  
자료: 한국무역협회

1. Includes imports from other countries.  
Source: Korea International Trade Association



#### 4.3 천연가스 소비

#### Natural Gas Consumption

		합계 <sup>1</sup>	발전			가스제조	에너지산업자체소비	산업
		Total <sup>1</sup>	Power generation	발전전용	열병합·열전용	Gas manufacturing	Transformation own use	Industry
				Electricity-only	CHP & Heat-only			
		1,000 ton						
1990		2,317	1,741	1,741	0	572	0	4
1995		6,979	3,562	1,680	1,882	3,408	0	9
2000		14,554	4,529	2,575	1,954	9,528	337	160
2001		15,986	4,850	3,004	1,846	10,299	398	438
2002		17,757	6,055	4,086	1,968	11,169	54	479
2003		18,610	6,049	4,116	1,933	11,939	164	458
2004		21,786	8,254	6,281	1,973	12,456	487	589
2005		23,298	8,623	6,664	1,959	13,978	211	486
2006		25,091	10,014	7,981	2,033	13,879	185	1,014
2007		26,659	11,529	7,823	3,706	14,350	136	645
2008		27,439	11,516	7,495	4,021	15,201	173	549
2009		26,031	9,900	6,421	3,479	15,328	52	750
2010		33,080	14,588	9,462	5,127	17,354	371	766
2011		35,601	16,171	12,707	3,465	18,090	571	769
2012		38,398	17,842	13,747	4,095	19,381	363	813
2013		40,205	19,864	15,663	4,201	19,400	144	798
2014		36,582	17,723	14,132	3,591	17,967	111	781
2015		33,438	15,782	12,533	3,249	16,732	56	866
2016		34,906	16,220	12,465	3,756	17,184	121	1,378
2017		36,378	16,421	12,581	3,840	18,199	363	1,403
2018		42,283	20,364	15,791	4,573	19,624	919	1,357
2019		41,028	19,406	15,201	4,205	18,633	1,513	1,479
2020		41,481	19,979	15,991	3,988	18,045	1,850	1,614
2021 <sup>p</sup>		45,862	23,249	16,943	6,306	19,118	1,892	1,612
2020	9	2,798	1,623	1,435	189	890	164	122
	10	3,068	1,588	1,353	236	1,201	169	109
	11	3,796	1,753	1,336	418	1,743	165	134
	12	5,375	2,328	1,732	596	2,714	194	139
2021 <sup>p</sup>	1	5,809	2,431	1,607	824	3,055	182	141
	2	4,453	1,933	1,288	645	2,270	134	117
	3	4,287	2,141	1,553	589	1,868	143	134
	4	3,436	1,817	1,359	457	1,340	151	129
	5	3,065	1,661	1,284	376	1,133	163	109
	6	3,067	1,813	1,423	390	957	159	139
	7	3,416	2,140	1,662	478	938	188	152
	8	3,083	1,895	1,465	430	884	159	146
	9	2,919	1,720	1,329	391	900	157	142
	10	3,301	1,814	1,369	444	1,253	144	92
	11	3,955	1,844	1,315	529	1,837	137	137
	12	5,072	2,040	1,289	752	2,684	175	172
2022 <sup>p</sup>	1	5,428	2,119	1,291	828	2,965	182	162
	2	4,789	1,894	1,165	729	2,587	158	151
	3	4,612	2,297	1,570	727	2,039	149	126
	4	3,392	1,746	1,272	474	1,397	134	115
	5	3,018	1,656	1,268	388	1,111	141	109
	6	2,945	1,686	1,203	483	1,000	117	143
	7	3,249	1,999	1,476	523	998	117	136
	8	2,959	1,782	1,336	446	908	121	149
	9	2,641	1,531	1,208	323	889	108	112
2021 <sup>p</sup>	1-9	33,535	17,551	12,970	4,581	13,344	1,436	1,210
2022 <sup>p</sup>	1-9	33,033	16,710	11,790	4,920	13,896	1,227	1,203

1. 일차에너지소비

자료: 한국가스공사, LNG직도입사.

1. Total primary energy consumption

Source: Korea Gas Corporation and LNG direct Importers.

## 4.4 도시가스수급

## City Gas Overview

	공급 Supply				소비 Consumption					
	프로판 투입(A) Propane	LNG 투입(B) LNG	도시가스 생산(A+B) <sup>1</sup> Production <sup>1</sup>	발전 <sup>2</sup> Power generation <sup>2</sup>	에너지산업 자체소비 Transformation own use	최종소비 TFC	산업 Industry	수송 Transport	가정 Residential	상업·공공 Commercial & Public
	TJ									
1990	-	31,117	31,117	-	-	42,350	9,821	-	19,024	13,506
1995	-	185,492	185,492	5,921	-	228,283	36,126	-	153,016	39,142
2000	-	518,610	518,610	11,701	-	523,759	138,504	-	307,858	77,397
2001	6,737	560,583	567,321	9,223	-	545,574	151,209	308	315,104	78,953
2002	6,264	607,929	614,193	9,557	-	598,917	166,811	3,333	339,514	89,259
2003	3,306	649,823	653,128	10,462	-	636,885	174,898	6,098	357,160	98,729
2004	3,371	677,981	681,352	11,062	-	666,193	183,470	9,916	361,589	111,218
2005	3,408	760,799	764,207	20,406	-	739,893	194,914	14,204	391,212	139,563
2006	1,955	755,390	757,345	22,291	-	752,087	202,937	19,893	386,542	142,714
2007	2,114	781,030	783,144	24,768	-	778,716	218,749	25,742	386,274	147,951
2008	2,229	827,384	829,613	27,817	-	821,937	248,404	32,523	390,608	150,401
2009	2,313	834,297	836,610	27,758	-	829,412	246,634	40,186	392,262	150,330
2010	2,287	944,574	946,861	33,514	-	936,200	306,857	46,544	424,334	158,465
2011	2,899	984,605	987,504	38,744	-	975,004	350,994	49,164	422,849	151,997
2012	2,834	1,058,096	1,060,930	50,204	-	1,024,273	395,377	52,182	424,828	151,886
2013	2,449	1,059,148	1,061,596	44,504	-	1,045,539	421,206	54,519	419,678	150,136
2014	571	980,905	981,476	37,472	57,182	899,656	321,715	54,696	382,703	140,543
2015	647	913,480	914,127	33,176	11,659	891,995	315,629	53,646	382,271	140,449
2016	738	938,171	938,908	30,707	3,367	918,072	312,177	53,152	403,906	148,837
2017	893	995,123	996,016	33,220	3,411	968,052	332,989	52,477	428,647	153,939
2018	964	1,073,038	1,074,003	42,067	49,625	996,177	328,349	51,840	456,391	159,597
2019	988	1,018,825	1,019,813	29,645	35,525	966,918	322,031	50,893	438,740	155,254
2020	1,033	986,708	987,742	24,364	19,591	947,573	307,517	45,994	456,373	137,689
2021 <sup>p</sup>	-	1,045,368	1,045,368	26,533	37,892	978,944	328,869	44,363	464,885	140,826
2020 9	4	48,643	48,647	774	1,275	46,260	23,557	3,755	10,811	8,137
10	4	65,692	65,696	1,339	1,838	58,433	24,670	3,740	21,828	8,196
11	6	95,330	95,336	2,537	1,780	84,770	27,788	3,738	41,660	11,585
12	11	148,419	148,430	4,955	3,119	127,787	32,774	3,777	74,475	16,762
2021 <sup>p</sup> 1	-	167,069	167,069	6,839	5,215	151,250	33,941	3,643	94,985	18,681
2	-	124,096	124,096	3,803	5,215	122,937	28,303	3,249	75,920	15,465
3	-	102,156	102,156	2,305	3,333	102,257	29,684	3,765	55,857	12,949
4	-	73,245	73,245	2,001	2,050	75,827	26,851	3,598	35,746	9,632
5	-	61,955	61,955	1,005	2,041	62,077	25,912	3,691	24,141	8,332
6	-	52,329	52,329	708	1,483	52,965	25,220	3,824	14,844	9,076
7	-	51,267	51,267	752	1,630	49,139	24,946	4,016	9,919	10,258
8	-	48,319	48,319	632	1,609	47,016	24,060	3,839	9,286	9,830
9	-	49,231	49,231	563	2,567	45,245	23,425	3,599	9,775	8,447
10	-	68,495	68,495	1,391	4,123	57,874	25,746	3,679	19,550	8,899
11	-	100,463	100,463	2,152	4,668	86,352	28,194	3,648	42,627	11,882
12	-	146,741	146,741	4,382	3,957	126,007	32,588	3,810	72,233	17,375
2022 <sup>p</sup> 1	-	162,133	162,133	5,821	3,796	148,179	32,832	3,604	92,653	19,090
2	-	141,469	141,469	5,743	2,415	137,327	30,073	3,236	85,935	18,084
3	-	111,486	111,486	2,647	3,406	109,910	27,686	3,506	64,271	14,447
4	-	76,410	76,410	1,911	3,501	81,196	27,943	3,484	39,614	10,155
5	-	60,768	60,768	1,259	2,178	61,358	26,784	3,633	21,031	9,910
6	-	54,678	54,678	930	3,073	52,863	25,645	3,544	13,014	10,659
7	-	54,580	54,580	1,066	3,283	51,786	26,019	3,859	11,118	10,790
8	-	49,665	49,665	710	2,195	47,079	22,986	3,815	8,749	11,529
9	-	48,631	48,631	586	1,971	46,320	22,110	3,574	10,864	9,771
2021 <sup>p</sup> 1-9	-	729,669	729,669	18,608	25,143	708,712	242,341	33,226	330,475	102,670
2022 <sup>p</sup> 1-9	-	759,819	759,819	20,671	25,820	736,019	242,079	32,254	347,249	114,436

1. 1990년에는 납사 포함.

2. 열병합, 열전용

자료: 한국도시가스협회

1. Includes naphtha production for 1990 data.

2. Includes CHP and heat-only plants.

Source: Korea City Gas Association

## 5. 석유

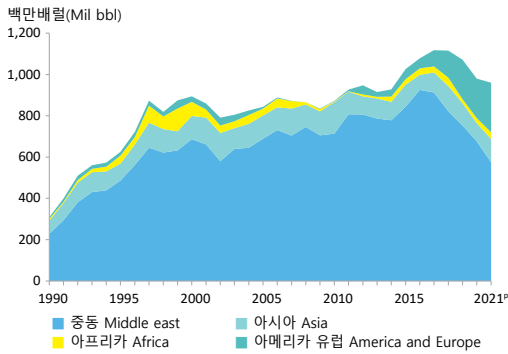
### Oil

- 5.1 원유 및 정제원료 수급  
Crude Oil & Refinery Feedstocks Overview
- 5.2 계약형태별 원유 수입  
Crude Oil Imports by Contract Type
- 5.3 국별 원유 수입  
Crude Oil Imports by Country
- 5.4 석유제품 전환 투입  
Petroleum Refining and Energy Transformation Processes
- 5.5 석유제품 수급  
Petroleum Products Overview
  - 5.5.1 프로판  
Propane
  - 5.5.2 부탄  
Butane
  - 5.5.3 휘발유  
Gasoline
  - 5.5.4 항공유  
Air fuel
  - 5.5.5 등유  
Kerosene
  - 5.5.6 경유  
Diesel
  - 5.5.7 중유  
Fuel Oil
  - 5.5.8 납사  
Naphtha

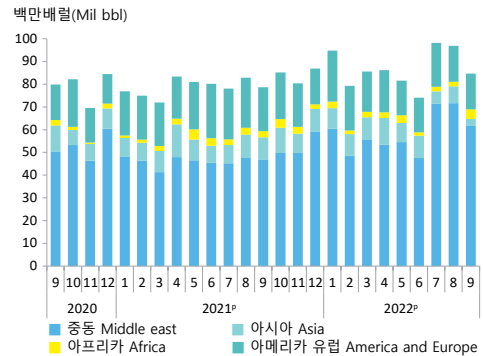


## ● 원유 수입 Crude Oil Imports

〈1990~2021<sup>o</sup>〉

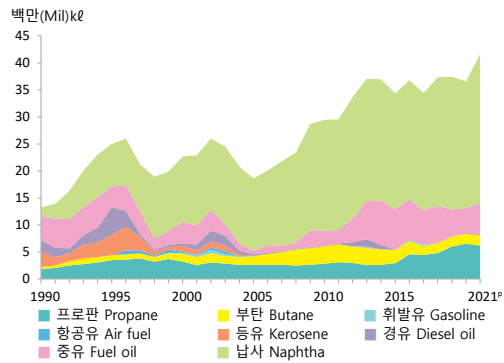


〈월별 Monthly〉

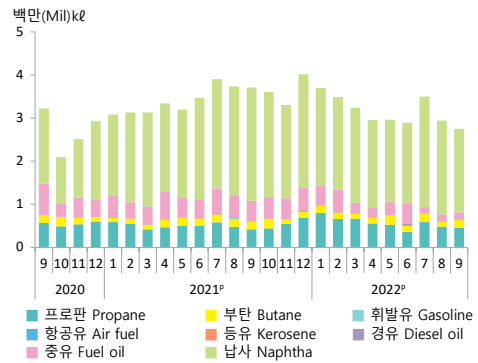


## ● 석유제품 수입 Petroleum Products Imports

〈1990~2021<sup>o</sup>〉

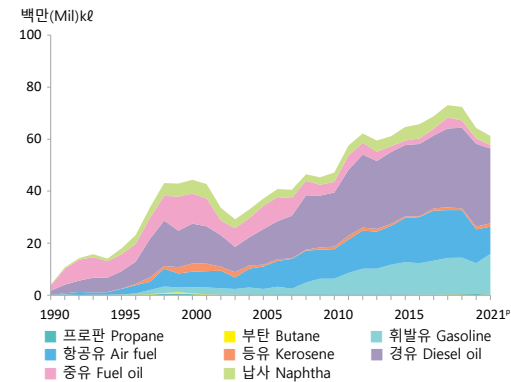


〈월별 Monthly〉

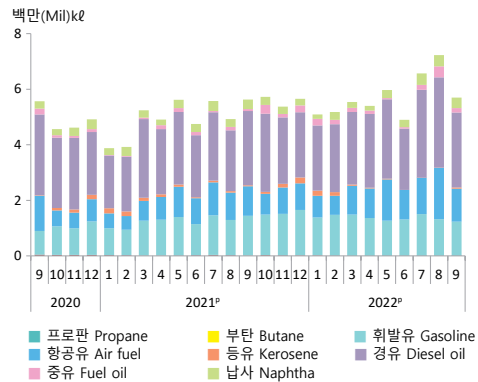


## ● 석유제품 수출 Petroleum Products Exports

〈1990~2021<sup>o</sup>〉

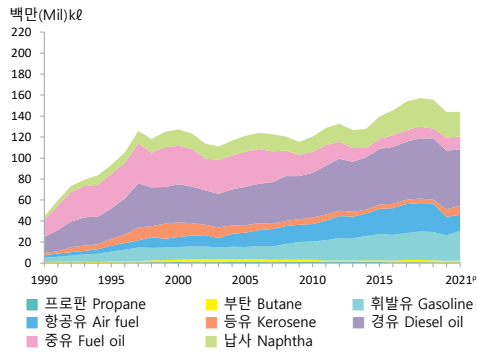


〈월별 Monthly〉

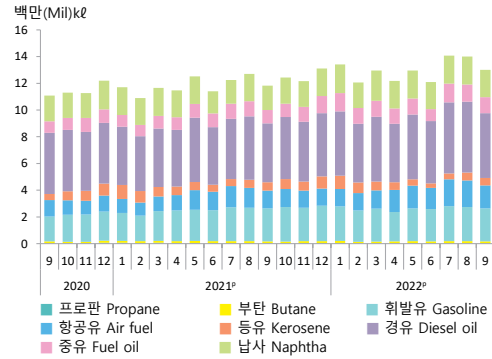


## ● 정제 생산 Petroleum Products Production

〈1990~2021<sup>o</sup>〉

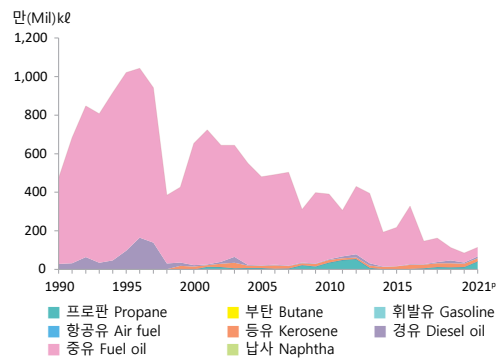


〈월별 Monthly〉

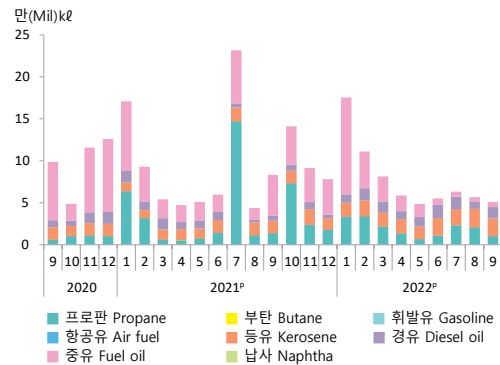


## ● 석유제품 발전 및 열생산투입 Power Generation & Others

〈1990~2021<sup>o</sup>〉

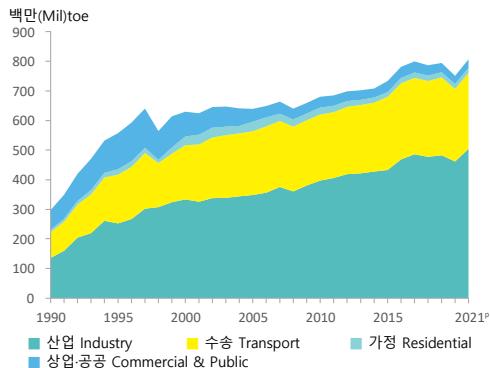


〈월별 Monthly〉

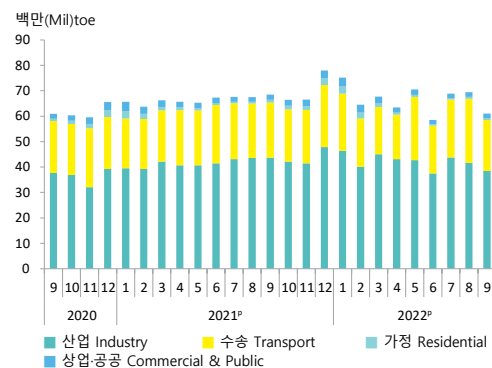


## ● 석유제품 최종에너지 부문별 소비 Final Energy Consumption of Petroleum Products by Sector

〈1990~2021<sup>o</sup>〉



〈월별 Monthly〉



## 5.1 원유 및 정제원료 수급

		생산	수입	수출	재고	일차에너지공급
		Production	Imports	Exports	Stock	TPES
		1,000 bbl				
1990		-	310,494	-	4,500	313,963
1995		-	644,020	167	14,224	649,105
2000		-	899,809	743	8,917	898,624
2001		-	868,237	770	8,491	869,465
2002		-	800,488	932	11,089	796,972
2003		-	812,494	326	32,373	790,885
2004		-	830,674	96	30,300	832,651
2005		407	851,327	29	20,209	861,934
2006		333	892,296	21	28,074	884,743
2007		236	873,674	489	17,631	884,340
2008		155	866,659	1,686	16,123	866,575
2009		321	837,008	2,233	11,682	839,537
2010		380	874,666	3,330	13,577	869,820
2011		285	928,736	4,039	17,634	921,053
2012		263	949,058	2,473	19,677	944,792
2013		290	918,634	1,988	26,069	910,875
2014		198	933,736	992	34,161	924,848
2015		115	1,030,415	2,400	44,935	1,017,356
2016		104	1,084,066	3,597	49,109	1,076,400
2017		217	1,124,938	2,447	50,741	1,121,075
2018		189	1,126,403	4,124	59,367	1,113,842
2019		155	1,075,973	769	52,761	1,081,117
2020		103	987,422	448	50,884	988,952
2021 <sup>P</sup>		36	973,734	1,782	48,955	973,916
2020	9	1	80,806	-	53,653	77,448
	10	-	82,992	17	57,563	79,066
	11	7	70,679	0	50,354	77,896
	12	5	84,665	-	50,884	84,139
2021 <sup>P</sup>	1	5	77,158	53	48,873	79,121
	2	2	75,204	45	49,965	74,070
	3	5	72,667	44	43,609	78,983
	4	5	84,324	42	50,059	77,836
	5	5	81,776	131	49,491	82,218
	6	0	82,136	168	54,177	77,283
	7	3	79,392	116	50,609	82,847
	8	2	84,063	148	47,944	86,583
	9	2	80,224	151	47,527	80,492
	10	2	87,162	67	49,862	84,762
	11	3	81,366	306	48,749	82,175
	12	2	88,261	511	48,955	87,546
2022 <sup>P</sup>	1	8	95,915	380	53,329	91,170
	2	-	80,835	102	52,834	81,228
	3	-	87,579	230	52,810	87,053
	4	-	87,001	233	56,050	83,528
	5	-	82,683	101	52,510	86,122
	6	-	74,588	161	46,835	80,101
	7	-	99,742	100	53,108	93,369
	8	-	98,674	143	56,827	94,813
	9	8	86,020	73	56,258	86,524
2021 <sup>P</sup>	1-9	29	716,944	898	47,527	719,433
2022 <sup>P</sup>	1-9	17	793,038	1,523	56,258	783,910

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

2. 첨가물과 기타탄화수소

3. 국내 모든 정유사 정제능력의 합계

자료: 한국석유공사-PEDSIS, 대한석유협회

## Crude Oil &amp; Refinery Feedstocks Overview

전환공정 <sup>1</sup>	원유	정제원료	기타 <sup>2</sup>	정제능력 <sup>3</sup>	
Transformation <sup>1</sup> processes	Crude oil	Refinery feedstocks	Others <sup>2</sup>	Refining capacity <sup>3</sup>	
1,000 bbl				1,000BPSD	
313,973	312,045	1,928	-	840	1990
649,293	631,266	18,027	-	1,818	1995
897,543	892,224	6,031	-712	2,438	2000
869,395	860,166	10,004	-775	2,438	2001
809,469	787,290	22,901	-722	2,438	2002
794,658	783,518	11,343	-202	2,438	2003
832,238	826,967	4,904	367	2,735	2004
860,864	852,544	7,603	717	2,735	2005
881,453	878,417	2,230	806	2,735	2006
882,291	882,409	-925	807	2,765	2007
863,787	865,680	-3,270	1,377	2,785	2008
835,024	838,419	-4,406	1,012	2,835	2009
869,469	872,263	-4,157	1,363	2,845	2010
926,980	924,447	1,399	1,134	2,934	2011
955,613	946,046	8,668	899	2,949	2012
922,923	909,539	12,673	711	2,949	2013
939,156	918,377	21,601	-822	3,009	2014
1,029,791	1,014,557	14,689	546	3,059	2015
1,085,610	1,072,234	12,643	733	3,064	2016
1,153,915	1,116,614	36,670	631	3,105	2017
1,175,276	1,106,317	68,740	219	3,204	2018
1,159,008	1,064,217	94,852	-62	3,204	2019
1,089,285	980,379	108,939	-33	3,204	2020
1,089,040	961,384	128,325	-668	3,204	2021 <sup>P</sup>
85,477	76,616	8,851	10	3,204	9 2020
86,027	78,516	7,462	49	3,204	10
85,975	76,291	9,681	3	3,204	11
91,670	83,601	8,092	-23	3,204	12
88,435	78,813	9,708	-86	3,204	1 2021 <sup>P</sup>
82,504	73,476	9,011	16	3,204	2
87,083	77,739	9,361	-17	3,204	3
86,403	77,200	9,260	-58	3,204	4
94,742	81,894	12,904	-56	3,204	5
87,032	76,400	10,714	-82	3,204	6
93,089	80,999	12,170	-80	3,204	7
96,432	84,883	11,616	-66	3,204	8
89,825	78,884	11,018	-77	3,204	9
94,217	83,858	10,376	-18	3,204	10
91,607	80,874	10,800	-67	3,204	11
97,671	86,362	11,387	-78	3,204	12
99,588	89,582	10,207	-201	3,204	1 2022 <sup>P</sup>
89,079	79,853	9,367	-142	3,204	2
96,985	85,511	11,631	-156	3,204	3
91,386	83,526	8,002	-142	3,204	4
95,917	84,897	11,027	-7	3,204	5
91,199	79,069	12,232	-101	3,204	6
103,086	91,705	11,420	-39	3,204	7
103,105	93,673	9,454	-21	3,204	8
95,878	85,370	10,597	-88	3,204	9
805,546	710,289	95,762	-505	3,204	1-9 2021 <sup>P</sup>
866,223	773,185	93,935	-897	3,204	1-9 2022 <sup>P</sup>

1. It is amount input to the process of refining input, energy industry self-consumption, etc. Negative means that the energy commodity was produced through this process.

