

2024/02

# 에너지통계월보

MONTHLY ENERGY STATISTICS

2023년 11월 자료





## 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.

현재 에너지통계월보는 2022년 10월 개정된 에너지밸런스를 기반으로 발간되고 있으나, 구에너지밸런스에 기반한 기존 에너지수급통계 이용자를 위하여 2024년 3월(2023년 12월 자료) 월보까지 10장 '에너지밸런스(개정전)'를 통하여 구에너지밸런스의 주요 자료를 제공할 예정입니다.



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# 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 간이에너지밸런스를 기준으로 작성됨.
- 개정된 에너지밸런스의 구성요소와 구조는 부록의 'B. 간이에너지밸런스 용어'를 참고
- 구에너지밸런스에 기반한 기존 에너지수급통계 이용자를 위하여 2024년 3월(2023년 12월 자료)까지 10장 '에너지밸런스(개정전)'를 통하여 구에너지밸런스의 주요 자료 제공 예정

## 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



## 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. 8차 에너지열량 환산기준(2022년 1월 통계부터 적용)

2022년 11월 21일 개정(2022년 1월부터 적용)

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

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

## 나. 총발열량 추이

에너지원		단위	총발열량(kcal)								'17년 대비 열량 증감
			1980	1981	1987	1990	2007	2012	2017	2022	
석유 (18종)	원유	kg	10,000	10,000	10,000	10,000	10,750	10,730	10,750	10,920	↑ 170
	휘발유	ℓ	8,300	8,300	8,300	8,300	8,000	7,780	7,810	7,750	↓ 60
	등유(실내)	ℓ	8,700	8,700	8,700	8,700	8,800	8,790	8,770	8,740	↓ 30
	등유(보일러)						8,950				
	경유	ℓ	9,200	9,200	9,200	9,200	9,050	9,010	9,030	9,020	↓ 10
	바이오디젤	ℓ	-	-	-	-	-	-	-	8,280	-
	B-A	ℓ	9,500	9,400	9,400	9,400	9,300	9,290	9,310	9,310	-
	B-B	ℓ	9,200	9,700	9,700	9,700	9,650	9,670	9,670	9,690	↑ 20
	B-C	ℓ	9,900	9,900	9,900	9,900	9,900	9,950	9,960	9,980	↑ 20
	프로판	kg	12,000	12,000	12,000	12,000	12,050	12,050	12,040	12,000	↓ 40
	부탄	kg	11,800	11,800	11,800	11,800	11,850	11,850	11,820	11,790	↓ 30
	나프타	ℓ	8,000	8,000	8,000	8,000	8,050	7,710	7,710	7,700	↓ 10
	용제	ℓ	-	-	-	(8,200)	7,950	7,950	7,830	7,830	-
	항공유(JA-1)	ℓ	-	8,700	8,700	8,700	8,750	8,730	8,720	8,720	-
	항공유(JP-4)	ℓ	-	8,500	8,500	8,500					
	항공유(AVI-G)	ℓ	-	8,700	8,700	8,700					
	아스팔트	kg	-	-	-	(10,000)	9,900	9,910	9,890	9,880	↓ 10
	윤활유	ℓ	-	-	-	(9,400)	9,250	9,500	9,550	9,450	↓ 100
	석유코크스	kg	-	-	-	(10,800)	8,100	8,000	8,360	8,330	↓ 30
	부생연료유1호	ℓ	-	-	-	-	8,850	8,800	8,860	8,900	↑ 40
	부생연료유2호	ℓ	-	-	-	-	9,700	9,550	9,530	9,530	-
가스 (3종)	액화천연가스(LNG)	kg	-	9,500	12,980	13,000	13,000	13,040	13,060	13,080	↑ 20
	도시가스(LNG)	Nm³	7,000	7,000	7,000	10,500	10,550	10,430	10,290	10,190	↓ 100
	도시가스(LPG)	Nm³	-	-	-	15,000	15,000	15,000	15,190	15,150	↓ 40
석탄 (7종)	국내 무연탄	kg	4,600	4,600	4,500	4,500	4,650	4,500	4,730	4,710	↓ 20
	연료용 수입 무연탄	kg	-	-	-	6,000	6,550	5,020	5,060	5,500	↑ 440
	원료용 수입 무연탄	kg						5,900	6,020	6,170	↑ 150
	연료용 유연탄(역청탄)	kg	6,600	6,600	6,600	6,600	6,200	6,160	5,920	5,860	↓ 60
	원료용 유연탄(역청탄)	kg					7,000	7,000	6,970	7,030	↑ 60
	아역청탄	kg	-	-	-	-	5,350	5,420	5,110	4,920	↓ 190
	코크스	kg	6,500	6,500	6,500	6,500	7,050	6,960	6,930	6,840	↓ 90
전기 등 (3종)	전기(발전기준)	kWh	2,500	2,500	2,500	2,500	2,150	2,110	2,130	2,130	-
	전기(소비기준)	kWh	-	-	-	-	-	2,300	2,290	2,290	-
	신탄	kg	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	-