2. Additives and other hydrocarbons

3. Sum of capacities of all refineries in South Korea

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

## 5.2 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	Spots	Subtotal <sup>1</sup>	Long-term	Spots
		1,000 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
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	65,111
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
2021 <sup>p</sup>		960,147	574,430	483,832	85,262	113,932	4,965	108,967
2020	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
	12	86,925	59,292	47,935	11,356	9,875	-	9,875
2022 <sup>p</sup>	1	94,792	60,465	49,631	10,099	9,028	-	9,028
	2	79,284	48,527	38,783	9,744	9,513	-	9,513
	3	85,558	55,742	50,464	5,278	9,693	-	9,693
	4	86,216	53,456	46,312	7,144	11,721	-	11,721
	5	81,610	54,532	41,795	12,737	8,392	581	7,811
	6	74,055	47,520	40,843	6,677	9,853	-	9,853
	7	98,176	71,343	47,727	23,616	5,480	-	5,480
	8	96,917	71,657	41,662	29,995	7,424	1,339	6,085
	9	84,633	61,702	37,822	23,880	3,090	-	3,090
2021 <sup>p</sup>	1-9	707,733	415,593	357,776	53,793	84,495	4,199	80,296
2022 <sup>p</sup>	1-9	781,240	524,945	395,039	129,171	74,193	1,920	72,273

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 Spots	소계 <sup>1</sup> Subtotal <sup>1</sup>	장기계약 Long-term	현물 Spots	장기계약 Long-term	현물 Spots		
1,000 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
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
32,000	6,567	25,433	239,785	59,764	180,021	57.8	41.6		2021 <sup>p</sup>
2,407	-	2,407	15,586	3,751	11,835	58.1	40.0	9	2020
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	
2,019	628	1,391	15,740	3,971	11,769	60.4	39.6	12	
2,839	-	2,839	22,461	3,940	18,520	56.5	42.7	1	2022 <sup>p</sup>
1,603	628	975	19,641	3,997	15,644	54.8	45.2	2	
2,459	626	1,832	17,664	1,962	15,703	62.0	38.0	3	
2,485	600	1,885	18,554	5,563	12,991	60.9	39.1	4	
3,398	601	2,796	15,288	4,334	10,954	58.0	42.0	5	
1,508	627	881	15,174	3,969	11,205	71.5	42.9	6	
2,043	-	2,043	19,309	3,986	15,323	66.3	49.4	7	
1,982	600	1,381	15,855	3,046	12,809	59.0	53.6	8	
4,154	572	3,582	15,687	3,903	11,784	50.0	50.0	9	
23,137	5,338	17,799	184,508	44,444	140,064	58.2	41.3	1-9	2021 <sup>p</sup>
22,469	4,254	18,215	159,633	34,700	124,933	55.8	44.1	1-9	2022 <sup>p</sup>

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

Source: Korea National Oil Corporation-PEDSIS

## 5.3 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 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
2000		893,943	686,916	264,925	128,064	81,251	66,627	46,632	45,722
2001		859,367	661,649	255,432	128,405	80,413	64,407	53,639	42,157
2002		790,992	579,865	240,765	105,905	51,512	56,996	42,053	35,330
2003		804,809	639,453	250,473	138,869	63,682	65,885	40,927	46,780
2004		825,790	645,183	253,849	145,598	64,974	64,659	32,832	45,581
2005		843,203	689,356	249,337	150,608	70,767	79,679	38,799	53,122
2006		888,794	730,843	261,563	158,865	75,058	92,620	36,273	49,871
2007		872,541	704,020	249,887	141,887	85,793	94,031	14,760	46,088
2008		864,872	746,458	262,637	158,109	73,016	104,593	16,670	64,402
2009		835,085	705,363	254,799	114,592	81,437	100,090	17,507	53,673
2010		872,415	713,647	276,787	105,656	72,605	103,079	12,152	64,362
2011		927,044	807,908	291,348	87,234	87,184	117,370	16,715	93,146
2012		947,292	805,971	303,049	86,536	56,146	137,647	8,761	103,825
2013		915,075	786,813	286,588	110,809	48,214	139,853	3,543	86,090
2014		927,524	778,923	292,592	108,472	44,923	136,546	6,516	100,127
2015		1,026,107	844,637	305,779	99,835	42,400	141,856	2,897	123,228
2016		1,078,119	926,201	324,448	87,743	111,942	159,273	16,317	88,150
2017		1,118,167	913,446	319,221	90,971	147,873	160,368	3,876	64,934
2018		1,116,281	820,994	323,174	72,030	58,202	162,005	1,471	65,980
2019		1,071,923	752,564	296,871	88,811	33,230	150,587	360	64,293
2020		980,259	676,409	325,808	77,563	-	129,699	3,907	59,735
2021 <sup>p</sup>		960,147	574,430	281,774	56,809	-	101,721	6,574	50,610
2020	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
	12	86,925	59,292	33,351	4,404	-	9,995	-	3,831
2022 <sup>p</sup>	1	94,792	60,465	31,602	5,322	-	11,836	-	5,627
	2	79,284	48,527	24,595	2,342	-	10,062	-	4,251
	3	85,558	55,742	28,060	4,432	-	11,243	-	2,574
	4	86,216	53,456	26,003	5,963	-	9,683	525	3,419
	5	81,610	54,532	27,181	4,898	-	6,783	-	5,041
	6	74,055	47,520	21,179	6,832	-	6,558	-	3,478
	7	98,176	71,343	28,220	15,830	-	9,123	2,504	3,654
	8	96,917	71,657	37,157	9,194	-	6,993	500	7,103
	9	84,633	61,702	28,798	8,411	-	8,885	-	3,096
2021 <sup>p</sup>	1-9	707,733	415,593	198,662	44,867	-	74,797	5,556	37,512
2022 <sup>p</sup>	1-9	781,240	524,945	252,796	63,223	-	81,164	3,529	38,242

1. 기타 국가 물량 포함.

2. 아프리카 국가는 알제리, 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>	아프리카 <sup>3</sup>	유럽 <sup>4</sup>		
소계 <sup>1</sup>	인도네시아	말레이시아	호주	브루나이	현물	장기계약	현물		
Subtotal <sup>1</sup>	Indonesia	Malaysia	Australia	Brunei	Africa <sup>2</sup>	America <sup>3</sup>	Europe <sup>4</sup>		
1,000 bbl									
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
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
113,932	586	315	22,009	-	32,000	204,188	35,597		2021 <sup>p</sup>
11,413	-	-	4,010	-	2,407	13,521	2,064	9	2020
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	
9,875	-	-	1,382	-	2,019	12,691	3,049	12	
9,028	-	-	650	-	2,839	21,944	516	1	2022 <sup>p</sup>
9,513	-	-	1,917	-	1,603	17,484	2,157	2	
9,693	-	-	1,300	-	2,459	17,664	-	3	
11,721	-	399	1,709	-	2,485	16,486	2,069	4	
8,392	-	-	3,929	581	3,398	13,299	1,989	5	
9,853	-	250	2,530	-	1,508	14,109	1,065	6	
5,480	-	-	1,333	-	2,043	17,493	1,816	7	
7,424	-	-	3,313	-	1,982	15,855	-	8	
3,090	-	-	1,274	-	4,154	13,631	2,056	9	
84,495	586	315	15,919	-	23,137	157,829	26,679	1-9	2021 <sup>p</sup>
74,193	-	649	17,956	581	22,469	147,965	11,668	1-9	2022 <sup>p</sup>

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

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

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

4. Europe nations includes Norway, UK, etc.

Source: Korea National Oil Corporation-PEDSIS

## 5.4 석유제품 전환 투입

		석유제품 정제 Petroleum Refining						
		원유 및 정제원료 투입 Petroleum Refining Inputs	정제생산 Petroleum Products	1,000 bbl				
				프로판 Propane	부탄 Butane	휘발유 Gasoline	항공유 Air Fuel	등유 Kerosene
1990		313,973	300,671	3,345	8,812	23,985	16,405	13,600
1995		649,293	630,447	4,506	11,510	60,445	34,981	40,852
2000		897,543	898,150	10,905	25,044	76,336	59,568	87,824
2001		869,395	875,425	10,407	28,928	76,502	65,251	75,525
2002		809,469	818,580	9,626	30,835	76,744	67,734	62,721
2003		794,658	797,438	10,526	29,794	71,385	55,020	64,500
2004		832,238	841,987	11,033	30,194	74,969	76,644	50,535
2005		860,864	886,181	11,182	28,887	73,877	84,904	45,271
2006		881,453	894,250	11,209	26,973	80,616	95,490	41,220
2007		882,291	890,883	10,227	26,000	78,375	105,699	30,021
2008		863,787	875,161	12,968	23,218	93,710	107,675	31,846
2009		835,024	846,060	15,274	21,128	106,615	102,664	33,348
2010		869,469	900,247	17,149	18,282	108,921	105,458	39,176
2011		926,980	944,587	10,992	14,207	122,473	118,137	35,813
2012		955,613	978,095	12,544	13,798	136,490	130,697	32,625
2013		922,923	967,180	11,373	14,405	134,758	129,990	28,204
2014		939,156	988,461	11,467	17,560	145,127	135,208	23,097
2015		1,029,791	1,075,277	10,894	18,496	157,001	151,720	25,224
2016		1,085,610	1,118,794	8,127	18,142	154,036	160,738	25,688
2017		1,153,915	1,185,996	10,509	23,422	160,624	174,006	25,606
2018		1,175,276	1,207,900	9,127	24,200	169,511	170,998	26,829
2019		1,159,008	1,196,345	6,833	22,216	170,280	170,766	21,485
2020		1,089,285	1,112,863	4,713	19,105	151,393	112,582	44,372
2021 <sup>p</sup>		1,089,040	1,114,913	7,234	17,857	178,737	97,182	53,548
2020	9	85,477	85,951	235	1,714	11,646	7,782	2,885
	10	86,027	88,385	337	1,227	12,777	6,707	4,246
	11	85,975	87,430	383	1,196	12,857	6,443	4,719
	12	91,670	95,178	880	1,611	13,698	7,588	5,555
2021 <sup>p</sup>	1	88,435	91,205	773	1,446	13,205	6,577	6,612
	2	82,504	84,821	733	1,464	12,005	6,070	5,512
	3	87,083	89,986	770	1,447	14,045	6,940	4,437
	4	86,403	88,425	621	1,558	14,432	7,223	4,007
	5	94,742	96,571	490	1,757	14,662	9,251	3,813
	6	87,032	88,606	545	1,510	14,565	8,685	3,364
	7	93,089	94,895	383	1,685	15,926	10,042	3,294
	8	96,432	98,199	512	1,542	15,737	9,322	3,843
	9	89,825	91,497	528	1,364	15,524	8,394	3,936
	10	94,217	96,045	489	1,293	16,248	8,456	4,747
	11	91,607	93,948	721	1,410	15,705	8,082	4,231
	12	97,671	100,716	670	1,380	16,682	8,139	5,753
2022 <sup>p</sup>	1	99,588	102,475	596	1,657	16,289	8,117	6,298
	2	89,079	92,236	257	1,325	14,717	8,149	5,067
	3	96,985	99,769	261	1,492	15,465	8,570	4,209
	4	91,386	93,810	306	1,522	13,865	10,429	3,576
	5	95,917	99,545	358	1,639	15,434	10,737	2,954
	6	91,199	94,348	454	1,400	15,240	9,941	2,127
	7	103,086	106,427	278	1,790	16,484	12,600	2,793
	8	103,105	106,414	194	1,848	16,088	12,532	3,642
	9	95,878	99,219	197	1,621	15,500	10,865	3,527
2021 <sup>p</sup> 1-9		805,546	824,205	5,354	13,774	130,102	72,505	38,817
2022 <sup>p</sup> 1-9		866,223	894,243	2,901	14,294	139,083	91,940	34,192

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

2. 용제, 윤활유, 아스팔트, 파라핀왁스, 석유코크, 기타석유제품 등

자료: 한국석유공사-PEDSIS

## Petroleum Refining and Energy Transformation Processes

				발전 및 열생산 투입 <sup>1)</sup> Power Generation & Others <sup>1)</sup>				
				발전전용	열병합	열전용		
경유 Diesel	중유 Fuel Oil	납사 Naphtha	기타 <sup>2)</sup> Others <sup>2)</sup>	Electricity-only	CHP	Heat-only		
1,000 bbl								
95,010	102,705	31,151	5,659	29,720	-	0		1990
181,389	208,597	76,620	11,545	62,201	-	2,059		1995
228,204	230,510	142,054	37,706	32,247	6,281	2,715		2000
218,943	225,792	135,983	38,095	35,154	6,375	3,191		2001
205,437	189,808	133,103	42,572	30,017	6,386	3,387		2002
200,644	204,384	116,501	44,684	30,515	6,110	3,840		2003
215,217	202,451	131,886	49,057	24,114	5,756	4,298		2004
229,813	211,249	138,131	62,867	21,710	4,013	4,062		2005
236,329	207,786	142,343	52,285	23,530	3,644	3,533		2006
250,438	185,083	149,630	55,411	25,439	2,737	3,213		2007
267,800	151,959	124,344	61,642	13,711	2,054	2,385		2008
258,387	126,246	116,317	66,081	19,584	2,229	2,306		2009
267,196	125,491	133,950	84,626	18,201	1,767	2,403		2010
292,885	124,722	149,304	76,055	13,728	707	1,709		2011
309,772	102,477	157,199	82,493	22,222	176	1,300		2012
299,242	81,718	160,125	107,364	22,726	235	1,274		2013
315,056	55,781	166,557	118,608	10,433	592	1,036		2014
334,365	59,145	198,260	120,171	12,079	773	767		2015
339,998	72,756	213,617	125,690	18,500	807	1,251		2016
347,167	70,065	249,148	125,448	7,042	1,019	1,184		2017
360,752	70,667	248,724	127,093	8,016	591	1,099		2018
367,540	59,492	254,353	123,381	5,287	397	1,711		2019
351,861	77,276	224,925	126,636	3,377	449	1,594		2020
337,726	77,542	215,967	129,119	3,671	408	1,759		2021 <sup>P</sup>
28,783	5,350	17,769	9,787	575	11	44	9	2020
28,951	5,645	17,299	11,196	197	44	111	10	
27,727	6,602	16,959	10,543	580	31	166	11	
28,599	6,408	19,747	11,092	499	22	308	12	
27,469	5,432	19,127	10,564	448	18	316	1	2021 <sup>P</sup>
25,749	5,340	18,444	9,504	214	8	224	2	
27,580	5,883	19,246	9,637	182	14	173	3	
26,637	5,971	18,463	9,514	208	5	110	4	
30,266	6,512	18,942	10,878	234	33	71	5	
27,103	6,405	15,240	11,189	287	53	46	6	
28,358	7,121	16,229	11,858	534	38	85	7	
29,896	7,111	18,738	11,497	202	14	82	8	
27,688	6,355	16,769	10,939	438	30	79	9	
29,149	6,285	18,010	11,366	384	51	118	10	
28,168	7,042	17,718	10,870	322	56	166	11	
29,663	8,086	19,039	11,303	218	89	290	12	
30,312	8,646	19,627	10,933	763	138	353	1	2022 <sup>P</sup>
27,607	7,467	17,478	10,169	412	144	294	2	
30,500	7,551	20,781	10,940	366	36	200	3	
27,485	7,256	18,971	10,400	237	19	143	4	
30,480	7,547	19,291	11,106	286	29	19	5	
29,327	5,633	18,723	11,503	280	81	39	6	
33,467	8,840	19,193	10,983	325	133	52	7	
33,393	8,104	19,278	11,334	328	122	18	8	
30,450	7,636	18,664	10,758	257	67	42	9	
250,745	56,129	161,200	95,579	2,747	212	1,185	1-9	2021 <sup>P</sup>
273,021	68,680	172,006	98,125	3,254	769	1,161	1-9	2022 <sup>P</sup>

1. Power generation and heat production inputs of petroleum products

2. Includes solvent, lubricant, asphalt, paraffin wax, petroleum coke, etc.

Source: Korea National Oil Corporation-PEDSIS

## 5.5 석유제품 수급

	공급 Supply						
	수입	수출	국제병커링	재고	일차에너지공급	정제생산	
	Imports	Exports	International Bunkers	Stock	TPES	Petroleum Products	
	1,000 bbl						
1990	101,248	27,184	28,800	19,576	40,098	300,671	
1995	205,428	122,630	65,812	37,636	15,703	630,447	
2000	204,301	303,723	86,266	49,343	-192,548	898,150	
2001	204,757	292,469	84,520	48,743	-171,636	875,425	
2002	228,543	235,567	85,181	42,770	-86,232	818,580	
2003	219,897	203,343	90,960	41,638	-73,245	797,438	
2004	195,110	227,306	95,034	49,853	-135,444	841,987	
2005	179,354	262,647	95,725	42,588	-169,499	886,181	
2006	191,560	278,632	90,973	45,528	-181,396	894,250	
2007	209,130	279,659	94,500	43,415	-162,651	890,883	
2008	224,614	317,870	88,709	38,834	-177,384	875,161	
2009	267,832	312,654	81,534	35,815	-123,336	846,060	
2010	276,849	340,597	87,436	40,346	-153,952	900,247	
2011	279,260	394,944	86,801	39,836	-201,682	944,587	
2012	309,599	425,574	85,120	46,527	-207,786	978,095	
2013	329,205	429,291	85,548	49,243	-186,766	967,180	
2014	326,623	448,822	86,802	49,361	-209,090	988,461	
2015	307,875	477,400	94,240	51,399	-265,799	1,075,277	
2016	334,608	487,716	105,124	50,162	-255,629	1,118,794	
2017	314,487	509,113	103,695	51,867	-299,983	1,185,996	
2018	341,628	531,563	102,293	62,772	-303,132	1,207,900	
2019	352,147	522,099	94,656	54,709	-256,545	1,196,345	
2020	347,302	468,529	90,868	53,557	-210,942	1,112,863	
2021 <sup>p</sup>	392,354	446,562	90,016	53,052	-143,765	1,114,913	
2020	9	29,647	40,018	7,097	56,975	-12,916	85,951
	10	20,331	33,809	7,430	53,742	-17,675	88,385
	11	23,732	33,619	8,004	51,197	-15,347	87,430
	12	28,294	35,696	7,918	53,557	-17,681	95,178
2021 <sup>p</sup>	1	28,875	28,944	7,090	57,536	-11,183	91,205
	2	30,032	29,539	5,978	60,245	-8,194	84,821
	3	29,128	37,599	7,429	56,386	-12,042	89,986
	4	30,584	34,659	7,214	55,616	-10,518	88,425
	5	30,929	40,031	7,167	54,431	-15,084	96,571
	6	32,973	35,488	6,581	54,031	-8,696	88,606
	7	36,854	41,584	7,204	55,301	-13,204	94,895
	8	34,729	36,398	8,034	62,265	-16,667	98,199
	9	34,864	41,007	7,501	58,418	-9,798	91,497
	10	34,011	41,635	8,597	58,230	-16,032	96,045
	11	31,488	38,991	8,247	56,398	-13,919	93,948
	12	37,887	40,687	8,974	53,052	-8,427	100,716
2022 <sup>p</sup>	1	36,179	36,958	8,994	57,087	-13,854	102,475
	2	33,031	37,918	7,427	60,066	-15,248	92,236
	3	31,552	40,394	8,663	60,872	-18,291	99,769
	4	28,691	39,209	7,835	61,391	-19,753	93,810
	5	28,596	43,224	8,208	56,162	-17,610	99,545
	6	26,544	35,849	7,623	59,635	-20,332	94,348
	7	34,130	47,132	9,124	61,352	-23,844	106,427
	8	28,406	50,948	8,880	54,591	-24,169	106,414
	9	26,744	42,065	8,070	56,057	-24,857	99,219
2021 <sup>p</sup> 1-9		288,968	325,249	64,198	58,418	-105,387	824,205
2022 <sup>p</sup> 1-9		273,872	373,699	74,823	56,057	-177,956	894,243

1. 가정, 상업, 공공부문 합계  
 자료: 한국석유공사-PEDSIS

## Petroleum Products Overview

소비 Consumption							
발전 및 열생산 투입  Power Generatoin & Others	에너지산업 자체소비  Transformation Own Use	최종소비					
		TFC	산업 Industry	수송 Transport	건물 <sup>1</sup> Building <sup>1</sup>		
1,000 bbl							
29,720	6,177	298,791	136,088	87,424	75,279		1990
64,260	13,730	558,685	253,191	164,992	140,503		1995
41,243	36,267	630,544	334,302	183,621	112,622		2000
44,720	32,992	625,752	326,851	192,874	106,027		2001
39,790	32,289	646,205	338,473	205,299	102,433		2002
40,464	31,979	648,500	339,475	211,798	97,227		2003
34,169	32,274	642,486	345,018	212,454	85,014		2004
29,785	32,920	640,864	349,108	215,907	75,849		2005
30,707	32,838	650,245	357,382	223,716	69,147		2006
31,389	34,043	664,737	376,104	223,823	64,809		2007
18,150	38,291	641,487	361,752	218,940	60,795		2008
24,119	36,935	660,470	381,381	220,471	58,619		2009
22,370	33,486	681,595	397,694	223,353	60,548		2010
16,144	36,212	685,590	406,387	222,535	56,668		2011
23,699	38,174	699,879	419,861	227,457	52,561		2012
24,235	38,481	703,082	422,641	230,691	49,749		2013
12,062	39,214	709,141	428,460	232,807	47,873		2014
13,619	45,788	734,541	433,558	247,511	53,472		2015
20,557	46,091	782,758	469,195	257,307	56,256		2016
9,245	40,467	801,275	487,121	257,708	56,447		2017
9,706	41,509	788,210	478,445	256,066	53,700		2018
7,396	41,642	796,132	483,878	263,189	49,065		2019
5,420	40,956	752,269	462,169	245,380	44,720		2020
5,838	39,571	808,319	505,759	256,498	46,062		2021 <sup>p</sup>
630	3,108	60,924	37,718	20,372	2,834	9	2020
352	3,202	60,305	36,959	20,032	3,315	10	
777	3,129	59,598	32,031	23,175	4,392	11	
829	3,419	65,574	39,261	20,436	5,877	12	
781	3,541	65,620	39,526	19,579	6,514	1	2021 <sup>p</sup>
446	3,272	63,714	39,269	19,650	4,796	2	
369	3,425	66,263	42,184	20,066	4,013	3	
323	3,218	65,664	40,731	21,668	3,265	4	
337	3,432	65,259	40,648	21,665	2,945	5	
386	3,339	67,354	41,507	22,895	2,952	6	
657	1,934	67,619	43,073	21,997	2,549	7	
298	3,572	67,498	43,640	21,364	2,494	8	
547	3,338	68,440	43,716	21,645	3,079	9	
554	2,688	66,413	42,143	20,496	3,775	10	
544	3,424	66,489	41,446	21,072	3,970	11	
597	4,390	77,986	47,876	24,400	5,710	12	
1,254	4,465	75,169	46,360	22,488	6,322	1	2022 <sup>p</sup>
851	3,868	64,539	40,122	18,949	5,468	2	
603	4,139	67,673	45,059	18,591	4,023	3	
399	3,363	63,468	43,151	17,492	2,825	4	
334	3,905	70,472	42,713	24,926	2,834	5	
400	3,688	58,522	37,492	18,810	2,220	6	
510	3,692	68,905	43,780	22,748	2,377	7	
468	4,242	69,420	41,692	25,118	2,610	8	
366	3,729	61,055	38,420	20,119	2,516	9	
4,143	29,070	597,430	374,294	190,530	32,607	1-9	2021 <sup>p</sup>
5,184	35,091	599,225	378,790	189,241	31,195	1-9	2022 <sup>p</sup>

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

## 5.5.1 프로판

## Propane

		공급 Supply					소비 Consumption					
		수입  Imports	수출  Exports	재고  Stock	일차에너지 공급  TPES	정제생산  Petroleum Products	발전 및 열생산 투입  Power Generatoin & Others	에너지산업자체 소비  Transformation own use	최종소비			
									TFC	산업	수송	건물 <sup>1</sup>
										Industry	Transport	Building <sup>1</sup>
1,000 ton												
1990		1,787	48	145	1,655	270	-	218	1,710	107	12	1,590
1995		3,502	143	37	3,384	364	-	1,032	2,702	485	12	2,206
2000		3,248	427	153	2,849	881	-	263	3,460	1,043	6	2,410
2001		2,599	193	111	2,448	841	134	19	3,119	766	3	2,351
2002		3,057	128	204	2,835	778	125	15	3,385	974	8	2,403
2003		2,853	141	265	2,652	850	66	13	3,128	889	8	2,231
2004		2,641	41	317	2,547	891	67	13	2,893	903	7	1,983
2005		2,623	24	252	2,660	903	68	40	2,914	1,079	1	1,835
2006		2,590	32	262	2,548	905	39	31	2,945	1,130	1	1,815
2007		2,641	27	154	2,730	826	42	58	2,972	1,184	0	1,788
2008		2,510	21	123	2,521	1,047	217	46	2,806	1,229	2	1,574
2009		2,617	10	108	2,622	1,234	152	68	3,109	1,513	1	1,595
2010		2,845	74	113	2,766	1,385	352	69	3,161	1,607	1	1,553
2011		3,115	60	134	3,034	888	488	60	2,952	1,473	1	1,478
2012		2,982	126	115	2,875	1,013	534	93	2,718	1,332	1	1,384
2013		2,599	66	79	2,569	919	88	77	2,773	1,378	2	1,393
2014		2,606	85	230	2,371	926	11	50	2,705	1,432	1	1,272
2015		2,943	65	165	2,944	880	13	176	3,128	1,771	2	1,355
2016		4,559	117	176	4,438	657	18	140	4,401	2,950	3	1,449
2017		4,455	156	192	4,283	849	57	136	4,411	3,026	1	1,384
2018		4,810	315	258	4,429	737	124	80	4,521	3,103	1	1,417
2019		6,026	414	211	5,659	552	105	155	5,480	4,042	1	1,437
2020		6,537	471	261	6,016	381	116	144	5,706	4,272	1	1,432
2021 <sup>p</sup>		6,168	230	216	5,983	584	414	-60	5,895	4,423	2	1,470
2020	9	563	43	267	474	19	6	7	463	367	0	96
	10	486	37	223	493	27	10	9	482	369	0	113
	11	536	37	200	522	31	11	13	453	312	0	141
	12	599	36	261	502	71	10	14	488	318	0	169
2021 <sup>p</sup>	1	588	27	206	617	62	64	11	551	371	0	180
	2	549	23	211	521	59	32	11	486	349	0	137
	3	416	11	161	455	62	6	9	448	315	0	134
	4	466	13	196	419	50	5	6	445	333	0	112
	5	503	8	222	469	40	7	4	483	379	0	103
	6	499	18	190	514	44	14	3	525	408	0	117
	7	579	27	219	523	31	147	-130	521	423	0	98
	8	477	23	217	456	41	11	1	470	386	0	84
	9	417	14	200	421	43	14	0	436	346	0	90
	10	437	26	164	447	40	73	-56	457	337	0	120
	11	546	20	186	504	58	24	9	475	338	0	137
	12	691	22	216	639	54	17	73	597	437	0	159
2022 <sup>p</sup>	1	798	19	297	698	48	33	77	633	451	0	182
	2	659	4	237	715	21	34	67	623	448	0	175
	3	667	-	202	702	21	22	63	649	498	0	151
	4	554	-	232	524	25	13	17	580	466	1	114
	5	521	1	273	479	29	7	13	533	431	0	102
	6	358	0	219	412	37	11	13	455	369	0	86
	7	585	4	290	511	22	23	10	519	430	0	88
	8	479	4	278	488	16	21	27	444	356	0	87
	9	453	4	250	477	16	10	22	449	346	0	102
2021 <sup>p</sup>	1-9	4,495	163	200	4,394	432	300	-86	4,365	3,310	1	1,054
2022 <sup>p</sup>	1-9	5,074	35	250	5,004	234	174	309	4,885	3,796	2	1,087

1. 가정, 상업, 공공부문 합계  
자료: 한국석유공사-PEDSIS

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



## 5.5.2 부탄

## Butane

		공급 Supply					소비 Consumption					
		수입	수출	재고	일차에너지 공급	정제생산	발전 및 열생산 투입	에너지산업자체 소비	최종소비			
		Imports	Exports	Stock	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	산업 Industry	수송 Transport	건물 <sup>1</sup> Building <sup>1</sup>
		1,000 ton										
1990		459	46	58	385	810	-	90	1,112	85	1,022	5
1995		895	105	42	779	1,058	-	6	1,829	339	1,484	6
2000		1,430	261	109	1,137	2,302	-	5	3,432	470	2,920	42
2001		1,460	224	105	1,240	2,659	-	5	3,910	538	3,342	31
2002		1,689	119	208	1,467	2,834	-	3	4,222	577	3,574	71
2003		1,422	106	194	1,330	2,738	-	3	4,347	538	3,733	76
2004		1,396	42	221	1,327	2,775	-	2	4,569	625	3,863	81
2005		1,583	38	180	1,585	2,655	0	3	4,679	560	3,963	156
2006		2,017	34	148	2,015	2,479	0	0	4,926	688	4,105	133
2007		2,342	19	105	2,366	2,390	0	1	5,215	726	4,366	123
2008		2,938	11	99	2,934	2,134	0	5	5,702	1,219	4,379	105
2009		3,106	0	82	3,122	1,942	-	1	5,730	1,140	4,499	91
2010		3,163	0	109	3,136	1,680	-	0	5,356	818	4,467	71
2011		3,252	15	132	3,213	1,306	-	0	5,038	675	4,248	114
2012		3,036	20	119	3,028	1,268	0	1	4,836	592	4,103	141
2013		3,106	3	86	3,136	1,324	1	4	4,984	841	4,010	133
2014		2,874	28	135	2,796	1,614	0	42	4,819	903	3,758	158
2015		2,415	40	147	2,363	1,700	1	9	4,341	472	3,715	154
2016		2,466	38	98	2,470	1,667	1	8	4,343	676	3,549	118
2017		1,666	44	146	1,574	2,153	1	10	3,987	504	3,323	160
2018		1,818	96	153	1,714	2,224	1	8	4,087	852	3,098	137
2019		1,792	63	106	1,777	2,042	1	7	3,961	811	3,051	99
2020		1,860	20	127	1,818	1,756	0	7	3,535	793	2,655	86
2021 <sup>p</sup>		1,887	37	113	1,865	1,641	0	6	3,385	737	2,563	85
2020	9	185	-	127	157	158	0	1	284	62	217	6
	10	223	-	119	231	113	0	1	308	81	222	5
	11	160	-	98	180	110	0	1	310	69	234	7
	12	110	-	127	81	148	0	1	244	37	199	8
2021 <sup>p</sup>	1	93	2	113	105	133	0	0	255	39	206	11
	2	117	8	136	86	135	0	0	241	45	187	9
	3	113	-	110	138	133	0	0	289	74	208	8
	4	173	-	139	144	143	0	1	265	59	199	6
	5	197	4	158	174	162	0	0	310	90	214	6
	6	177	10	106	219	139	0	0	338	87	243	7
	7	185	11	98	182	155	0	0	314	72	235	7
	8	167	2	74	189	142	0	1	303	77	221	5
	9	187	-	78	183	125	0	1	279	62	211	5
	10	231	-	108	201	119	0	1	287	52	230	6
	11	113	1	96	125	130	0	1	262	40	215	7
	12	135	-	113	118	127	0	1	242	40	194	8
2022 <sup>p</sup>	1	172	-	149	136	152	0	0	294	74	211	9
	2	153	4	142	155	122	0	0	288	79	202	7
	3	126	2	127	141	137	0	0	285	82	198	6
	4	139	0	135	131	140	0	1	244	51	188	4
	5	231	1	178	187	151	0	0	318	85	229	4
	6	144	-	143	179	129	0	0	291	84	202	6
	7	195	0	173	165	164	0	0	315	77	232	7
	8	124	-	155	142	170	0	1	297	71	221	5
	9	179	2	156	176	149	0	1	303	76	221	6
2021 <sup>p</sup> 1-9		1,409	37	78	1,421	1,266	0	3	2,594	605	1,924	64
2022 <sup>p</sup> 1-9		1,463	10	156	1,411	1,314	0	3	2,635	678	1,904	53

1. 가정, 상업, 공공부문 합계  
자료: 한국석유공사-PEDSIS

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

## 5.5.3 휘발유

## Gasoline

	공급 Supply					소비 Consumption						
	수입	수출	재고	일차에너지 공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비				
	Imports	Exports	Stock	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	산업 Industry	수송 Transport	건물 <sup>1</sup> Building <sup>1</sup>	
	1,000 kℓ											
1990	-	5	180	-45	3,813	0	1	3,764	83	3,535	146	
1995	-	70	344	-118	9,610	0	1	9,441	225	9,069	147	
2000	118	2,364	589	-2,335	12,136	-	1	9,918	347	9,498	72	
2001	335	2,570	554	-2,201	12,163	0	1	9,969	424	9,455	89	
2002	641	2,468	542	-1,816	12,201	0	1	10,187	492	9,592	103	
2003	328	2,152	528	-1,812	11,349	0	4	9,615	320	9,196	99	
2004	194	2,913	515	-2,706	11,919	0	1	9,245	322	8,837	85	
2005	12	2,308	500	-2,281	11,745	0	1	9,601	332	9,178	91	
2006	-	3,168	512	-3,180	12,817	1	1	9,519	301	9,126	92	
2007	-	2,438	532	-2,458	12,460	0	1	9,936	256	9,608	72	
2008	-	4,914	421	-4,804	14,898	1	1	10,005	248	9,682	76	
2009	-	6,389	509	-6,477	16,950	1	1	10,472	249	10,132	91	
2010	-	6,254	611	-6,356	17,317	1	1	10,958	240	10,623	96	
2011	-	8,509	509	-8,407	19,471	0	1	11,061	247	10,723	90	
2012	13	10,094	811	-10,383	21,700	0	1	11,409	239	11,069	101	
2013	273	10,177	805	-9,898	21,424	0	2	11,671	246	11,314	111	
2014	-	11,658	707	-11,560	23,073	0	1	11,681	232	11,317	131	
2015	61	12,606	812	-12,650	24,961	1	1	12,173	227	11,807	138	
2016	221	12,124	906	-11,997	24,489	0	0	12,548	214	12,225	108	
2017	179	13,071	902	-12,889	25,537	0	0	12,658	239	12,324	95	
2018	28	13,974	1,141	-14,185	26,950	0	0	12,668	221	12,355	93	
2019	21	13,970	975	-13,784	27,072	0	0	13,156	215	12,868	72	
2020	0	11,788	780	-11,593	24,069	0	0	12,872	206	12,621	44	
2021 <sup>P</sup>	48	15,652	853	-15,678	28,416	0	0	13,491	205	13,220	67	
2020	9	-	857	800	-795	1,851	0	0	1,098	20	1,073	4
	10	-	1,026	872	-1,098	2,031	0	0	1,053	18	1,031	4
	11	-	959	773	-860	2,044	0	0	1,211	18	1,189	4
	12	0	1,209	780	-1,216	2,178	0	0	1,042	18	1,021	4
2021 <sup>P</sup>	1	-	965	1,005	-1,190	2,099	0	0	975	12	959	4
	2	-	915	943	-852	1,909	0	0	1,032	13	1,015	4
	3	-	1,258	956	-1,271	2,233	0	0	1,035	17	1,012	5
	4	-	1,288	848	-1,180	2,294	0	0	1,135	16	1,111	8
	5	-	1,389	755	-1,296	2,331	0	0	1,132	20	1,105	6
	6	-	1,118	782	-1,146	2,316	0	0	1,184	19	1,159	6
	7	-	1,427	811	-1,455	2,532	0	0	1,159	17	1,137	6
	8	47	1,269	970	-1,381	2,502	0	0	1,183	16	1,161	6
	9	-	1,432	864	-1,327	2,468	0	0	1,205	22	1,177	6
	10	-	1,457	970	-1,563	2,583	0	0	1,068	21	1,042	5
	11	0	1,496	992	-1,518	2,497	0	0	1,093	17	1,071	5
	12	-	1,637	853	-1,498	2,652	0	0	1,291	15	1,270	5
2022 <sup>P</sup>	1	-	1,363	1,005	-1,502	2,590	0	0	1,172	16	1,152	4
	2	-	1,473	911	-1,379	2,340	0	0	1,004	13	986	4
	3	-	1,483	1,034	-1,607	2,459	0	0	936	17	915	4
	4	-	1,367	1,060	-1,393	2,204	0	0	897	13	879	4
	5	-	1,264	888	-1,092	2,454	0	0	1,418	23	1,391	4
	6	-	1,314	1,043	-1,468	2,423	0	0	976	15	958	4
	7	3	1,498	840	-1,292	2,621	0	0	1,339	13	1,322	5
	8	-	1,315	762	-1,238	2,558	0	0	1,356	16	1,335	5
	9	3	1,229	909	-1,373	2,464	0	0	1,163	17	1,141	4
2021 <sup>P</sup>	1-9	47	11,061	864	-11,098	20,684	0	0	10,040	152	9,836	51
2022 <sup>P</sup>	1-9	7	12,306	909	-12,343	22,112	0	0	10,260	144	10,078	38

1. 가정, 상업, 공공부문 합계

자료: 한국석유공사-PEDSIS

1. Sum of residential, commercial and public sector

Source: Korea National Oil Corporation-PEDSIS

## 5.5.4 항공유

## Air fuel

	공급 Supply						소비 Consumption						
	수입  Imports	수출  Exports	국제항공 병커링  International Aviation Bunkers	재고  Stock	일차에너지 공급  TPES	정제생산  Petroleum Products	발전 및 열생산 투입  Power Generatoin & Others	에너지산업 자체소비  Transformation own use	최종소비				
									TFC	산업	수송	건물 <sup>1</sup>	
										Industry	Transport	Building <sup>1</sup>	
	1,000 kℓ												
1990	1	-	1,606	159	-1,660	2,608	-	0	1,069	-	3	1,067	
1995	18	2,136	2,937	183	-5,058	5,561	-	0	471	1	5	465	
2000	270	5,990	3,160	378	-9,023	9,470	-	1	418	0	10	407	
2001	54	6,280	3,311	506	-9,665	10,374	-	0	663	2	10	651	
2002	442	6,678	3,740	370	-9,840	10,769	-	0	554	2	10	541	
2003	550	4,397	3,931	400	-7,807	8,747	-	0	778	2	11	765	
2004	34	7,235	4,189	533	-11,523	12,185	-	0	756	3	13	739	
2005	0	8,670	4,320	266	-12,722	13,498	-	0	763	2	15	745	
2006	0	9,920	3,535	354	-13,544	15,181	-	0	1,699	2	1,160	537	
2007	0	11,502	4,919	517	-16,584	16,804	-	0	588	0	76	512	
2008	40	12,221	4,488	349	-16,501	17,119	-	-	831	0	353	478	
2009	0	11,100	4,275	317	-15,343	16,322	-	-	973	0	425	548	
2010	1	11,359	4,759	359	-16,159	16,766	-	-	984	0	432	552	
2011	3	12,916	4,800	421	-17,776	18,782	-	-	1,177	0	596	581	
2012	3	14,553	4,803	511	-19,442	20,779	-	-	1,530	0	981	549	
2013	3	14,235	5,071	626	-19,418	20,666	-	-	1,389	1	834	554	
2014	1	14,919	5,083	477	-19,852	21,496	-	0	1,805	0	1,249	557	
2015	1	17,055	5,228	423	-22,228	24,121	-	-	2,076	1	1,490	585	
2016	1	17,707	5,840	736	-23,731	25,555	-	-	2,015	1	1,460	555	
2017	0	19,269	5,979	933	-25,444	27,664	-	-	2,126	0	1,557	568	
2018	0	18,349	6,299	1,062	-24,777	27,186	-	-	2,182	0	1,595	587	
2019	1	18,259	6,419	1,045	-24,661	27,149	-	-	2,086	0	1,563	522	
2020	1	13,076	4,007	790	-16,827	17,899	-	-	1,239	0	713	526	
2021 <sup>p</sup>	1	10,457	3,212	608	-13,486	15,450	-	-	2,356	0	1,856	499	
2020	9	0	1,264	292	803	-1,243	1,237	-	-	81	-	32	49
	10	0	577	348	875	-996	1,066	-	-	101	0	57	44
	11	0	564	358	847	-894	1,024	-	-	99	0	53	46
	12	0	799	372	790	-1,114	1,206	-	-	87	-	41	46
2021 <sup>p</sup>	1	0	542	231	843	-825	1,046	-	-	205	0	153	52
	2	-	491	220	980	-849	965	-	-	165	0	127	38
	3	0	707	267	940	-934	1,103	-	-	213	0	162	51
	4	0	822	269	840	-991	1,148	-	-	179	0	142	36
	5	0	1,090	273	773	-1,296	1,471	-	-	220	0	178	42
	6	0	930	252	797	-1,206	1,381	-	-	217	0	174	42
	7	0	1,183	270	847	-1,502	1,597	-	-	203	0	162	41
	8	0	984	269	950	-1,356	1,482	-	-	161	-	120	41
	9	0	1,061	269	812	-1,191	1,335	-	-	206	0	164	41
	10	0	751	306	926	-1,172	1,344	-	-	220	0	179	41
	11	0	945	284	777	-1,079	1,285	-	-	193	0	149	44
	12	0	951	303	608	-1,085	1,294	-	-	174	0	144	31
2022 <sup>p</sup>	1	0	780	302	549	-1,025	1,290	-	-	248	0	202	46
	2	0	686	264	706	-1,106	1,296	-	-	197	0	142	55
	3	0	1,037	296	571	-1,197	1,362	-	-	206	0	155	51
	4	0	1,060	265	807	-1,560	1,658	-	-	143	0	108	35
	5	0	1,486	330	562	-1,570	1,707	-	-	181	0	132	49
	6	0	1,062	300	626	-1,424	1,581	-	-	221	0	176	44
	7	-	1,309	325	854	-1,862	2,003	-	0	227	-	153	74
	8	0	1,851	348	578	-1,923	1,992	-	-	246	0	208	38
	9	-	1,182	359	664	-1,628	1,727	-	-	198	0	166	32
2021 <sup>p</sup> 1-9	1	7,810	2,319	812	-10,150	11,527	-	-	1,768	0	1,383	384	
2022 <sup>p</sup> 1-9	0	10,450	2,788	664	-13,295	14,617	-	0	1,866	0	1,442	424	