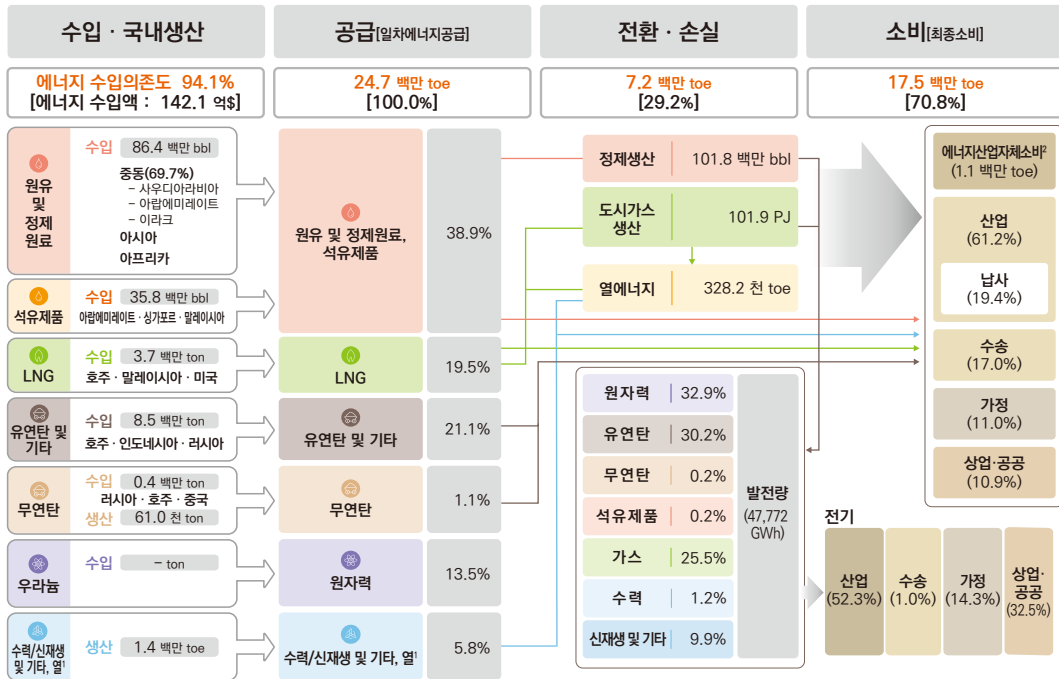


## 목차

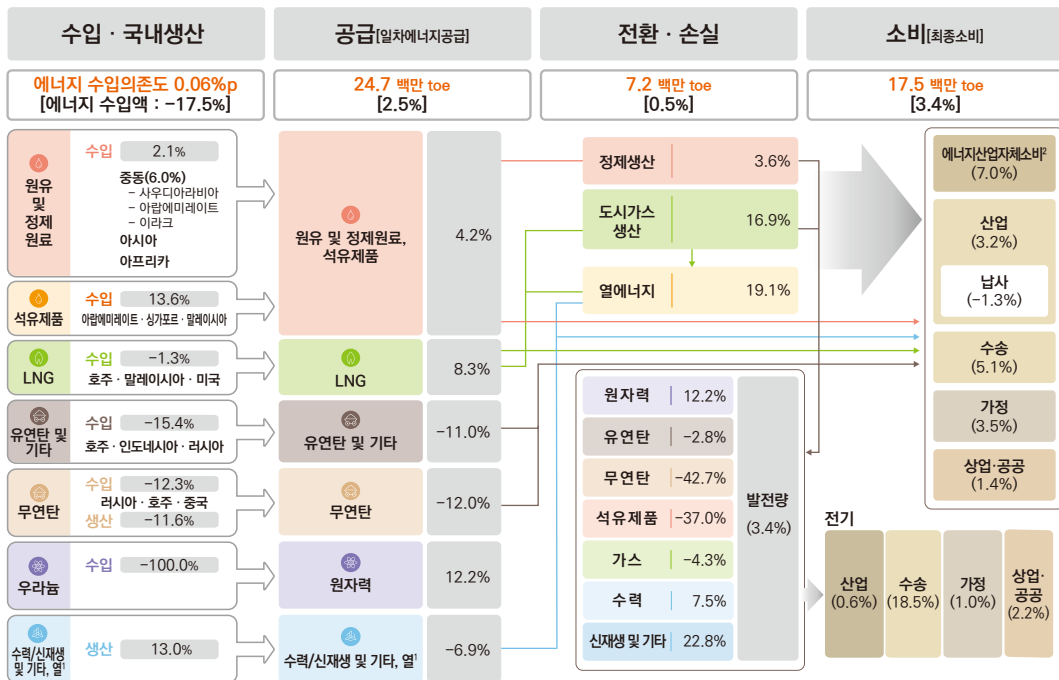
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## 2023년 11월 에너지 플로우