1. 가정, 상업, 공공부문 합계

주: 항공휘발유, 휘발유형항공유, 등유형항공유의 합계

1. Sum of residential, commercial and public sector

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

## 5.5.5 등유

## Kerosene

	공급 Supply					소비 Consumption						
	수입	수출	재고	일차에너지 공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비				
	Imports	Exports	Stock	TPES	Petroleum Products	Power Generatoin & Others	Transformation own use	TFC	산업 Industry	수송 Transport	건물 <sup>1</sup> Building <sup>1</sup>	
	1,000 kL											
1990	2,777	15	991	1,980	2,162	0	9	3,765	751	25	2,990	
1995	3,714	90	1,001	3,570	6,495	0	1	9,940	1,135	36	8,768	
2000	1,092	3,160	1,712	-2,518	13,963	152	25	10,957	1,310	9	9,638	
2001	844	2,863	1,378	-1,686	12,007	80	57	9,825	1,081	16	8,728	
2002	1,100	1,622	782	72	9,972	169	42	9,367	1,157	32	8,178	
2003	1,053	2,090	978	-1,233	10,255	280	49	8,385	1,041	29	7,314	
2004	272	1,223	707	-681	8,034	133	10	6,975	980	17	5,978	
2005	57	708	449	-393	7,197	119	6	5,808	964	13	4,830	
2006	41	757	753	-1,019	6,553	172	4	5,062	880	12	4,170	
2007	82	199	577	58	4,773	129	41	4,229	797	9	3,424	
2008	60	381	383	-127	5,063	105	100	4,441	761	10	3,671	
2009	11	863	367	-836	5,302	126	7	4,149	730	10	3,409	
2010	53	1,027	479	-1,087	6,228	136	4	4,696	867	14	3,815	
2011	66	1,424	391	-1,271	5,694	86	3	4,129	759	15	3,355	
2012	24	1,205	331	-1,121	5,187	77	2	3,587	655	26	2,907	
2013	16	1,063	379	-1,095	4,484	109	2	3,059	575	9	2,474	
2014	21	706	290	-596	3,672	112	16	2,537	303	5	2,229	
2015	2	599	375	-683	4,010	141	3	2,681	222	9	2,449	
2016	3	328	362	-314	4,084	220	2	3,060	237	3	2,820	
2017	6	837	291	-760	4,071	193	3	2,978	198	3	2,776	
2018	0	1,038	369	-1,116	4,265	199	2	2,943	203	5	2,735	
2019	6	663	406	-695	3,416	211	2	2,650	242	7	2,401	
2020	13	1,017	253	-851	7,054	176	1	2,676	359	8	2,309	
2021 <sup>p</sup>	34	1,253	308	-1,273	8,513	167	2	2,615	356	13	2,245	
2020	9	-	21	301	11	459	15	0	125	19	0	105
	10	-	81	294	-74	675	12	0	175	27	1	148
	11	-	111	293	-109	750	15	0	284	39	1	245
	12	-	153	253	-113	883	14	0	478	61	1	415
2021 <sup>p</sup>	1	-	181	351	-279	1,051	10	0	531	69	3	459
	2	10	166	420	-226	876	10	0	351	46	3	302
	3	-	120	366	-65	705	12	0	195	26	2	168
	4	-	94	311	-38	637	13	0	138	17	1	121
	5	-	77	314	-81	606	12	0	90	10	0	79
	6	-	38	306	-29	535	16	0	72	11	1	60
	7	5	63	286	-38	524	16	0	54	9	0	45
	8	-	50	308	-72	611	15	0	86	15	0	70
	9	-	39	290	-21	626	15	0	171	26	0	144
	10	-	69	346	-124	755	15	0	233	35	1	197
	11	-	138	354	-146	673	19	0	226	31	1	195
	12	19	218	308	-153	915	14	0	467	61	1	405
2022 <sup>p</sup>	1	-	185	333	-210	1,001	17	0	520	68	1	451
	2	-	131	309	-99	806	19	0	393	52	1	340
	3	-	51	341	-84	669	16	0	179	24	1	154
	4	-	29	372	-59	569	17	0	78	10	0	68
	5	-	30	315	26	470	15	1	72	11	0	61
	6	-	-	306	9	338	21	0	49	7	0	42
	7	-	4	319	-18	444	19	0	45	8	0	37
	8	-	6	268	45	579	22	0	120	20	0	99
	9	-	47	324	-104	561	21	0	88	11	0	77
2021 <sup>p</sup>	1-9	15	828	290	-850	6,171	119	2	1,688	229	11	1,449
2022 <sup>p</sup>	1-9	-	484	324	-492	5,436	167	1	1,544	211	4	1,328

1. 가정, 상업, 공공부문 합계  
자료: 한국석유공사-PEDSIS

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

## 5.5.6 경유

## Diesel

		공급 Supply					소비 Consumption					
		수입	수출	재고	일차에너지 공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
		Imports	Exports	Stock	TPES	Petroleum Products	Power Generation & Others	Transformation own use	TFC	산업 Industry	수송 Transport	건물 <sup>1</sup> Building <sup>1</sup>
		1,000 kℓ										
1990		2,160	1,662	527	215	15,105	279	50	14,961	3,424	8,305	3,232
1995		5,118	6,748	1,767	-3,190	28,838	969	20	24,710	4,657	13,488	6,565
2000		448	15,370	1,630	-16,323	36,281	64	7	20,090	3,987	14,031	2,072
2001		1,062	14,379	1,416	-14,376	34,808	39	7	20,596	4,001	14,732	1,864
2002		2,055	12,120	1,130	-11,019	32,661	97	6	21,514	3,687	16,080	1,748
2003		1,771	9,669	1,162	-9,220	31,899	305	6	22,455	3,359	17,219	1,877
2004		682	10,817	1,423	-11,694	34,216	30	7	22,533	3,119	17,518	1,897
2005		304	13,655	1,180	-14,227	36,537	20	6	22,224	2,899	17,544	1,781
2006		251	14,550	1,328	-15,491	37,572	32	4	22,310	3,264	17,515	1,530
2007		122	16,371	1,621	-17,541	39,816	28	7	22,639	3,336	17,711	1,592
2008		59	20,817	1,363	-21,411	42,576	31	7	20,874	2,981	16,510	1,383
2009		133	19,948	1,186	-20,401	41,079	22	6	20,493	3,064	16,030	1,400
2010		121	20,789	1,322	-21,586	42,480	38	6	20,744	3,233	16,100	1,412
2011		151	25,307	1,177	-25,673	46,564	95	6	20,642	3,193	16,073	1,376
2012		760	28,055	1,491	-28,194	49,249	179	7	20,973	3,112	16,414	1,447
2013		1,367	26,035	1,517	-25,335	47,575	118	6	22,016	3,275	17,267	1,474
2014		819	27,686	1,380	-27,472	50,089	21	5	22,389	3,014	17,709	1,665
2015		42	27,345	1,761	-28,903	53,159	13	6	24,126	2,793	19,272	2,061
2016		32	27,827	1,369	-28,477	54,054	30	6	25,625	2,695	20,787	2,143
2017		37	28,006	1,504	-29,288	55,194	14	7	25,919	2,552	21,100	2,266
2018		38	30,320	1,773	-31,687	57,354	52	6	25,488	2,405	21,199	1,883
2019		22	31,039	1,665	-32,338	58,433	155	5	26,039	2,514	21,883	1,642
2020		3	31,812	1,194	-32,950	55,940	62	7	24,649	2,620	20,891	1,139
2021 <sup>p</sup>		0	28,756	1,294	-30,869	53,693	98	83	24,776	2,524	21,022	1,231
2020	9	-	2,911	1,667	-2,645	4,576	9	0	2,041	212	1,744	86
	10	-	2,536	1,714	-2,749	4,603	6	0	2,032	243	1,698	91
	11	-	2,573	1,123	-2,128	4,408	13	0	2,405	283	2,021	101
	12	-	2,258	1,194	-2,469	4,547	15	0	2,203	272	1,824	106
2021 <sup>p</sup>	1	-	1,895	1,669	-2,507	4,367	14	1	1,949	201	1,629	119
	2	-	1,970	1,827	-2,260	4,094	10	1	1,933	184	1,642	107
	3	-	2,831	1,499	-2,665	4,385	13	0	1,952	196	1,641	115
	4	-	2,346	1,383	-2,358	4,235	8	1	2,118	176	1,835	108
	5	0	2,616	1,521	-2,895	4,812	9	1	2,119	241	1,774	104
	6	-	2,234	1,479	-2,336	4,309	10	11	2,197	232	1,869	96
	7	-	2,460	1,474	-2,616	4,508	5	16	2,064	204	1,772	88
	8	0	2,191	2,058	-2,955	4,753	3	14	1,952	157	1,709	86
	9	-	2,670	1,758	-2,547	4,402	6	17	2,047	251	1,712	84
	10	-	2,812	1,519	-2,802	4,634	7	1	1,977	268	1,608	100
	11	-	2,389	1,497	-2,567	4,478	8	11	2,031	200	1,734	97
	12	-	2,342	1,294	-2,362	4,716	4	11	2,438	214	2,097	126
2022 <sup>p</sup>	1	-	2,354	1,447	-2,727	4,819	10	10	2,188	254	1,820	114
	2	-	2,439	1,532	-2,708	4,389	14	11	1,795	181	1,510	104
	3	-	2,608	1,924	-3,192	4,849	13	13	1,816	195	1,507	115
	4	-	2,655	1,839	-2,773	4,370	10	15	1,697	158	1,445	94
	5	-	2,857	1,317	-2,524	4,846	12	19	2,342	216	2,019	108
	6	48	2,208	1,924	-2,946	4,663	16	18	1,739	184	1,479	75
	7	-	3,165	1,980	-3,432	5,321	15	17	1,925	132	1,721	72
	8	-	3,252	1,620	-3,103	5,309	9	34	2,328	195	2,045	87
	9	-	2,698	1,814	-3,088	4,841	14	29	1,786	234	1,483	70
2021 <sup>p</sup>	1-9	0	21,214	1,758	-23,139	39,864	78	61	18,330	1,841	15,582	907
2022 <sup>p</sup>	1-9	48	24,236	1,814	-26,493	43,406	112	167	17,616	1,748	15,030	839

1. 가정, 상업, 공공부문 합계  
자료: 한국석유공사-PEDSIS

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

## 5.5.7 중유

## Fuel Oil

		공급 Supply						소비 Consumption					
		수입	수출	국제항공 병커링	재고	일차에너지 공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
		Imports	Exports	International Aviation Bunkers	Stock	TPES	Petroleum Products	Power Generatin & Others	Transformation own use	TFC	산업	수송	건물 <sup>1</sup>
											Industry	Transport	Building <sup>1</sup>
1,000 kℓ													
1990		4,397	1,922	2,580	576	49	16,328	4,445	336	10,922	9,287	240	1,396
1995		3,947	6,397	6,370	1,630	-8,679	33,164	9,247	118	15,104	12,022	1,042	2,040
2000		3,992	11,472	9,251	1,855	-16,922	36,647	6,326	2,518	10,858	9,410	581	867
2001		3,548	10,654	8,851	1,951	-16,053	35,897	6,983	2,541	10,248	8,775	665	808
2002		3,768	5,568	8,560	1,845	-10,254	30,176	6,047	2,486	10,233	8,678	725	829
2003		2,199	7,287	9,238	1,630	-14,111	32,494	5,787	2,377	9,580	7,987	742	851
2004		1,317	7,240	9,621	1,873	-15,787	32,186	5,268	2,364	8,730	7,335	696	699
2005		639	8,914	9,779	1,487	-17,668	33,585	4,595	2,573	8,191	6,822	719	650
2006		1,391	9,263	9,879	1,708	-17,965	33,035	4,677	2,507	7,589	6,222	653	714
2007		940	6,789	9,093	1,498	-14,719	29,425	4,833	2,481	7,064	5,594	628	842
2008		1,143	5,620	8,704	1,517	-13,200	24,159	2,748	2,323	5,962	4,649	674	639
2009		3,157	4,104	7,926	1,449	-8,804	20,071	3,684	2,172	5,254	4,083	671	499
2010		2,779	4,115	8,359	1,596	-9,842	19,951	3,382	1,657	4,862	3,792	613	456
2011		2,447	5,483	8,339	1,788	-11,567	19,829	2,385	1,629	4,105	3,093	615	397
2012		4,316	4,520	8,144	1,686	-8,246	16,292	3,511	1,159	3,058	2,186	570	301
2013		7,040	3,567	7,889	1,677	-4,384	12,992	3,624	1,342	2,119	1,548	301	270
2014		8,268	2,196	7,968	1,798	-2,017	8,868	1,783	1,245	1,835	1,428	216	190
2015		7,430	1,743	8,535	1,881	-2,931	9,403	2,009	1,375	2,038	1,467	342	228
2016		7,508	2,148	9,794	1,677	-4,154	11,567	3,018	1,655	2,014	1,537	289	188
2017		6,374	2,648	9,324	1,849	-5,764	11,139	1,197	1,419	1,758	1,320	236	202
2018		6,823	4,188	8,827	1,894	-6,238	11,235	1,249	835	1,588	1,226	195	167
2019		5,022	2,781	7,201	1,571	-4,637	9,458	659	338	1,336	971	241	124
2020		4,710	2,108	8,828	1,383	-6,039	12,286	491	283	1,086	829	183	74
2021 <sup>p</sup>		5,921	1,404	9,087	1,551	-4,736	12,328	465	134	1,026	727	213	86
2020	9	733	204	684	1,607	-256	851	69	20	74	56	15	3
	10	295	87	668	1,448	-299	897	20	17	81	63	15	4
	11	458	76	768	1,377	-316	1,050	77	14	97	73	16	8
	12	394	112	748	1,383	-473	1,019	87	13	116	88	18	10
2021 <sup>p</sup>	1	527	26	759	1,347	-222	864	83	16	109	81	13	14
	2	367	22	599	1,536	-442	849	41	12	93	66	14	12
	3	412	51	753	1,614	-469	935	22	12	83	62	13	8
	4	659	140	750	1,806	-423	949	20	10	56	40	10	5
	5	441	137	725	1,576	-191	1,035	23	11	80	59	16	5
	6	439	109	651	1,558	-304	1,018	21	11	81	60	15	6
	7	598	45	714	1,720	-323	1,132	63	8	84	60	20	4
	8	499	127	828	1,739	-475	1,131	14	9	79	54	22	3
	9	473	66	748	1,757	-359	1,010	49	9	85	59	20	5
	10	499	318	831	1,563	-456	999	45	10	94	61	27	7
	11	478	118	827	1,540	-444	1,120	41	13	80	57	18	6
	12	529	245	902	1,551	-630	1,286	42	13	103	68	24	11
2022 <sup>p</sup>	1	454	237	907	1,567	-707	1,375	115	11	119	75	30	14
	2	523	164	731	1,763	-568	1,187	44	12	89	62	19	8
	3	242	146	890	1,497	-529	1,201	30	10	103	66	30	7
	4	240	124	778	1,578	-743	1,154	19	10	81	55	21	4
	5	299	42	787	1,578	-529	1,200	16	13	99	66	25	7
	6	475	49	734	1,413	-144	895	7	8	91	59	27	5
	7	154	171	915	1,416	-934	1,405	6	10	65	45	19	1
	8	159	392	853	1,270	-941	1,288	5	9	76	50	23	3
	9	176	161	728	1,400	-843	1,214	6	7	90	61	26	3
2021 <sup>p</sup> 1-9		4,416	723	6,526	1,757	-3,207	8,924	337	98	749	541	144	63
2022 <sup>p</sup> 1-9		2,721	1,486	7,322	1,400	-5,937	10,919	247	89	813	539	220	54

1. 가정, 상업, 공공부문 합계

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

자료: 한국석유공사-PEDSIS

1. Sum of residential, commercial and public sector

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

Source: Korea National Oil Corporation-PEDSIS

## 5.5.8 납사

## Naphtha

		공급 Supply					소비 Consumption					
		수입	수출	재고	일차에너지 공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
		Imports	Exports	Stock	TPES	Petroleum Products	Power Generation & Others	Transformation own use	TFC	산업 Industry	수송 Transport	건물 <sup>1</sup> Building <sup>1</sup>
		1,000 ton										
1990		1,676	362	185	1,325	3,389	-	0	4,685	4,685	-	-
1995		7,815	2,321	579	5,595	8,335	-	0	13,030	13,030	-	-
2000		12,106	5,314	753	6,712	15,454	-	29	22,044	22,042	-	2
2001		13,026	5,573	996	7,210	14,793	-	36	21,926	21,926	-	-
2002		13,263	4,889	829	8,541	14,480	-	87	22,928	22,928	-	-
2003		14,358	3,369	639	11,179	12,674	-	39	23,812	23,812	-	-
2004		14,291	3,390	1,194	10,347	14,348	-	26	24,672	24,672	-	-
2005		13,413	2,806	1,257	10,716	15,027	-	22	25,501	25,501	-	-
2006		13,812	3,045	1,159	10,865	15,485	-	20	26,465	26,465	-	-
2007		15,640	3,201	1,048	12,550	16,278	-	2	28,968	28,968	-	-
2008		16,686	2,493	1,065	14,176	13,527	-	4	27,721	27,721	-	-
2009		19,673	2,890	906	16,941	12,654	-	10	29,602	29,602	-	-
2010		20,517	3,493	961	16,969	14,572	-	0	31,536	31,536	-	-
2011		20,507	3,850	958	16,685	16,242	-	-	32,996	32,996	-	-
2012		22,567	3,621	1,283	18,621	17,101	-	0	35,726	35,726	-	0
2013		22,660	4,303	1,384	18,213	17,420	-	0	35,661	35,661	-	-
2014		22,381	3,847	1,394	18,524	18,119	-	2	36,540	36,540	-	-
2015		21,498	5,204	1,319	16,369	21,568	-	0	37,684	37,684	-	-
2016		21,999	5,414	1,339	16,566	23,239	-	0	39,476	39,476	-	-
2017		21,718	4,808	1,110	17,139	27,104	-	0	41,801	41,801	-	-
2018		23,804	4,739	1,642	18,533	27,058	-	-	40,530	40,530	-	-
2019		24,596	5,155	1,261	19,822	27,671	-	-	39,756	39,756	-	-
2020		23,490	3,990	1,844	18,917	24,469	-	-	36,328	36,328	-	-
2021 <sup>P</sup>		27,561	3,395	1,557	24,447	23,495	-	-	40,525	40,525	-	-
2020	9	1,746	270	1,829	1,529	1,933	-	-	2,962	2,962	-	-
	10	1,090	220	1,484	1,215	1,882	-	-	2,774	2,774	-	-
	11	1,358	295	1,762	785	1,845	-	-	2,264	2,264	-	-
	12	1,827	346	1,844	1,398	2,148	-	-	3,033	3,033	-	-
2021 <sup>P</sup>	1	1,876	239	1,774	1,703	2,081	-	-	3,156	3,156	-	-
	2	2,086	324	1,678	1,859	2,007	-	-	3,216	3,216	-	-
	3	2,188	263	1,649	1,954	2,094	-	-	3,466	3,466	-	-
	4	2,043	203	1,639	1,850	2,009	-	-	3,322	3,322	-	-
	5	2,059	295	1,542	1,861	2,061	-	-	3,136	3,136	-	-
	6	2,353	296	1,542	2,057	1,658	-	-	3,152	3,152	-	-
	7	2,536	362	1,458	2,258	1,766	-	-	3,414	3,414	-	-
	8	2,544	276	1,579	2,148	2,039	-	-	3,581	3,581	-	-
	9	2,630	344	1,562	2,303	1,824	-	-	3,533	3,533	-	-
	10	2,435	288	1,679	2,030	1,959	-	-	3,344	3,344	-	-
	11	2,165	267	1,584	1,992	1,928	-	-	3,343	3,343	-	-
	12	2,646	238	1,557	2,435	2,071	-	-	3,863	3,863	-	-
2022 <sup>P</sup>	1	2,274	158	1,633	2,038	2,135	-	-	3,661	3,661	-	-
	2	2,151	278	1,880	1,627	1,901	-	-	3,078	3,078	-	-
	3	2,206	217	1,955	1,914	2,261	-	-	3,527	3,527	-	-
	4	2,021	166	1,831	1,979	2,064	-	-	3,510	3,510	-	-
	5	1,911	291	1,894	1,557	2,099	-	-	3,150	3,150	-	-
	6	1,871	269	1,901	1,595	2,037	-	-	2,955	2,955	-	-
	7	2,562	416	1,925	2,122	2,088	-	-	3,544	3,544	-	-
	8	2,176	405	1,819	1,930	2,097	-	-	3,356	3,356	-	-
	9	1,941	376	1,636	1,748	2,030	-	-	3,025	3,025	-	-
2021 <sup>P</sup>	1-9	20,315	2,601	1,562	17,991	17,537	-	-	29,975	29,975	-	-
2022 <sup>P</sup>	1-9	19,114	2,575	1,636	16,510	18,712	-	-	29,805	29,805	-	-