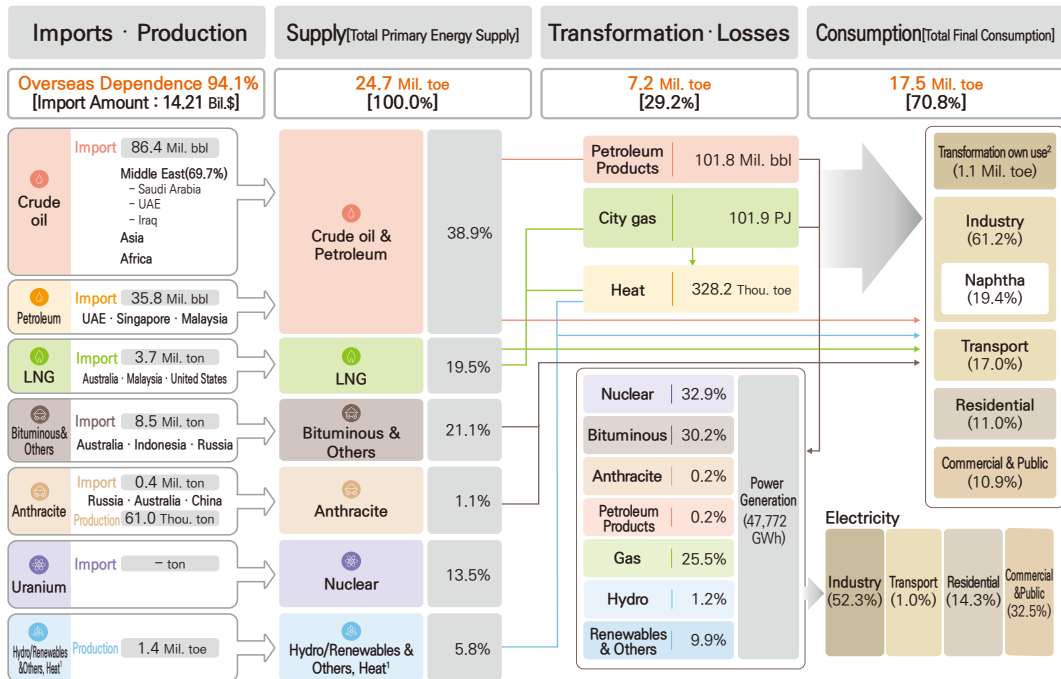


## 2023년 11월 에너지 플로우(전년 동월대비)

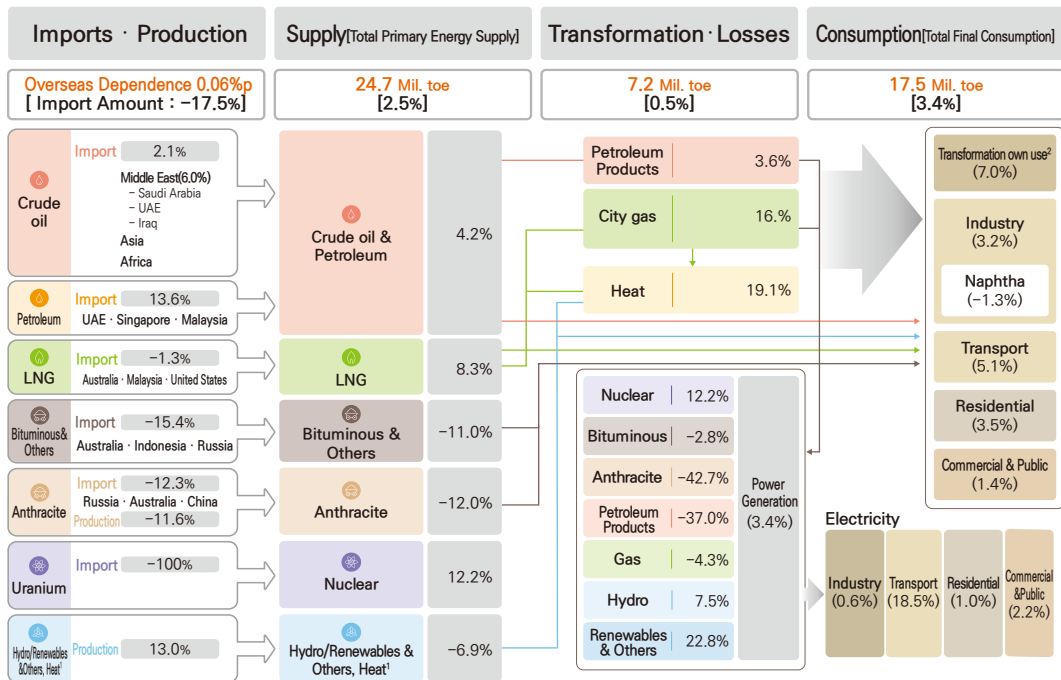


1. 신재생 및 기타에너지: 1)바이오및폐기물, 2)지열, 태양및기타로 구성됨.
2. 에너지산업 자체소비는 에너지생산 플랜트의 활동을 유지하는데 사용되는 에너지 상품을 의미. 다른 에너지 상품으로 전환되지 않기 때문에 전환과정과 구별되며, 산업활동을 위한 에너지소비인 최종소비 산업부문에도 포함되지 않음.

## November 2023 Energy Flow



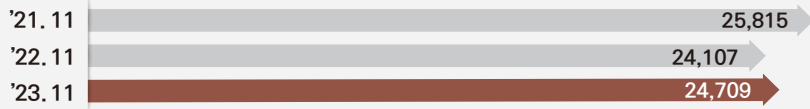
## November 2023 Energy Flow (Year-Over-Year)



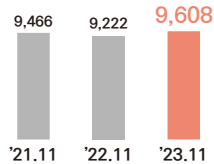
1. Renewables & Others consist of 1) Biofuels and waste, 2) Geothermal, solar, etc.