1. 가정, 상업, 공공부문 합계  
자료: 한국석유공사-PEDSIS

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





## 6. 전기

### Electricity

#### 6.1 발전 현황

Electricity Overview

#### 6.2 발전 설비 현황

Generating Facilities

#### 6.3 발전 설비별 발전량

Power Generation by Facility Type

#### 6.4 발전연료 소비

Fuel Consumption of Power Generation

#### 6.5 종별 고객호수 및 판매량

Customers and Sales Volume by Type

#### 6.6 부문별 전기 소비

Electricity Consumption by Sector

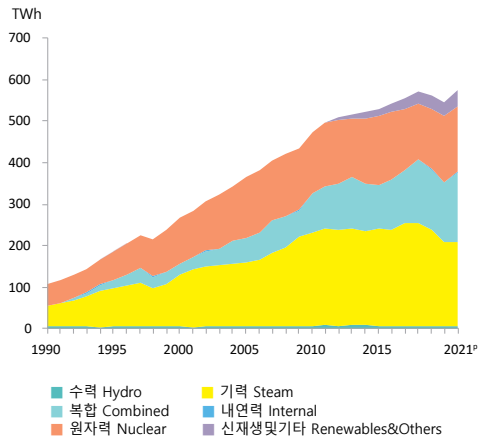
#### 6.7 열에너지(지역난방) 수급

Heat Overview

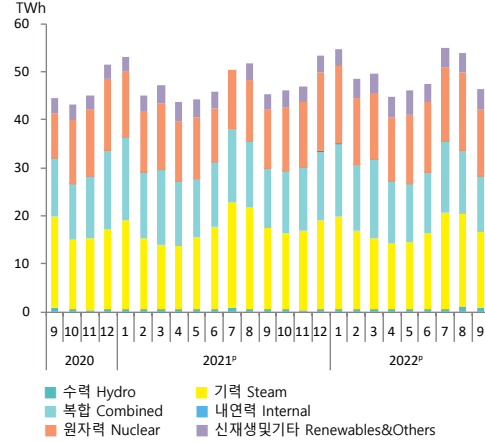


## ● 발전 설비별 발전량 Power Generation Amount by Generating Facility

〈1990~2021<sup>o</sup>〉

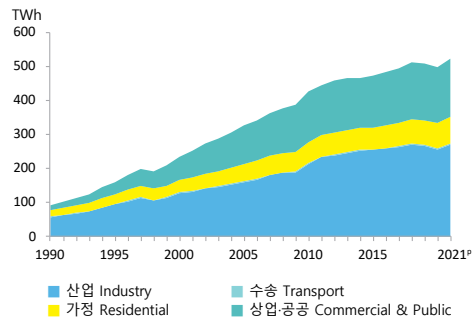


〈월별 Monthly〉

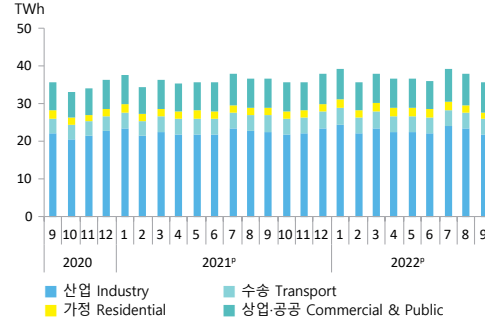


## ● 부문별 전력 소비 Electricity Consumption by Sector

〈1990~2021<sup>o</sup>〉

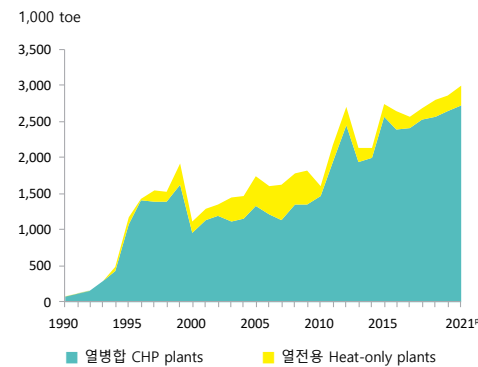


〈월별 Monthly〉

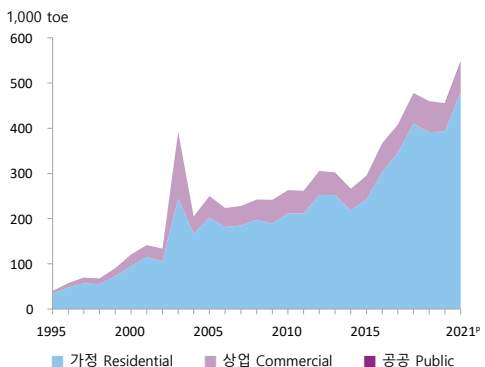


## ● 지역난방 생산, 소비 District Heating Production, Consumption

〈1990~2021<sup>o</sup>〉



〈1990~2021<sup>o</sup>〉



## 6.1 발전 현황

## Electricity Overview

		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
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
2021 <sup>p</sup>		576,809	131,330	100,739	91,141	65,835	10.5	72.2
2020	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	53,156	128,209	99,189	90,564	71,364	9.5	78.8
	2	44,974	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	46,147	131,895	82,449	75,698	62,026	8.9	81.3
	11	46,885	133,564	95,394	80,362	65,119	18.7	81.0
	12	53,374	134,158	103,554	90,708	71,739	14.2	79.0
2022 <sup>p</sup>	1	54,792	134,020	107,631	89,397	73,646	20.4	82.4
	2	48,488	133,069	100,103	87,351	72,154	14.6	82.6
	3	49,659	133,561	89,033	78,233	66,746	13.8	85.3
	4	44,859	133,680	84,457	71,879	62,304	17.5	86.7
	5	46,181	133,917	84,474	73,134	62,071	15.5	84.9
	6	47,587	134,092	94,364	84,739	66,093	11.4	78.0
	7	55,018	134,239	99,716	92,990	73,948	7.2	79.5
	8	53,952	134,417	100,691	89,263	72,516	12.8	81.2
	9	46,308	134,719	91,923	82,122	64,317	11.9	78.3
2021 <sup>p</sup>	1-9	430,403	131,895	90,532	77,820	63,070	16.3	81.0
2022 <sup>p</sup>	1-9	446,844	134,719	91,923	82,122	64,317	11.9	78.3

1. 최대전력 발생시점 기준.

자료: 한국전력공사-전력통계월보

1. Based on peak demand.

Source: 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	-	-
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
2021 <sup>p</sup>		134,020	6,541	40,305	40,217	177	23,250	23,014	515
2020									
	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
	12	134,020	6,541	40,305	40,217	177	23,250	23,014	515
2022 <sup>p</sup>									
	1	133,069	6,540	39,105	40,217	177	23,250	23,265	515
	2	133,561	6,538	39,105	40,217	177	23,250	23,759	515
	3	133,680	6,520	39,105	40,217	177	23,250	23,893	518
	4	133,917	6,520	39,105	40,217	177	23,250	24,130	518
	5	134,060	6,512	38,855	40,217	177	23,250	24,591	458
	6	134,237	6,512	38,855	40,217	177	23,250	24,769	457
	7	134,291	6,512	38,855	40,217	177	23,250	24,823	457
	8	134,695	6,512	38,855	40,217	137	23,250	25,267	457
	9	134,768	6,511	38,855	40,217	137	23,250	25,342	456
2021 <sup>p</sup>	1-9	132,113	6,523	39,765	40,186	176	23,250	21,699	515
2022 <sup>p</sup>	1-9	134,768	6,511	38,855	40,217	137	23,250	25,342	456

1. 기타: 증류탑폐열, 여열회수, 천연가스압단빈, 부생가스 등  
 자료: 한국전력공사-전력통계월보

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

Source: Monthly Report on Major Electric Power Statistics, KEPCO

## 6.3 발전 설비별 발전량

## Power Generation by Facility Type

		합계 Total	수력 Hydro	기력 Steam	복합 Combined	내연력 Internal	원자력 Nuclear	신재생 Renewables	기타¹ Others¹
		GWh							
1990		107,670	6,361	47,419	-	1,048	52,887	-	-
1995		184,661	5,478	90,808	20,521	825	67,029	-	-
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	200,955	145,253	405	160,184	31,190	7,027
2021 <sup>p</sup>		576,809	6,737	202,657	167,024	491	158,015	39,102	2,783
2020	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	53,156	517	18,409	17,152	54	14,042	2,695	286
	2	44,974	478	14,786	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	46,147	507	15,873	12,818	38	13,462	3,249	200
	11	46,885	433	16,516	13,140	34	13,567	2,992	203
	12	53,374	518	18,572	14,284	41	16,532	3,224	203
2022 <sup>p</sup>	1	54,792	520	19,262	15,190	55	16,103	3,470	191
	2	48,488	491	16,498	13,510	58	13,990	3,745	195
	3	49,659	554	14,627	16,489	60	13,867	3,880	183
	4	44,859	473	13,745	12,756	53	13,385	4,268	178
	5	46,181	538	13,931	12,031	40	14,610	4,894	137
	6	47,587	556	15,901	12,402	42	14,726	3,829	131
	7	55,018	686	20,077	14,683	63	15,355	4,011	143
	8	53,952	1,024	19,273	13,179	47	16,309	3,950	170
	9	46,308	803	15,913	11,347	32	14,094	3,972	148
2021 <sup>p</sup>	1-9	430,403	5,279	151,696	126,782	378	114,454	29,636	2,177
2022 <sup>p</sup>	1-9	446,844	5,646	149,228	121,586	450	132,438	36,020	1,477

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

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

## 6.4 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	
		1,000 Ton			1,000 kℓ			1,000 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
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
2021 <sup>P</sup>		67,778	900	66,878	498	291	207	12,462
2020	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	1,313
	2	4,962	62	4,900	27	14	13	1,026
	3	4,577	66	4,511	22	3	19	1,040
	4	4,297	56	4,241	30	12	19	971
	5	4,862	112	4,750	32	16	16	884
	6	5,657	70	5,587	40	17	23	1,003
	7	7,308	121	7,187	79	59	19	1,229
	8	7,168	121	7,047	25	12	13	1,039
	9	5,641	30	5,611	61	47	14	987
	10	5,158	44	5,115	57	38	19	973
	11	5,578	109	5,468	45	23	22	971
	12	6,243	-	6,243	21	6	14	1,025
2022 <sup>P</sup>	1	6,395	-	6,395	94	71	23	931
	2	5,333	-	5,333	31	7	24	840
	3	4,530	0	4,530	30	7	23	989
	4	4,487	122	4,364	25	6	19	757
	5	4,795	83	4,711	22	3	19	795
	6	5,530	79	5,451	26	3	22	869
	7	6,997	136	6,861	23	4	20	1,007
	8	6,629	133	6,496	26	4	23	844
	9	5,427	62	5,365	21	1	20	793
2021 <sup>P</sup>	1-9	50,799	747	50,052	375	224	152	9,492
2022 <sup>P</sup>	1-9	50,123	616	49,507	297	105	192	7,825

주 1. 시운전 연료 사용량 포함.

2. 한전 및 자회사 연료 사용량임.

자료: 한국전력공사-전력통계월보

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

## 6.5 종별 고객호수 및 판매량

## Customers and Sales Volume by Type

		고객호수 Customers			판매량 Sales volume		
		합계 Total	저압 Low	고압 High	합계 Total	저압 Low	고압 High
		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
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
2021 <sup>p</sup>		24,523	23,878	646	533,431	115,457	417,974
2020	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
	12	24,523	23,878	646	47,251	10,095	37,155
2022 <sup>p</sup>	1	24,480	23,830	650	49,802	12,053	37,749
	2	24,492	23,840	653	47,541	12,059	35,483
	3	25,058	24,402	656	45,837	10,093	35,744
	4	24,643	23,985	659	43,758	9,275	34,483
	5	24,591	23,928	663	42,205	7,997	34,208
	6	24,632	23,966	666	43,015	8,406	34,609
	7	24,649	23,979	669	48,533	9,808	38,725
	8	24,677	24,004	673	50,162	11,279	38,883
	9	24,712	24,034	678	45,317	9,949	35,368
2021 <sup>p</sup>	1-9	24,375	23,740	634	401,512	87,868	313,644
2022 <sup>p</sup>	1-9	24,712	24,034	678	416,171	90,918	325,252

자료: 한국전력공사-전력통계속보

Source: Monthly Report on Major Electric Power Statistics, KEPCO

## 6.6 부문별 전기 소비

## Electricity Consumption by Sector

		합계	산업 <sup>1</sup>	화학 및 석유화학	철강	기계류	기타	수송	철도	도로	가정	상업·공공
		Total	Industrial <sup>1</sup>	Chemical and Petrochemical	Iron and Steel	Machinery	Others	Transport	Rail	Road	Residential	Commercial & Public
		GWh										
1990		92,985	57,850	9,511	10,064	12,091	26,184	1,012	1,012	-	17,735	16,388
1995		160,843	94,008	16,463	16,101	15,499	45,944	1,802	1,802	-	28,303	36,729
2000		235,730	128,455	23,054	19,997	23,624	61,779	2,037	2,037	-	37,102	68,137
2001		253,739	131,799	23,795	19,550	24,811	63,642	2,257	2,257	-	39,211	80,472
2002		274,234	140,236	24,995	20,461	27,082	67,699	2,271	2,271	-	42,278	89,448
2003		288,327	145,115	25,870	20,902	29,539	68,804	2,331	2,331	-	44,572	96,309
2004		306,429	152,671	27,181	21,384	33,474	70,632	2,475	2,475	-	48,615	102,668
2005		326,419	160,819	27,954	23,013	38,019	71,832	2,601	2,601	-	50,873	112,126
2006		342,173	168,115	28,324	24,380	41,922	73,489	2,534	2,534	-	52,522	119,002
2007		361,726	179,372	29,624	27,241	45,870	76,638	2,433	2,433	-	54,174	125,747
2008		377,519	187,079	31,389	31,733	49,594	74,363	2,277	2,277	-	56,228	131,935
2009		386,450	189,719	31,978	28,329	50,753	78,660	2,174	2,174	-	57,595	136,961
2010		425,518	214,529	34,496	34,494	59,283	86,256	2,191	2,191	-	61,194	147,604
2011		445,637	232,772	38,630	38,392	64,644	91,106	2,246	2,246	-	61,564	149,055
2012		456,554	239,097	40,383	37,571	68,830	92,313	2,250	2,250	-	63,536	151,671
2013		464,451	246,444	41,612	38,033	72,345	94,454	2,168	2,168	-	63,970	151,869
2014		466,317	253,343	43,615	40,367	73,248	96,113	1,999	1,999	-	62,675	148,299
2015		472,446	254,424	44,326	36,998	74,325	98,775	2,217	2,217	-	63,794	152,011
2016		484,795	257,732	46,099	35,159	75,601	100,872	2,689	2,689	-	66,173	158,202
2017		495,340	264,221	47,710	35,524	79,986	101,001	2,864	2,820	45	66,517	161,737
2018		513,354	270,798	49,256	34,852	84,862	101,829	3,080	2,968	112	70,687	168,789
2019		507,549	266,573	49,012	32,617	84,842	100,102	3,156	2,909	248	70,455	167,365
2020		497,306	254,749	49,520	26,452	82,634	96,143	3,184	2,768	416	74,074	165,299
2021 <sup>p</sup>		521,024	269,553	53,405	25,906	89,539	100,703	3,380	2,675	705	77,558	170,532
2020	9	44,122	21,959	4,218	2,319	7,101	8,322	277	241	37	7,643	14,242
	10	38,064	20,302	4,060	1,964	6,713	7,565	249	212	37	5,599	11,915
	11	40,166	21,404	4,028	1,963	6,972	8,440	256	215	41	5,822	12,684
	12	44,016	22,685	4,373	2,071	7,458	8,784	310	264	46	6,194	14,827
2021 <sup>p</sup>	1	47,752	23,502	4,495	2,194	7,653	9,161	263	214	49	6,940	17,047
	2	44,269	21,456	4,130	1,912	6,962	8,452	270	222	48	6,686	15,857
	3	42,069	22,396	4,432	2,167	7,349	8,447	255	209	45	5,753	13,665
	4	40,916	21,931	4,366	2,147	7,173	8,245	256	208	48	5,910	12,820
	5	39,801	21,888	4,409	2,408	7,269	7,803	243	195	48	5,595	12,074
	6	41,014	21,928	4,387	2,052	7,458	8,031	286	233	53	5,839	12,960
	7	44,869	23,278	4,727	2,159	7,990	8,402	297	239	59	6,764	14,530
	8	47,848	22,739	4,637	2,124	7,485	8,494	331	267	64	9,022	15,755
	9	43,778	22,604	4,530	2,043	7,739	8,292	294	231	63	6,933	13,947
	10	40,839	21,939	4,373	2,200	7,447	7,919	279	214	65	5,908	12,713
	11	41,787	22,299	4,300	2,186	7,285	8,528	290	215	76	5,989	13,208
	12	46,082	23,592	4,619	2,314	7,728	8,931	315	228	87	6,218	15,957
2022 <sup>p</sup>	1	48,716	24,501	4,741	2,363	7,972	9,426	343	257	87	6,860	17,012
	2	46,505	22,323	4,279	1,980	7,306	8,759	318	228	90	6,833	17,031
	3	44,697	23,586	4,623	2,371	7,735	8,857	302	212	90	6,027	14,783
	4	42,717	22,637	4,449	2,266	7,505	8,416	297	203	95	6,097	13,686
	5	41,209	22,512	4,462	2,477	7,552	8,021	309	209	99	5,607	12,782
	6	42,069	22,238	4,486	2,147	7,438	8,167	322	219	104	5,810	13,698
	7	47,436	24,003	4,768	2,250	8,377	8,608	361	252	109	7,335	15,737
	8	49,087	23,332	4,650	2,095	8,043	8,543	381	267	114	8,721	16,654
	9	44,336	21,982	4,311	1,880	7,612	8,179	347	233	114	7,184	14,822
2021 <sup>p</sup>	1-9	392,316	201,722	40,113	19,205	67,078	75,326	2,496	2,018	478	59,443	128,654
2022 <sup>p</sup>	1-9	406,773	207,113	40,769	19,830	69,539	76,975	2,981	2,080	901	60,474	136,205

주 1. 농림어업, 광·제조업, 건설업 포함.



## 6.7 열에너지(지역난방) 수급

## Heat Overview

		전환공정 <sup>1</sup>			최종소비		
		Transformation processes	열병합 CHP plants	열전용 Heat-only plants	TFC	가정 Residential	상업·공공 Commercial & Public
		1,000 toe					
1990		76	79	-	-	-	-
1995		1,172	1,073	102	637	603	34
2000		1,267	1,118	158	1,208	1,113	95
2001		1,277	1,131	159	1,217	1,102	115
2002		1,340	1,186	167	1,224	1,118	106
2003		1,419	1,110	330	1,395	1,151	244
2004		1,447	1,163	304	1,449	1,283	166
2005		1,729	1,325	415	1,652	1,449	202
2006		1,588	1,208	397	1,549	1,367	182
2007		1,610	1,143	481	1,576	1,391	185
2008		1,738	1,347	429	1,669	1,472	198
2009		1,765	1,349	465	1,715	1,525	189
2010		1,593	1,475	134	1,953	1,742	211
2011		2,029	1,946	218	1,954	1,743	211
2012		2,576	2,447	253	2,085	1,832	252
2013		2,028	1,942	200	2,049	1,797	252
2014		2,065	1,992	141	1,938	1,720	218
2015		2,625	2,570	180	1,905	1,663	242
2016		2,526	2,394	249	2,075	1,771	304
2017		2,436	2,401	163	2,300	1,955	345
2018		2,620	2,518	170	2,535	2,125	410
2019		2,740	2,567	239	2,471	2,080	391
2020		2,777	2,633	217	2,592	2,200	393
2021 <sup>p</sup>		2,916	2,721	272	2,714	2,235	480
2020	9	68	64	11	72	53	20
	10	151	143	13	141	122	19
	11	289	274	20	262	230	32
	12	488	459	37	472	410	62
2021 <sup>p</sup>	1	575	504	79	550	472	78
	2	414	380	39	389	338	51
	3	312	295	23	278	244	33
	4	191	178	19	162	144	18
	5	139	136	9	119	102	18
	6	81	80	8	93	59	34
	7	93	93	7	93	45	48
	8	81	72	15	81	38	44
	9	69	66	9	78	49	29
	10	155	150	10	140	114	27
	11	315	301	19	267	232	35
	12	491	465	34	464	398	65
2022 <sup>p</sup>	1	544	516	36	516	452	65
	2	484	445	44	446	391	56
	3	372	353	26	311	276	35
	4	167	156	18	160	142	17
	5	100	95	11	104	85	19
	6	83	74	15	86	56	30
	7	100	92	15	91	45	46
	8	91	87	11	89	44	45
	9	89	73	22	81	53	28
2021 <sup>p</sup>	1-9	1,955	1,805	209	1,843	1,491	352
2022 <sup>p</sup>	1-9	2,030	1,890	198	1,884	1,544	340

주 1. 전환공정 내 열생산량에서 발전용 열투입량 차감

Subtracting the heat input for power generation from heat production in the Transformation processes



## 7. 에너지 가격

### Energy Prices

#### 7.1 원유 및 석유제품 가격 Oil 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

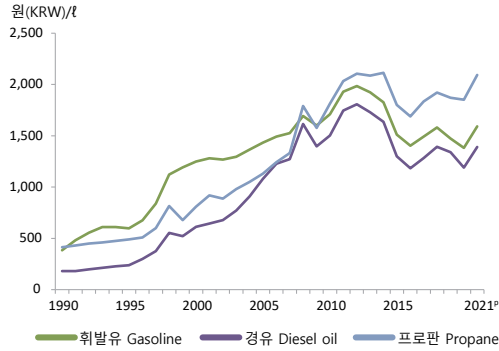
#### 7.2 석탄 및 전력 가격 Coal and Electricity Prices

#### 7.3 액화천연가스 수입가격 및 도시가스 가격 LNG Import Prices and City Gas Prices

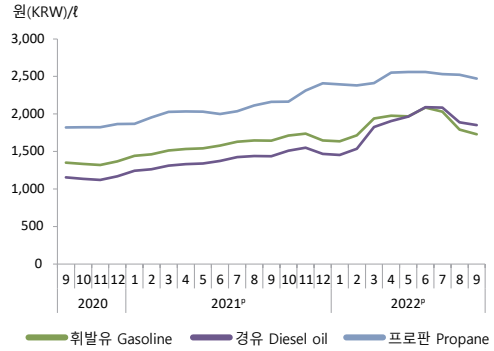


## ● 석유 소비자 가격 Consumer Prices by Petroleum Product

〈1990~2021\*〉

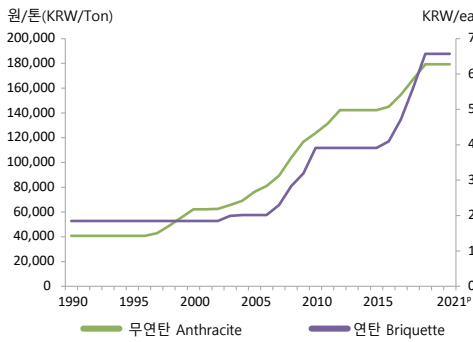


〈월별 Monthly〉



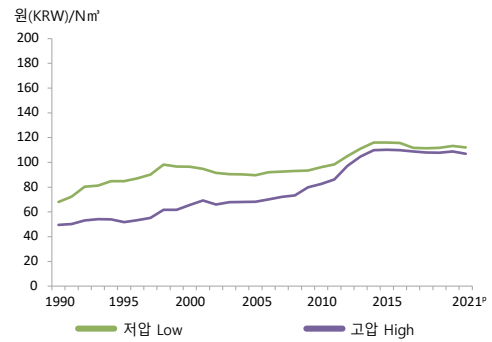
## ● 석탄 가격 Coal Prices

〈1990~2021\*〉



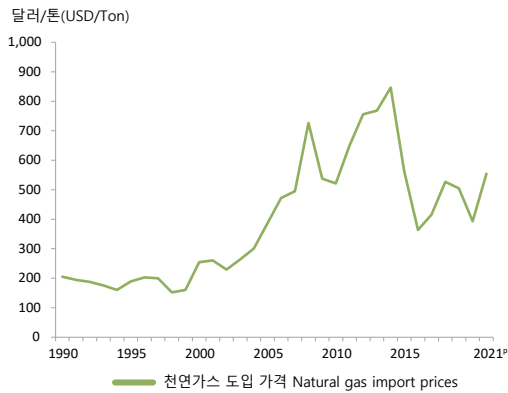
## ● 전력 가격 Electricity Prices

〈1990~2021\*〉

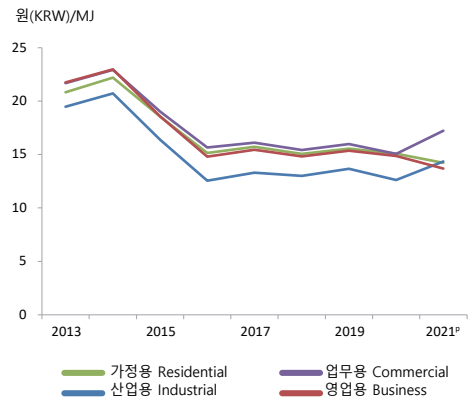


## ● 천연가스 도입 단가 Natural Gas Import Prices ● 도시가스 가격 City Gas Prices

〈1990~2021\*〉



〈2013~2021\*〉



## 7.1.1 원유 수입 가격

## Crude Oil Import Prices

		평균 Average	중동 Middle East	아시아 Asia	아프리카 Africa	아메리카 America	유럽 Europe
		USD/bbl					
1990		21.0	20.8	18.3	18.3	17.7	-
1995		17.3	17.2	18.0	18.0	16.6	-
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
2021 <sup>p</sup>		70.5	70.6	71.3	73.1	69.8	68.4
2020	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	53.7	53.9	54.1	54.0	53.5	52.5
	2	59.2	59.8	59.6	59.2	57.7	56.3
	3	64.1	64.3	65.6	66.5	62.4	68.3
	4	65.1	64.8	65.6	67.9	65.1	66.5
	5	67.5	67.6	68.0	68.7	66.9	66.4
	6	70.6	71.3	69.6	71.8	69.2	71.2
	7	73.9	73.8	75.7	75.1	73.3	74.9
	8	73.6	72.9	74.6	77.4	74.1	76.1
	9	73.9	74.0	74.1	75.0	73.4	73.1
	10	79.0	79.8	79.5	77.0	77.6	76.8
	11	82.7	82.4	84.5	83.6	82.3	85.3
	12	79.5	78.8	82.1	84.0	79.4	80.3
2022 <sup>p</sup>	1	81.7	82.6	83.1	79.1	78.9	79.0
	2	90.1	91.0	92.0	91.8	85.4	100.9
	3	100.9	102.7	99.8	102.3	95.8	-
	4	110.2	110.6	113.5	120.3	103.2	123.3
	5	109.9	110.0	110.1	112.8	108.6	109.8
	6	116.5	117.7	114.9	116.6	113.8	114.3
	7	115.9	115.3	115.0	126.4	117.2	116.1
	8	108.2	106.5	107.9	113.4	115.5	-
	9	105.2	104.8	97.6	109.8	107.4	106.4
2021 <sup>p</sup>	1-9	67.0	66.9	67.6	70.2	66.8	64.9
2022 <sup>p</sup>	1-9	104.2	104.7	103.9	107.7	101.5	110.0

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 Gasoline	경유 Diesel oil	등유 Kerosene	중질중유 Bunker-C	액화석유가스 LPG	납사 Naphtha
		USD/bbl					
1990		-	-	-	-	-	-
1995		-	23.2	25.0	16.6	16.9	18.9
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
2021 <sup>P</sup>		84.0	103.5	78.5	69.6	54.1	71.1
2020	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	72.3
	8	83.8	78.1	-	70.1	55.9	76.4
	9	-	-	-	77.5	58.3	74.6
	10	-	-	-	83.2	63.6	77.7
	11	515.5	-	-	78.6	68.2	86.7
	12	-	-	84.2	74.6	63.0	86.0
2022 <sup>P</sup>	1	-	-	90.8	79.0	58.7	81.4
	2	-	-	-	85.2	64.0	88.0
	3	-	-	-	106.2	69.0	98.6
	4	-	-	-	111.3	80.3	111.3
	5	-	-	-	112.2	76.6	101.6
	6	-	113.5	-	105.0	74.6	100.0
	7	169.6	-	-	99.8	67.8	91.6
	8	-	-	-	86.7	62.9	87.7
	9	142.7	-	-	72.5	58.1	79.7
2021 <sup>P</sup>	1-9	83.8	103.5	71.1	66.5	50.2	66.7
2022 <sup>P</sup>	1-9	156.1	113.5	90.8	94.9	67.6	93.0

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	납사 Naphtha
		USD/bbl					
1990		-	-	-	-	-	-
1995		27.7	21.8	23.7	14.5	18.4	18.4
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
2021 <sup>p</sup>		81.2	77.8	76.6	76.9	54.9	71.4
2020	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	60.4	62.1	62.4	61.2	40.2	50.8
	2	67.5	69.8	68.8	72.1	42.6	59.8
	3	72.4	71.4	69.4	75.4	50.6	62.6
	4	73.6	70.8	68.6	69.7	45.0	63.7
	5	75.8	73.5	73.5	74.6	48.1	66.9
	6	80.5	77.9	77.5	78.7	51.3	70.2
	7	84.3	78.5	78.9	77.0	57.3	74.2
	8	81.1	75.7	76.2	72.1	58.4	75.1
	9	83.8	80.2	80.8	78.9	60.5	76.4
	10	96.7	92.1	90.4	85.2	67.6	81.4
	11	94.0	90.4	92.4	72.6	73.5	86.7
	12	88.6	85.6	87.2	76.6	63.4	87.2
2022 <sup>p</sup>	1	97.6	96.7	98.2	87.9	62.4	85.9
	2	108.6	108.3	107.9	103.0	65.3	99.0
	3	127.3	134.9	126.8	130.6	92.3	111.1
	4	125.5	147.9	133.4	116.3	92.3	100.3
	5	139.5	152.1	140.1	141.1	83.1	100.5
	6	148.8	170.4	-	154.4	72.7	89.4
	7	121.7	146.4	135.4	129.6	63.8	86.3
	8	109.3	135.8	119.8	103.2	58.2	73.9
	9	96.2	125.9	123.7	90.2	58.9	72.0
2021 <sup>p</sup>	1-9	76.3	73.7	70.1	73.9	50.4	67.3
2022 <sup>p</sup>	1-9	119.4	135.8	111.7	108.7	64.5	88.5

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 prices.

Source: Korea National Oil Corporation-PEDSIS

## 7.1.4 정유사 판매 가격

## Refiner Prices

		휘발유	경유		등유 <sup>1</sup>	중질중유	액화석유가스	
			Gas/Diesel oil				LPG	
			선박용	자동차용			부탄	프로판
		Gasoline	MGO	Automobile	Kerosene <sup>1</sup>	Bunker-C	Butane	Propane
		KRW/ℓ				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
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
2021 <sup>P</sup>		1,500.1	1,205.5	1,286.2	739.4	688.7	1,331.2	903.7
2020	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
	12	1,462.6	1,274.2	1,286.8	848.5	809.7	1,609.3	1,237.9
2022 <sup>P</sup>	1	1,527.8	1,209.8	1,369.8	937.5	804.7	1,575.9	1,212.2
	2	1,616.6	1,345.1	1,478.0	1,034.8	904.5	1,534.9	1,172.6
	3	1,820.3	1,445.8	1,742.0	1,219.5	985.1	1,607.7	1,230.3
	4	1,803.7	1,717.1	1,807.5	1,294.9	1,095.6	1,735.0	1,358.9
	5	1,875.6	1,715.7	1,875.3	1,386.6	1,168.5	1,678.3	1,341.0
	6	1,984.3	1,811.5	2,029.1	1,569.6	1,254.1	1,674.1	1,340.0
	7	1,745.6	1,958.9	1,839.7	1,375.8	1,233.6	1,610.9	1,311.7
	8	1,614.0	1,786.0	1,727.3	1,340.7	872.5	1,588.7	1,307.6
	9	1,530.6	1,684.5	1,709.7	1,304.3	1,068.3	1,519.9	1,248.5
2021 <sup>P</sup>	1-9	1,470.8	1,178.8	1,253.2	692.3	651.1	1,273.5	835.3
2022 <sup>P</sup>	1-9	1,724.3	1,630.5	1,730.9	1,273.7	1,043.0	1,614.0	1,280.3

1. 실내등유 기준

주: 세후 가격

자료: 한국석유공사-PETRONET

1. Only considers kerosene prices.

Note: All 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		중질중유 <sup>2</sup>	프로판 <sup>3</sup>	부탄	
				Kerosene				Butane	
				실내등유 <sup>1</sup>	보일러등유 <sup>1</sup>			일반용 <sup>3</sup>	수송용 <sup>1</sup>
				Gasoline <sup>1</sup>	Diesel oil <sup>1</sup>	Kerosene <sup>1</sup>	Heating oil <sup>1</sup>	Bunker-C <sup>2</sup>	Propane <sup>3</sup>
		KRW/ℓ				KRW/kg		KRW/ℓ	
1990		383.5	182.0	191.3	-	95.3	415.0	-	-
1995		598.0	239.4	261.6	-	129.5	489.7	-	-
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
2021 <sup>p</sup>		1,590.6	1,391.4	946.8	-	731.6	2,092.3	2,415.1	932.2
2020	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
	12	1,646.4	1,468.9	1,094.8	-	859.0	2,410.1	2,802.1	1,087.5
2022 <sup>p</sup>	1	1,635.2	1,453.5	1,098.1	-	840.4	2,395.0	2,788.6	1,071.8
	2	1,714.6	1,536.6	1,171.4	-	937.4	2,379.0	2,775.2	1,050.7
	3	1,938.5	1,826.9	1,347.8	-	974.0	2,412.1	2,811.9	1,083.0
	4	1,976.5	1,906.4	1,427.8	-	1,191.7	2,552.2	2,940.6	1,163.2
	5	1,967.1	1,964.3	1,480.1	-	1,190.4	2,558.2	2,945.9	1,134.6
	6	2,084.0	2,089.0	1,601.8	-	1,229.3	2,558.8	2,943.3	1,133.7
	7	2,030.0	2,084.9	1,686.6	-	1,405.7	2,531.2	2,898.3	1,100.2
	8	1,792.2	1,889.3	1,639.5	-	1,305.3	2,522.4	2,886.3	1,088.8
	9	1,730.0	1,850.2	1,620.2	-	1,128.6	2,471.2	2,830.6	1,051.4
2021 <sup>p</sup>	1-9	1,554.4	1,351.9	909.0	-	693.4	2,025.0	2,334.6	895.5
2022 <sup>p</sup>	1-9	1,874.2	1,844.6	1,452.6	-	1,133.7	2,486.7	2,869.0	1,097.5

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 Low	고압 High	평균 Average
		KRW/Ton	KRW/each	KRW/kWh		
1990		40,740	185	68.1	49.5	52.9
1995		40,740	185	84.8	51.7	61.3
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
2021 <sup>P</sup>		179,380	657	112.2	107.0	108.1
2020	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
	12	179,380	657	116.7	115.5	115.8
2022 <sup>P</sup>	1	179,380	657	115.0	114.7	114.8
	2	179,380	657	115.1	115.3	115.2
	3	179,380	657	110.2	98.0	100.7
	4	179,380	657	108.0	102.6	103.7
	5	179,380	657	116.4	103.0	105.5
	6	179,380	657	123.4	121.7	122.0
	7	179,380	657	139.9	130.8	132.6
	8	179,380	657	137.7	131.4	132.9
	9	179,380	657	129.9	112.8	116.5

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 액화천연가스 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>
		Mil USD	USD/Ton	KRW/Nm <sup>3</sup> , 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
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		20,566.6	504.7	15.5	16.0	13.7	15.4
2020		15,716.3	393.1	15.1	15.1	12.6	14.9
2021 <sup>P</sup>		25,452.8	554.1	14.2	17.2	14.3	13.7
2020	9	772.8	263.4	14.2	13.7	10.8	13.8
	10	1,061.4	275.8	14.2	12.7	9.9	13.8
	11	1,117.9	312.1	14.2	12.7	9.9	13.8
	12	1,525.9	358.5	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	2,741.8	531.5	14.2	14.8	12.8	14.0
	3	1,838.7	438.4	14.2	15.9	13.8	14.0
	4	1,093.4	385.5	14.2	16.1	12.4	11.3
	5	1,383.9	408.1	14.2	15.0	11.8	13.8
	6	1,443.0	460.9	14.2	15.6	12.3	13.8
	7	2,002.0	498.1	14.2	16.2	12.9	13.8
	8	1,860.1	535.0	14.2	17.2	14.0	13.8
	9	2,114.3	571.1	14.2	18.1	14.8	13.8
	10	2,606.3	668.8	14.2	18.8	15.6	13.8
	11	3,097.6	805.4	14.2	21.4	18.2	13.8
	12	3,441.3	892.6	14.2	23.6	21.3	14.1
2022 <sup>P</sup>	1	5,689.5	1,138.1	14.2	25.4	23.1	14.1
	2	2,932.1	843.9	14.2	24.9	22.6	14.1
	3	5,034.5	1,016.6	14.2	24.9	22.6	14.1
	4	2,392.3	695.0	14.7	26.5	23.3	14.3
	5	2,447.9	723.3	15.9	22.7	19.7	15.5
	6	1,916.9	762.1	15.9	22.7	19.7	15.5
	7	3,357.3	1,032.5	17.0	24.9	21.8	16.6
	8	4,541.2	1,198.8	17.0	30.9	27.9	16.6
	9	6,200.5	1,470.4	17.0	34.0	30.9	16.6

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

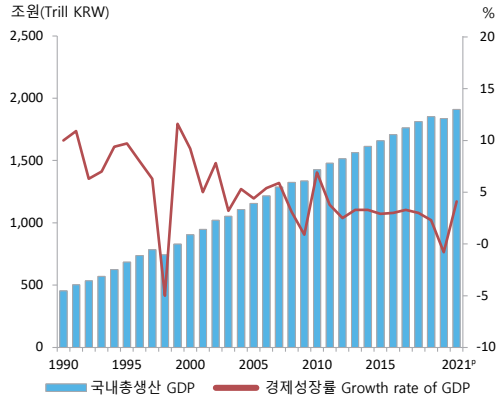
#### 8.8 가구당 소득 및 소비지출

Average Income and Expenditure per Household

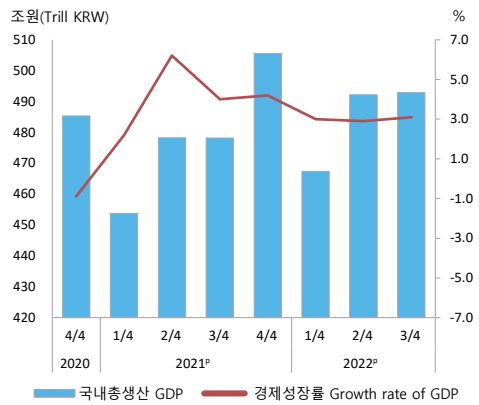


## ● 국내총생산, 경제성장률 GDP and Growth Rate of GDP

〈1990~2021〉

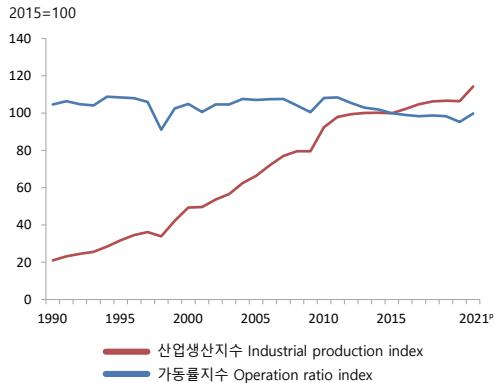


〈분기 Quarterly〉

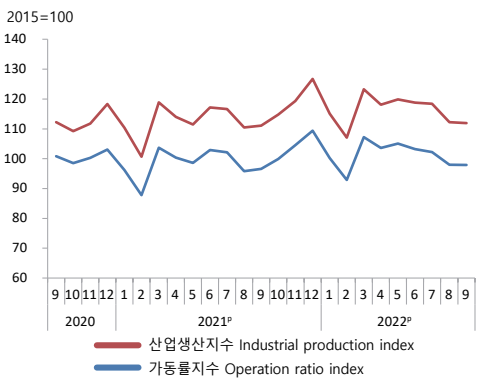


## ● 산업생산지수, 가동률지수 Industrial Production Index

〈1990~2021〉

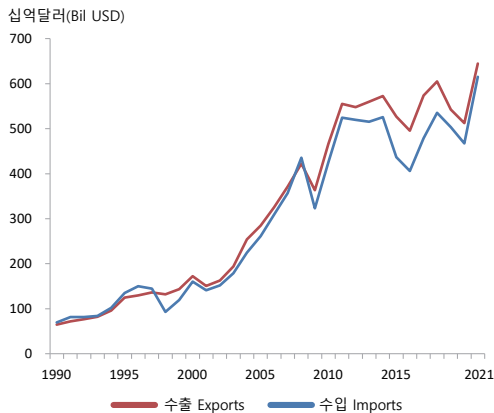


〈월별 Monthly〉

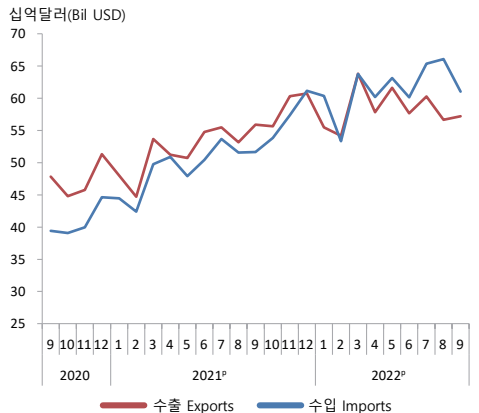


## ● 수출입 Imports and Exports

〈1990~2021〉



〈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
		Bil KRW	%	Bil KRW			2015=100	2020=100
1990		454,146	9.9	279,924	42,313	130,673	55.8	38.5
1995		683,940	9.6	422,297	76,132	193,490	65.2	52.0
2000		903,551	9.1	511,607	86,585	178,617	78.4	63.2
2001		947,395	4.9	541,244	80,623	190,194	78.0	65.7
2002		1,020,582	7.7	589,833	87,293	202,418	77.8	67.5
2003		1,052,703	3.1	587,600	87,656	220,225	79.5	69.9
2004		1,107,416	5.2	589,947	89,928	223,708	84.3	72.4
2005		1,155,130	4.3	617,417	93,062	223,611	86.1	74.4
2006		1,215,940	5.3	647,804	101,442	225,219	86.9	76.1
2007		1,286,459	5.8	682,032	111,522	228,604	88.1	78.0
2008		1,325,219	3.0	693,103	111,276	222,419	95.6	81.7
2009		1,335,724	0.8	694,615	102,216	230,329	95.4	83.9
2010		1,426,618	6.8	725,119	125,912	221,918	99.1	86.4
2011		1,479,198	3.7	746,491	132,898	215,682	105.7	89.9
2012		1,514,737	2.4	758,839	134,263	208,120	106.4	91.8
2013		1,562,674	3.2	772,014	128,966	221,202	104.7	93.0
2014		1,612,718	3.2	787,410	135,481	224,276	104.2	94.2
2015		1,658,020	2.8	804,812	142,434	239,801	100.0	94.9
2016		1,706,880	2.9	825,676	146,179	263,725	98.2	95.8
2017		1,760,812	3.2	848,589	170,276	282,925	101.6	97.6
2018		1,812,005	2.9	875,578	166,289	269,787	103.5	99.1
2019		1,852,666	2.2	894,075	155,328	265,228	103.5	99.5
2020		1,839,523	-0.9	849,072	166,302	264,056	103.0	100.0
2021 <sup>P</sup>		1,915,778	4.0	879,770	180,076	260,147	109.6	102.5
2020	9	459,981	-0.9	214,054	40,667	66,785	103.4	106.2
	10	-	-	-	-	-	103.0	105.6
	11	-	-	-	-	-	103.1	105.5
	12	485,292	-0.9	215,129	44,109	72,909	103.9	105.7
2021 <sup>P</sup>	1	-	-	-	-	-	105.1	101.0
	2	-	-	-	-	-	105.9	101.6
	3	453,752	2.2	215,672	45,015	54,460	107.0	101.8
	4	-	-	-	-	-	108.1	102.0
	5	-	-	-	-	-	108.7	102.1
	6	478,265	6.2	217,047	48,281	72,960	109.2	102.1
	7	-	-	-	-	-	110.3	102.3
	8	-	-	-	-	-	110.9	102.8
	9	478,190	4.0	221,343	42,392	65,773	111.3	103.2
	10	-	-	-	-	-	112.4	103.4
	11	-	-	-	-	-	113.2	103.9
	12	505,572	4.2	228,398	45,949	71,770	113.2	104.0
2022 <sup>P</sup>	1	-	-	-	-	-	114.4	104.7
	2	-	-	-	-	-	115.0	105.3
	3	467,351	3.0	224,996	42,229	51,442	116.7	106.1
	4	-	-	-	-	-	118.6	106.9
	5	-	-	-	-	-	119.4	107.6
	6	492,186	2.9	225,613	45,114	70,252	120.1	108.2
	7	-	-	-	-	-	120.4	108.7
	8	-	-	-	-	-	120.0	108.6
	9	493,062	3.1	234,474	42,949	64,757	120.1	108.9

1. 2015년 연쇄가격, 원계열  
자료: 한국은행

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

## 8.2. 산업생산지수

## 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
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	101.4	107.9	104.6	97.6	103.5	102.6
2017		104.8	104.6	103.3	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	93.3	109.6	108.4
2020		106.4	106.3	92.1	87.2	101.1	84.4	108.5	106.2
2021 <sup>P</sup>		114.3	114.4	97.4	91.6	107.9	88.2	115.2	110.9
2020	9	112.2	113.0	93.0	89.8	102.9	98.1	119.5	107.0
	10	109.2	109.7	94.9	95.2	100.9	96.7	112.6	106.4
	11	111.8	111.9	95.8	98.7	87.6	97.0	118.7	108.8
	12	118.3	117.5	98.6	93.9	103.9	90.6	126.4	116.4
2021 <sup>P</sup>	1	110.4	108.8	96.2	68.0	106.9	92.2	108.0	104.7
	2	100.7	99.8	89.0	71.6	102.4	79.3	97.6	101.6
	3	118.9	119.0	98.7	101.7	111.5	100.9	119.6	111.6
	4	114.0	114.6	98.8	105.1	106.3	96.9	114.7	109.5
	5	111.5	112.0	98.0	96.7	106.6	82.5	110.0	109.5
	6	117.2	118.0	98.2	98.6	103.5	95.9	120.7	113.5
	7	116.6	116.6	102.3	94.2	113.0	90.1	118.8	111.0
	8	110.5	110.5	98.7	84.5	115.9	73.4	110.1	108.6
	9	111.1	111.6	95.3	82.9	110.6	73.9	109.2	110.5
	10	114.8	115.4	97.1	96.0	105.1	83.0	116.0	111.8
	11	119.3	119.6	98.7	100.2	100.3	92.1	124.1	114.7
	12	126.7	126.3	98.0	99.5	112.9	97.6	133.0	123.2
2022 <sup>P</sup>	1	115.1	113.7	100.4	75.7	112.8	83.7	111.5	109.6
	2	107.1	106.0	89.0	71.1	100.8	82.1	106.0	105.4
	3	123.3	123.3	100.5	92.5	111.6	94.5	118.6	115.8
	4	118.1	118.6	95.0	97.6	104.0	94.5	114.2	115.0
	5	119.9	120.7	98.3	99.5	104.0	95.5	115.3	117.6
	6	118.8	119.5	96.5	88.0	99.9	99.4	121.3	118.0
	7	118.4	118.3	98.5	94.2	105.4	100.1	119.2	116.1
	8	112.2	112.0	90.1	86.8	102.9	89.8	111.2	116.6
	9	111.9	112.5	69.1	85.4	95.6	97.1	114.3	117.0

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
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	102.7	107.2	105.9	87.7	104.0
2018		98.8	100.0	108.4	103.5	89.6	102.2
2019		98.4	97.9	102.2	99.6	92.7	103.8
2020		95.3	92.1	93.5	93.4	82.2	101.1
2021 <sup>P</sup>		99.8	97.5	101.1	97.1	84.0	107.9
2020	9	100.8	93.2	95.6	95.7	95.1	110.5
	10	98.5	95.1	101.4	93.9	92.8	105.8
	11	100.3	95.9	105.2	81.6	92.2	110.2
	12	103.1	98.2	101.8	93.7	87.6	117.1
2021 <sup>P</sup>	1	96.2	96.3	73.6	96.7	89.3	100.1
	2	87.8	88.8	77.9	93.0	76.9	92.3
	3	103.7	98.8	110.5	101.2	95.7	112.7
	4	100.4	98.8	115.7	96.7	92.0	107.9
	5	98.6	98.3	106.4	96.7	78.3	104.7
	6	102.9	98.7	109.0	94.3	91.2	111.5
	7	102.1	102.7	104.4	102.0	85.3	110.6
	8	95.8	98.5	93.6	103.8	70.4	101.3
	9	96.6	95.3	92.3	98.9	70.4	102.5
	10	99.9	97.1	106.8	93.8	78.3	110.2
	11	104.5	98.7	111.6	88.2	87.3	116.8
	12	109.4	98.3	110.9	99.9	92.5	123.6
2022 <sup>P</sup>	1	100.2	100.6	85.5	100.0	79.0	107.0
	2	92.9	88.9	81.3	89.4	79.2	99.0
	3	107.2	100.6	108.5	98.9	91.1	112.0
	4	103.6	95.3	114.7	92.0	91.8	108.7
	5	105.1	98.5	117.2	92.4	91.8	109.9
	6	103.2	96.5	103.9	89.3	95.8	113.8
	7	102.2	98.4	111.1	93.6	94.7	114.2
	8	98.0	90.1	103.3	91.2	87.0	105.9
	9	97.9	68.8	102.1	84.8	90.4	112.0

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		Billion KRW		1,000 m <sup>2</sup>
1990		-	37.6	-	-	20,964	-
1995		-	63.6	-	-	49,025	-
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		101.7	101.4	22,288	119,971	145,386	178,955
2017		116.4	111.5	26,234	139,039	142,966	171,875
2018		112.1	106.2	27,289	138,417	143,292	160,964
2019		105.8	95.8	25,405	139,311	154,243	144,293
2020		112.0	98.7	26,644	138,513	179,866	147,310
2021 <sup>P</sup>		122.7	104.4	35,616	141,252	197,113	173,206
2020	9	114.9	100.6	2,272	11,558	15,475	14,158
	10	104.9	93.7	2,142	10,589	14,003	12,132
	11	112.3	102.7	1,955	11,980	18,059	12,567
	12	132.8	130.7	2,551	14,922	29,219	15,441
2021 <sup>P</sup>	1	117.6	90.1	2,690	9,401	12,909	9,596
	2	103.9	85.7	2,926	9,392	12,270	10,867
	3	132.4	107.2	3,307	12,140	16,683	15,173
	4	135.0	109.1	3,029	11,510	17,777	16,145
	5	124.3	108.3	3,146	11,160	14,854	13,892
	6	135.6	120.1	3,172	13,247	18,308	16,014
	7	128.6	104.4	3,050	10,993	14,511	14,592
	8	113.5	99.1	2,549	11,018	15,421	13,946
	9	109.2	101.3	2,665	11,439	14,489	14,652
	10	108.1	94.1	2,755	11,710	15,554	14,690
	11	122.2	104.8	2,470	12,457	17,193	14,483
	12	141.6	128.1	3,932	16,817	27,164	19,169
2022 <sup>P</sup>	1	117.7	91.8	2,955	11,110	16,061	13,736
	2	106.4	84.4	2,791	10,104	12,228	11,862
	3	125.3	106.3	4,028	12,922	19,190	15,058
	4	119.2	98.6	3,360	12,553	18,224	17,899
	5	131.0	105.0	3,177	13,340	19,076	19,522
	6	135.1	114.5	3,331	14,858	24,987	14,961
	7	126.2	102.3	3,003	12,226	20,837	15,614
	8	129.3	103.9	3,614	12,620	17,506	15,990
	9	123.0	108.2	3,080	12,858	20,834	13,929

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
		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	-
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	75,902	80,605	-14,670	13,487	-3,519	-386
2021 <sup>p</sup>		644,400	615,093	88,302	76,207	-3,108	19,328	-4,125	-154
2020	9	47,820	39,400	10,672	12,017	-1,996	1,077	-426	-5
	10	44,819	39,094	12,057	10,234	-772	2,923	-329	-17
	11	45,752	39,945	9,619	9,970	-793	767	-326	-91
	12	51,332	44,638	12,063	10,603	-437	2,589	-692	-37
2021 <sup>p</sup>	1	48,007	44,457	6,781	5,577	-935	2,572	-433	-12
	2	44,707	42,405	8,058	5,859	177	2,285	-265	-16
	3	53,691	49,743	7,499	7,846	-1,103	1,292	-535	-5
	4	51,226	50,891	181	4,947	-130	-3,915	-722	-16
	5	50,725	47,911	10,406	6,649	-731	5,027	-538	-8
	6	54,779	50,429	8,831	7,554	-1,024	2,557	-256	5
	7	55,462	53,676	7,707	5,546	-284	2,845	-400	-14
	8	53,165	51,581	7,440	6,027	841	642	-69	-18
	9	55,914	51,636	10,506	9,551	-60	1,131	-116	-10
	10	55,660	53,848	8,010	6,102	645	1,251	13	-5
	11	60,331	57,358	6,821	6,068	-269	1,174	-153	-41
	12	60,734	61,160	6,062	4,482	-236	2,467	-651	-15
2022 <sup>p</sup>	1	55,459	60,375	1,916	820	-492	1,878	-291	-5
	2	54,155	53,324	6,419	4,273	570	1,707	-131	-4
	3	63,794	63,769	7,058	5,638	358	1,150	-88	43
	4	57,849	60,205	-79	2,948	573	-3,246	-354	-9
	5	61,598	63,138	3,860	2,742	-16	1,451	-316	-1
	6	57,685	60,142	5,610	3,594	-492	2,769	-261	2
	7	60,261	65,346	791	-1,435	294	2,267	-335	-4
	8	56,653	66,053	-3,049	-4,449	-774	2,242	-67	-2
	9	57,208	61,023	1,611	494	-343	1,837	-376	78

자료: 한국은행

Source: Bank of Korea.

## 8.6. 자동차 등록대수

		총대수	유종별 Fuel type							
			휘발유	경유	액화석유가스	압축천연가스	하이브리드 <sup>1</sup>	전기	기타 <sup>2</sup>	
		Total	Gasoline	Diesel	LPG	CNG	Hybrid <sup>1</sup>	Electricity	Others <sup>2</sup>	Hydrogen
		Thousand unit								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
2021 <sup>p</sup>		24,911	11,760	9,872	1,946	35	871	231	177	19,404
2020	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
	12	24,911	11,760	9,872	1,946	35	871	231	177	19,404
2022 <sup>p</sup>	1	24,971	11,794	9,880	1,943	35	887	233	179	19,613
	2	25,015	11,813	9,881	1,939	35	905	241	180	20,295
	3	25,070	11,841	9,870	1,935	35	928	258	183	20,683
	4	25,121	11,873	9,851	1,931	34	952	273	185	21,892
	5	25,167	11,901	9,833	1,928	34	975	286	187	23,129
	6	25,216	11,927	9,820	1,925	34	997	299	189	24,119
	7	25,280	11,959	9,815	1,923	34	1,019	314	192	24,687
	8	25,315	11,975	9,802	1,920	34	1,037	328	194	25,570
	9	25,356	11,992	9,789	1,917	34	1,055	347	195	26,719

1. 하이브리드: 휘발유+전기

2. 기타: 등유, 알코올, 태양열, LNG, 하이브리드(경유+전기, LPG+전기, CNG+전기, LNG+전기), 기타연료 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		
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
1,828	96	22,987	20,411	750	3,632	119		2021 <sup>p</sup>
1,730	94	22,377	19,694	792	3,613	103	9	2020
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	
1,828	96	22,987	20,411	750	3,632	119	12	
1,835	96	23,039	20,462	748	3,641	120	1	2022 <sup>p</sup>
1,842	96	23,078	20,499	746	3,650	121	2	
1,851	96	23,124	20,550	743	3,655	122	3	
1,861	95	23,164	20,601	739	3,657	123	4	
1,870	95	23,202	20,648	736	3,659	124	5	
1,877	96	23,243	20,695	735	3,661	125	6	
1,887	97	23,296	20,751	733	3,670	126	7	
1,891	97	23,327	20,781	731	3,676	127	8	
1,893	97	23,366	20,816	729	3,683	128	9	

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
		℃	Degree day	
1990		12.8	2,557.6	125.9
1995		12.2	2,738.9	109.1
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
2021 <sup>P</sup>		13.7	2,456.8	205.9
2020	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	-
	12	0.6	539.9	-
2022 <sup>P</sup>	1	-2.2	626.1	-
	2	-1.1	535.5	-
	3	7.7	313.6	-
	4	14.8	107.1	-
	5	19.1	19.4	-
	6	23.3	0.5	20.5
	7	27.3	-	104.0
	8	25.7	-	70.1
	9	22.4	0.5	10.3

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							
		Income	Consumption expenditure	전기료	연료비	공동주택난방비	운송기구연료비	공공교통			개인교통
				Electricity	Fuel	APT Heating	Fuel of vehicles	Public transport			Private transport
		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		
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		-	2,957,928	-	89,948	-	110,384	-	-		
2020		-	2,910,251	-	94,461	-	111,025	-	-		
2021 <sup>p</sup>		-	2,945,181	-	97,278	-	106,582	-	-		
2019	2/4	5,055,595	2,848,503	-	83,107	-	108,509	-	-		
	3/4	5,250,242	3,002,252	-	61,635	-	113,702	-	-		
	4/4	5,082,343	2,915,577	-	76,374	-	109,240	-	-		
2020	1/4	5,355,111	2,876,187	-	134,785	-	100,127	-	-		
	2/4	5,295,397	2,924,876	-	88,575	-	112,262	-	-		
	3/4	5,295,075	2,939,299	-	65,784	-	118,308	-	-		
	4/4	5,150,652	2,900,759	-	86,201	-	114,888	-	-		
2021 <sup>p</sup>	1/4	5,242,096	2,898,699	-	148,629	-	101,244	-	-		
	2/4	5,094,750	2,949,418	-	82,830	-	107,609	-	-		
	3/4	5,555,522	3,006,899	-	74,993	-	111,808	-	-		
	4/4	5,322,508	2,941,110	-	82,815	-	105,476	-	-		
2022 <sup>p</sup>	1/4	5,610,282	2,913,924	-	144,992	-	98,445	-	-		
	2/4	5,481,910	2,965,384	-	79,336	-	103,481	-	-		
	3/4	5,409,210	3,027,378	-	68,157	-	112,172	-	-		

주 1. 2020년 실질 기준

2. 1990~2002년: 구분류 기준 도시 2인 이상 가구

3. 2003~2018: 신분류 기준 전국 2인 이상 가구

4. 2019년 이후: 비농림어가, 전국 2인 이상 가구

5. 기간별 상세 기준은 통계청의 가계동향조사 참고

자료: 통계청 가계동향조사

Note 1. At chained 2020 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 세계 원유 생산

World Crude Oil Production

##### 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

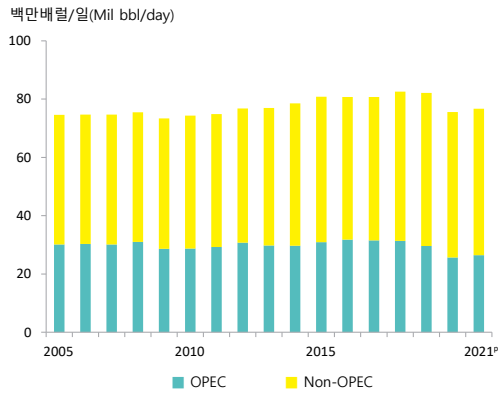
#### 9.3 국제 석유 가격

International Oil Prices

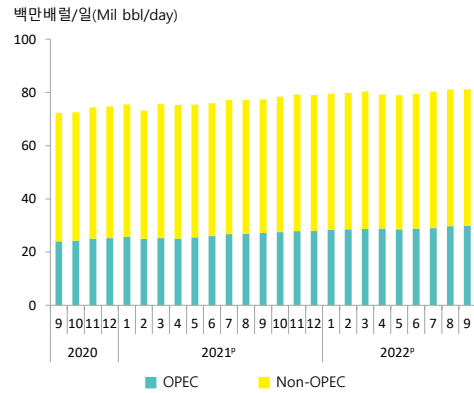


## ● 세계 원유 생산 World Crude Oil Production

〈2005~2021<sup>o</sup>〉

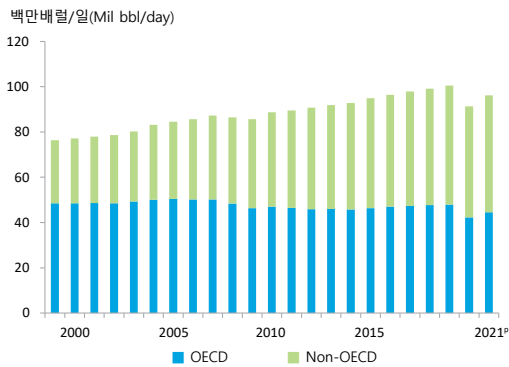


〈월별 Monthly〉

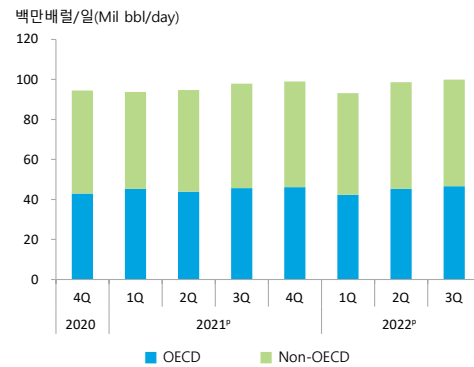


## ● 세계 석유 수요 World Oil Demand

〈1999~2021<sup>o</sup>〉

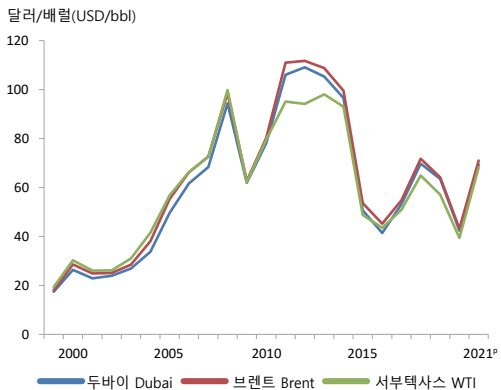


〈분기 Quarterly〉

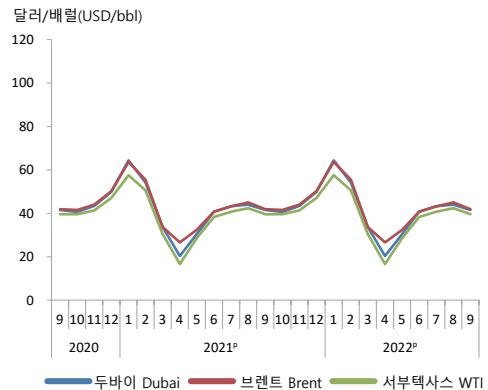


## ● 국제 석유 가격 International Oil Prices

〈1999~2021<sup>o</sup>〉



〈월별 Monthly〉



### 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	베네주엘라 Venezuela	나이지리아 Nigeria
		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
2009		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
2021 <sup>P</sup>		26.43	9.28	2.42	4.03	2.54	2.76	0.61	1.31
2020	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	25.31	9.09	2.17	3.86	2.40	2.60	0.44	1.20
2021 <sup>P</sup>	1	25.77	9.24	2.30	3.83	2.43	2.65	0.50	1.34
	2	25.00	8.32	2.23	3.89	2.48	2.65	0.56	1.42
	3	25.30	8.30	2.43	3.93	2.45	2.65	0.58	1.42
	4	25.09	8.29	2.40	3.95	2.44	2.65	0.46	1.37
	5	25.55	8.71	2.36	3.94	2.49	2.68	0.58	1.34
	6	26.01	9.07	2.45	3.93	2.52	2.72	0.60	1.31
	7	26.77	9.62	2.50	3.97	2.54	2.76	0.57	1.32
	8	26.91	9.71	2.42	4.07	2.55	2.81	0.58	1.24
	9	27.25	9.83	2.48	4.15	2.60	2.84	0.61	1.25
	10	27.50	9.95	2.48	4.16	2.64	2.87	0.71	1.23
	11	27.86	10.05	2.47	4.26	2.67	2.90	0.78	1.29
	12	28.03	10.17	2.50	4.30	2.70	2.92	0.80	1.21
2022 <sup>P</sup>	1	28.35	10.25	2.48	4.30	2.72	3.11	0.69	1.38
	2	28.52	10.34	2.58	4.23	2.72	3.00	0.76	1.27
	3	28.75	10.42	2.58	4.33	2.78	3.15	0.72	1.25
	4	28.84	10.58	2.54	4.43	2.80	3.18	0.76	1.23
	5	28.51	10.64	2.38	4.44	2.81	3.25	0.73	1.07
	6	28.88	10.68	2.50	4.47	2.82	3.44	0.73	1.16
	7	29.02	10.95	2.49	4.53	2.91	3.33	0.63	1.08
	8	29.78	11.12	2.57	4.54	2.96	3.41	0.69	0.98
	9	29.83	11.19	2.49	4.55	2.98	3.48	0.67	0.96

1. 기타석유, NGL, 콘덴세이트 포함.

2. 중립지대 자원 포함.

자료: IEA-Oil Market Report

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

2. Includes oil production from neutral zones.

Source: IEA-Oil Market Report

## 9.1.2 세계 원유 생산: 비OPEC

## World 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
2021 <sup>P</sup>		76.66	50.23	11.25	3.26	10.52	3.93	1.78	2.91
2020	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	75.57	49.80	11.12	3.25	10.17	3.91	1.73	2.87
	2	73.22	48.22	9.92	3.09	10.11	3.91	1.75	2.82
	3	75.61	50.31	11.33	3.30	10.26	3.97	1.78	2.85
	4	75.31	50.22	11.30	3.32	10.48	3.94	1.77	2.98
	5	75.46	49.91	11.36	3.12	10.47	3.95	1.78	2.93
	6	76.01	50.00	11.36	3.25	10.44	4.00	1.79	2.91
	7	77.21	50.44	11.35	3.24	10.48	3.92	1.79	3.05
	8	77.17	50.26	11.28	3.33	10.44	3.95	1.75	3.00
	9	77.36	50.11	10.92	3.26	10.73	3.98	1.81	3.00
	10	78.41	50.91	11.57	3.32	10.86	3.91	1.80	2.78
	11	79.31	51.45	11.79	3.36	10.91	3.91	1.80	2.86
	12	79.03	51.00	11.63	3.23	10.93	3.82	1.81	2.84
2022 <sup>P</sup>	1	79.52	51.17	11.37	3.18	11.03	4.08	1.83	3.04
	2	79.82	51.30	11.32	3.32	11.06	4.08	1.81	2.92
	3	80.40	51.65	11.70	3.35	11.02	4.11	1.83	2.98
	4	79.29	50.45	11.67	3.34	10.07	4.08	1.82	3.00
	5	78.97	50.46	11.63	3.27	10.23	4.08	1.84	2.88
	6	79.44	50.56	11.80	3.25	10.74	4.13	1.84	2.84
	7	80.37	51.35	11.87	3.42	10.77	3.98	1.85	2.96
	8	81.11	51.33	11.98	3.51	10.63	3.93	1.85	3.08
	9	81.26	51.43	11.89	3.57	10.75	4.03	1.85	3.14

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								
			아메리카	유럽	아시아·오세아니아		러시아	유럽	중국	기타 아시아	중남미	중동	아프리카	
	World	OECD	Americas	Europe	Asia-Oceania	Non-OECD	Russia	Europe	China	Other Asia	Latin America	Middle East	Africa	
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
2021 <sup>P</sup>		96.2	44.5	24.2	13.0	7.4	51.7	4.8	0.8	15.1	13.2	6.0	7.9	4.0
2020	3Q	93.5	43.2	23.3	13.1	6.8	50.3	4.7	13.1	14.4	12.6	5.8	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>P</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
	4Q	99.0	46.1	24.7	13.7	7.7	52.9	5.0	13.7	15.4	13.8	6.1	7.8	4.0
2022 <sup>P</sup>	1Q	98.8	45.5	24.5	13.1	7.9	53.3	4.6	13.1	15.5	13.8	6.0	8.5	4.2
	2Q	98.6	45.3	24.8	13.5	7.0	53.3	4.7	13.5	14.6	14.0	6.1	9.0	4.1
	3Q	99.9	46.6	25.3	14.1	7.2	53.3	5.0	14.1	14.5	13.4	6.1	9.5	4.0

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>
		USD/bbl					
1990		21.3	20.7	20.5	-	-	20.8
1995		16.9	16.8	16.1	-	-	16.4
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
2021 <sup>P</sup>		69.7	70.5	69.4	71.0	68.1	69.5
2020	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
	12	74.4	75.5	73.2	74.8	71.7	73.2
2022 <sup>P</sup>	1	85.4	86.2	83.5	85.6	83.0	83.6
	2	94.2	93.8	92.4	94.1	91.6	92.8
	3	113.5	113.0	110.9	112.5	108.3	111.1
	4	105.6	107.2	102.8	105.9	101.6	102.8
	5	113.9	116.4	108.2	112.0	109.3	108.2
	6	117.7	117.3	113.3	117.5	114.3	113.3
	7	108.6	109.0	103.1	105.1	99.4	103.3
	8	101.9	104.9	96.6	97.7	91.5	97.0
	9	95.3	99.3	91.0	90.6	83.8	91.0

1. 현물가격

자료: OPEC, 한국석유공사

1. Spot price

Source: OPEC, Korea National Oil Corporation

## 10. 에너지밸런스(개정전)

### PRE-REVISION ENERGY BALANCE

#### 10.1 주요 에너지지표

Major Energy Indicators

#### 10.2 에너지생산

Energy production by Source

#### 10.3 일차에너지공급

Primary Energy Supply by Source

#### 10.4 최종에너지 원별 소비

Final Energy Consumption by Source

#### 10.5 최종에너지 부문별 소비

Final Energy Consumption by Sector

##### 10.5.1 산업

Industry

##### 10.5.2 수송

Transport

##### 10.5.3 가정·상업

Residential and Commercial

##### 10.5.4 공공

Public



## 10.1 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	TPEC	Energy elasticity <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	1,000 toe	toe/Mil KRW	△TPES/△GDP	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
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
2021 <sup>P</sup>		305,476	234,913	0.160	1.147	137,200	92.8	38.6
2020	9	23,129	17,765	0.155	4.810	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			7,685	93.4	34.5
2021 <sup>P</sup>	1	28,404	21,784	0.173	1.115	8,209	93.8	33.8
	2	24,722	19,794			9,560	93.2	37.2
	3	25,532	19,953			9,324	92.8	37.7
	4	23,826	18,812			9,662	91.9	40.1
	5	23,896	18,474			9,738	91.7	39.9
	6	23,813	18,251			10,370	92.2	40.7
	7	25,937	19,022			12,170	92.5	38.4
	8	25,532	19,198			12,005	92.5	38.5
	9	24,288	18,852			12,318	92.6	41.6
	10	24,391	18,598			13,336	93.0	40.5
	11	25,422	19,498			14,678	93.3	38.1
	12	29,714	22,677			15,830	93.9	38.0
2022 <sup>P</sup>	1	30,176	23,274	0.176	1.564	18,343	93.3	36.9
	2	26,146	20,567			15,097	92.6	36.3
	3	26,026	20,275			18,721	92.3	38.1
	4	23,608	18,551			17,332	91.2	39.4
	5	24,912	19,107			17,090	91.1	40.9
	6	23,540	17,474			16,041	91.7	37.2
	7	26,585	19,465			21,044	92.0	38.6
	8	26,500	19,673			20,772	91.7	39.7
	9	24,000	18,341			19,990	91.4	42.1

1. 월별 수치는 분기자료임.

2. 원자력 발전량 포함

1. Monthly values are from quarterly data.

2. Includes nuclear power.



## 10.2 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
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
2021 <sup>P</sup>		55,612	425	55	1,435	33,657	20,040
2020	9	3,881	41	1	187	1,979	1,672
	10	4,636	37	0	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	1,596
	2	4,394	30	6	102	2,712	1,545
	3	4,803	39	7	109	2,939	1,709
	4	4,626	42	7	118	2,673	1,785
	5	4,714	33	8	136	2,718	1,819
	6	4,269	39	2	146	2,410	1,672
	7	4,560	37	3	152	2,621	1,747
	8	4,633	29	2	129	2,722	1,751
	9	4,393	30	3	122	2,593	1,645
	10	4,577	35	3	108	2,867	1,564
	11	4,556	38	3	92	2,890	1,533
	12	5,343	36	2	110	3,521	1,674
2022 <sup>P</sup>	1	5,456	34	0	111	3,430	1,881
	2	4,918	28	0	105	2,980	1,805
	3	4,988	36	0	118	2,954	1,881
	4	4,944	36	0	101	2,851	1,957
	5	5,331	34	0	115	3,112	2,071
	6	5,096	34	0	118	3,137	1,807
	7	5,395	32	0	146	3,271	1,947
	8	5,678	29	0	218	3,474	1,957
	9	5,063	29	0	171	3,002	1,861

1. 동해-1 가스전 생산량(2021년 12월 31일 생산 종료)

1. Production at Donghae-1 gas field (End of production on December 31, 2021).

2. 기타: 폐기물을 이용하여 제조한 것

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

## 10.3 일차에너지 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
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
2021 <sup>p</sup>		305,476	72,531	117,940	59,872	1,435	33,657	20,040
2020	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	28,404	6,509	9,609	7,589	110	2,991	1,596
	2	24,722	5,358	9,190	5,816	102	2,712	1,545
	3	25,532	5,565	9,615	5,595	109	2,939	1,709
	4	23,826	5,211	9,550	4,489	118	2,673	1,785
	5	23,896	5,677	9,544	4,001	136	2,718	1,819
	6	23,813	5,879	9,702	4,003	146	2,410	1,672
	7	25,937	6,986	9,968	4,463	152	2,621	1,747
	8	25,532	7,068	9,835	4,026	129	2,722	1,751
	9	24,288	6,041	10,094	3,792	122	2,593	1,645
	10	24,391	5,665	9,877	4,309	108	2,867	1,564
	11	25,422	6,061	9,678	5,168	92	2,890	1,533
	12	29,714	6,511	11,277	6,621	110	3,521	1,674
2022 <sup>p</sup>	1	30,176	6,526	11,141	7,088	111	3,430	1,881
	2	26,146	5,521	9,480	6,256	105	2,980	1,805
	3	26,026	5,131	9,921	6,022	118	2,954	1,881
	4	23,608	4,957	9,313	4,431	101	2,851	1,957
	5	24,912	5,490	10,183	3,941	115	3,112	2,071
	6	23,540	5,869	8,761	3,847	118	3,137	1,807
	7	26,585	6,718	10,259	4,244	146	3,271	1,947
	8	26,500	6,485	10,508	3,858	218	3,474	1,957
	9	24,000	5,429	10,093	3,443	171	3,002	1,861

1. 기타: 폐기물을 이용하여 제조한 것

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

## 10.4 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
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
2021 <sup>p</sup>		234,913	31,810	116,829	3,550	24,287	45,936	2,901	9,602
2020	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	21,784	2,711	9,417	300	3,737	4,197	587	834
	2	19,794	2,365	9,082	235	3,061	3,890	418	743
	3	19,953	2,798	9,551	272	2,522	3,708	298	803
	4	18,812	2,561	9,498	288	1,860	3,608	173	825
	5	18,474	2,705	9,489	285	1,531	3,517	128	820
	6	18,251	2,475	9,638	313	1,300	3,619	97	808
	7	19,022	2,693	9,865	347	1,213	3,959	103	843
	8	19,198	2,754	9,785	323	1,161	4,213	92	869
	9	18,852	2,665	10,010	279	1,142	3,860	85	812
	10	18,598	2,594	9,791	276	1,481	3,604	144	709
	11	19,498	2,742	9,581	286	2,174	3,690	283	742
	12	22,677	2,745	11,123	346	3,104	4,071	494	794
2022 <sup>p</sup>	1	23,274	2,687	10,886	335	3,630	4,290	574	872
	2	20,567	2,256	9,308	301	3,338	4,096	497	771
	3	20,275	2,369	9,784	272	2,707	3,950	345	849
	4	18,551	2,259	9,236	257	2,023	3,771	177	828
	5	19,107	2,640	10,125	261	1,518	3,638	117	809
	6	17,474	2,563	8,695	274	1,336	3,708	99	800
	7	19,465	2,547	10,185	260	1,315	4,183	108	866
	8	19,673	2,504	10,422	275	1,177	4,324	105	866
	9	18,341	2,164	10,009	223	1,153	3,907	93	791

1. 기타: 폐기물을 이용하여 제조한 것

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

## 10.5 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
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
2021 <sup>p</sup>		234,913	148,187	40,143	41,268	5,316
2020	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	21,784	12,326	3,077	5,835	546
	2	19,794	11,432	3,046	4,841	475
	3	19,953	12,488	3,178	3,809	479
	4	18,812	11,980	3,419	3,014	400
	5	18,474	12,132	3,428	2,533	381
	6	18,251	11,925	3,542	2,385	400
	7	19,022	12,704	3,426	2,460	431
	8	19,198	12,666	3,324	2,747	461
	9	18,852	12,601	3,367	2,469	415
	10	18,598	12,310	3,200	2,688	400
	11	19,498	12,254	3,317	3,503	424
	12	22,677	13,370	3,819	4,984	505
2022 <sup>p</sup>	1	23,274	13,431	3,530	5,753	560
	2	20,567	11,675	2,989	5,404	499
	3	20,275	12,562	3,021	4,212	479
	4	18,551	12,147	2,841	3,156	406
	5	19,107	12,261	3,913	2,537	396
	6	17,474	11,688	3,008	2,383	395
	7	19,465	12,760	3,603	2,633	469
	8	19,673	12,404	3,957	2,862	449
	9	18,341	11,922	3,371	2,630	418

## 10.5.1 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	-
1995		62,707	15,972	36,843	-	863	8,293	736
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
2021 <sup>p</sup>		148,187	31,597	73,346	3,550	8,760	24,309	6,625
2020								
	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	12,326	2,684	5,706	300	935	2,112	588
	2	11,432	2,347	5,607	235	801	1,928	513
	3	12,488	2,785	6,055	272	789	2,016	571
	4	11,980	2,552	5,894	288	690	1,975	581
	5	12,132	2,702	5,922	285	668	1,976	579
	6	11,925	2,472	5,974	313	638	1,978	550
	7	12,704	2,690	6,345	347	635	2,102	586
	8	12,666	2,751	6,359	323	613	2,054	567
	9	12,601	2,650	6,472	279	621	2,039	541
	10	12,310	2,558	6,286	276	713	1,978	498
	11	12,254	2,702	5,950	286	785	2,014	518
	12	13,370	2,703	6,776	346	873	2,137	535
2022 <sup>p</sup>								
	1	13,431	2,662	6,746	335	875	2,208	605
	2	11,675	2,240	5,814	301	776	2,017	528
	3	12,562	2,355	6,464	272	743	2,134	595
	4	12,147	2,251	6,253	257	751	2,044	592
	5	12,261	2,636	6,057	261	692	2,030	585
	6	11,688	2,559	5,619	274	686	2,003	548
	7	12,760	2,543	6,495	260	700	2,168	594
	8	12,404	2,500	6,348	275	601	2,109	572
	9	11,922	2,148	6,472	223	575	1,985	518

1. 기타: 폐기물을 이용하여 제조한 것

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

## 10.5.2 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	-
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
2021 <sup>p</sup>		40,143	10,354	19,860	3,033	1,060	291	704
2020								
	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	3,077	750	1,542	243	87	23	37
	2	3,046	795	1,552	221	78	23	32
	3	3,178	792	1,559	246	90	22	50
	4	3,419	871	1,723	236	86	22	70
	5	3,428	867	1,669	253	88	21	78
	6	3,542	908	1,744	288	91	25	84
	7	3,426	890	1,650	278	96	26	65
	8	3,324	909	1,594	261	92	28	83
	9	3,367	922	1,606	250	86	25	75
	10	3,200	816	1,549	272	88	24	39
	11	3,317	839	1,663	255	87	25	44
	12	3,819	995	2,006	230	91	27	46
2022 <sup>p</sup>								
	1	3,530	901	1,724	249	86	30	40
	2	2,989	771	1,445	238	77	27	44
	3	3,021	715	1,444	234	84	26	66
	4	2,841	687	1,385	223	83	26	62
	5	3,913	1,087	1,906	270	87	27	64
	6	3,008	748	1,397	239	85	28	82
	7	3,603	1,033	1,628	274	92	31	73
	8	3,957	1,042	1,920	261	91	33	77
	9	3,371	922	1,605	250	85	30	76

주: 합계에는 항공유, 중유 및 기타 석유제품 포함.

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

## 10.5.3 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
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
2021 <sup>p</sup>		23,725	17,543	212	-	2,683	1,571	11,104	3,290
2020	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	3,909	1,926	26	-	452	207	2,269	432
	2	3,136	1,704	18	-	311	156	1,813	358
	3	2,367	1,442	13	-	214	137	1,334	302
	4	1,742	1,272	9	-	166	115	854	225
	5	1,350	1,184	3	-	132	106	577	196
	6	1,097	1,288	3	-	124	116	355	214
	7	1,026	1,433	3	-	99	100	237	241
	8	1,232	1,515	4	-	113	90	222	230
	9	1,138	1,331	15	-	181	100	233	197
	10	1,421	1,266	36	-	238	126	467	210
	11	2,111	1,392	40	-	239	138	1,018	279
	12	3,195	1,789	42	-	416	180	1,725	405
2022 <sup>p</sup>	1	3,821	1,932	24	-	445	210	2,213	443
	2	3,494	1,910	17	-	354	189	2,053	421
	3	2,627	1,586	14	-	209	153	1,535	337
	4	1,808	1,348	8	-	123	107	946	239
	5	1,250	1,288	4	-	122	109	502	234
	6	1,015	1,369	4	-	91	93	311	252
	7	1,100	1,534	4	-	88	92	266	254
	8	1,223	1,639	4	-	139	100	209	271
	9	1,191	1,439	16	-	181	100	259	230

1. 기타: 폐기물을 이용하여 제조한 것  
 주 1. 신재생 원수치는 가정, 상업 합계임.  
 2. 연탄소비비는 모두 가정부문에 포함.

## Residential and Commercial

전력 Electricity		열 Heat		신재생 및 기타¹ Renewables & Others¹				
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		
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		
6,670	12,029	2,391	439	664	214	2021 <sup>9</sup>		
657	971	56	20	62	14	9	2020	
482	804	131	12	46	12	10		
501	872	246	25	47	13	11		
533	1,018	438	55	51	15	12		
597	1,198	506	68	59	21	1	2021 <sup>9</sup>	
575	1,124	362	46	57	20	2		
495	956	262	29	49	18	3		
508	899	154	16	51	17	4		
481	849	109	17	48	15	5		
502	911	63	31	50	16	6		
582	1,025	48	50	58	18	7		
776	1,128	41	46	77	20	8		
596	986	52	30	59	18	9		
508	896	121	20	51	16	10		
515	929	248	29	51	17	11		
535	1,127	424	58	53	20	12		
590	1,190	491	69	58	20	1		2022 <sup>9</sup>
588	1,219	426	60	57	21	2		
518	1,039	300	37	51	19	3		
524	966	155	19	51	18	4		
482	906	92	22	47	16	5		
500	972	61	34	49	17	6		
631	1,116	49	53	62	19	7		
750	1,196	48	52	73	20	8		
618	1,056	57	33	60	19	9		

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.



## 10.5.4 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
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
2021 <sup>a</sup>		5,316	1,140	74	2,637	71	1,394
2020	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>a</sup>	1	546	121	14	268	14	129
	2	475	95	11	239	9	121
	3	479	129	8	220	7	115
	4	400	82	5	204	3	107
	5	381	88	3	189	2	99
	6	400	83	3	203	3	107
	7	431	81	4	224	5	116
	8	461	103	4	226	4	123
	9	415	76	5	213	3	118
	10	400	91	3	197	3	105
	11	424	93	5	207	6	112
	12	505	97	10	246	12	140
2022 <sup>a</sup>	1	560	111	13	273	13	150
	2	499	110	11	246	11	121
	3	479	113	8	232	8	119
	4	406	82	4	211	3	106
	5	396	101	2	193	3	97
	6	395	79	3	206	4	104
	7	469	104	4	237	6	118
	8	449	80	4	236	6	123
	9	418	76	3	218	3	117

1. 최종적으로 열을 얻기 위해 사용된 에너지 상품들의 합계(열에너지(heat) 포함)

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





## 부록

### Glossary

- A. 에너지 단위
- B. 간이밸런스 용어
- C. 기타 에너지 용어

### A. 에너지 단위

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

## B. 간이밸런스 용어

### 1. 에너지밸런스 종류

#### ■ 확장밸런스 (Extended balance)

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

#### ■ 간이밸런스 (Simple balance)

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

### 2. 간이밸런스의 행 구조

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

#### ■ 국내생산 (Production)

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

#### ■ 수입 (Imports)

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

#### ■ 수출 (Exports)

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

#### ■ 국제해운병커링 (International marine bunkers)

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

### ■ 국제항공병커링 (International aviation bunkers)

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

### ■ 재고변화 (Stocks changes)

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

### 일차에너지공급 (Total primary energy supply)

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

### ■ 제품이동 (Transfers between commodities)

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

### 통계오차 (Statistical difference)

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

### 일차에너지소비 (Total primary energy consumption)

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

### 전환과정 (Transformation processes)

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

### ■ 발전전용 (Electricity-only plants)

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

### ■ 열병합 (CHP plants)

열병합발전은 단일 플랜트에서 전기와 열을 동시에 생산하는 방식을 말함.

### ■ 열전용 (Heat-only plants)

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

### ■ 석유제품생산 (Petroleum products)

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

### ■ 가스제조 (Gas manufacturing (transf.))

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

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

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

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

연료전지용 수소가 투입되어 전기가 생산되는 공정.

### 전환자체소비(Transformation own use)

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

### 손실 (Losses)

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

### 최종소비 (Total final consumption)

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

### ■ 산업 (Industry)

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

산업부문의 하위 분류는 한국표준산업분류체계를 따름.

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

### ■ 수송 (Transport)

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

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

### ■ 가정 (Residential)

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

### ■ 상업·공공 (Commercial & Public services)

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

## 3. 간이밸런스의 열 구조

### 석탄 및 석탄제품 (Coal)

#### ■ 무연탄 (Anthracite)

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



### ■ 유연탄 및 기타석탄 (Bituminous and other coal)

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

### ■ 천연가스 (Natural gas)

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

### ■ 도시가스 (City gas)

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

### ■ 원유 및 정제원료 (Crude oil & Refinery feedstocks)

#### ■ 원유 (Crude oil)

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

#### ■ 정제원료 (Refinery feedstocks)

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

#### ■ 첨가물 (Additives & Blending components)

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

#### ■ 기타탄화수소 (Other hydrocarbons)

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

### ■ 석유제품 (Petroleum)

#### ■ 정제가스 (Refinery gas)

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

### ■ 프로판 (Propane)

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

### ■ 부탄 (Butane)

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

### ■ 휘발유 (Motor gasoline)

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

### ■ 항공휘발유 (Aviation gasoline)

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

### ■ 휘발유형항공유 (Gasoline type jet fuel)

등유와 납사로 구성되며 항공기의 터빈동력에 사용되는 경질유임.

### ■ 등유형항공유 (Kerosene type jet fuel)

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

### ■ 등유 (Kerosene)

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

### ■ 경유 (Gas & Diesel oil)

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

### ■ B-A

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

### ■ B-B

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

### ■ B-C

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

### ■ 납사 (Naphtha)

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

### ■ 용제 (White spirit & SBP)

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

### ■ 윤활유 (Lubricants)

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

### ■ 아스팔트 (Bitumen)

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

### ■ 파라핀왁스 (Paraffin waxes)

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

### ■ 석유코크 (Petroleum coke)

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

### ■ 기타석유제품 (Other oil products)

위에서 정의되지 않은 모든 석유제품으로 주로 프로필렌과 황의 생산량임.

### 원자력 (Nuclear)

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

### 수력 (Hydro)

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

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

### 바이오 및 폐기물 (Renewables & Other sources)

산업폐기물, 도시폐기물\_재생, 도시폐기물\_비재생, 고형바이오매스, 바이오가스, 매립지가스, 바이오휘발유, 바이오경유, 기타 바이오연료, 목탄의 합계.

### 지열, 태양 및 기타 (Geothermal, solar, etc.)

지열, 태양광, 태양열, 해양, 풍력의 합계.

### 기타에너지원 (Other sources)

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

### 전기 (Electricity)

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

### 열 (Heat)

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

### 총에너지 (Total of all energy)

모든 에너지 상품의 합계.

### 메모: 신재생 (Memo: New and renewables)

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

### C. 기타 에너지 용어

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## 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

소 속	기관명		
	담당자		
	부서/직위	부서 :	직위 :
주 소	우편번호		
	주소		
담당자 연락처	전화		
	팩스		
	전자우편		
회원구분	● 일반회원(국내)< >   ● 일반회원(국외)< >   ● 포럼회원(국내)< >		

## 3. 연회비 납입방법

- 예금주 : 에너지경제연구원
- 은행명 : 국민은행 울산지점
- 계좌 번호 : 261-01-0002-719

## 4. 문의

- 에너지경제연구원 대외협력팀 김 동 현
  - 전화 : (052)714-2297
  - 팩스 : (052)714-2023



승인 번호  
제 339001 호

제38권 제12호  
**에너지통계월보**  
2022.12

발행일 : 2022년 12월  
발행인 : 임춘택  
발행처 : 에너지경제연구원  
우 44543 울산광역시 중구 종가로 405-11(성안동)

Vol. 38. No. 12  
**Monthly Energy Statistics**

Published on December 2022  
Publisher : Chun T. Rim  
Published by Korea Energy Economics Institute  
405-11, Jongga-ro, Jung-gu, Ulsan, Republic of Korea (44543)

---

인쇄 : (사)장애인동반성장협회 동반사업장