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

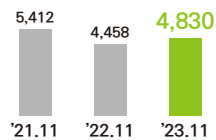
## 일차에너지공급 Total Primary Energy Supply (단위: 1,000 toe)



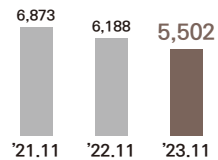
### 합계 Total



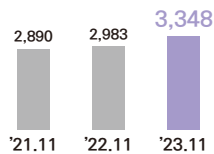
석유 Oil



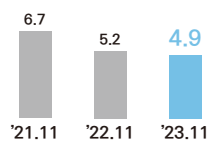
가스 Gas



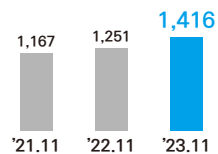
석탄 Coal



원자력 Nuclear

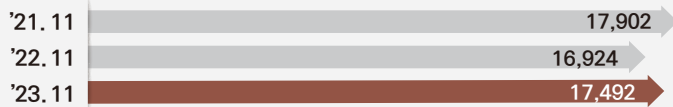


열 Heat

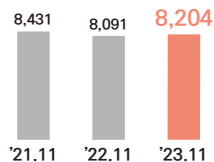


수력/신재생및기타<sup>1)</sup> Hydro/Renewables & Others<sup>1)</sup>

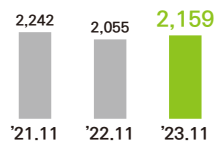
## 최종소비 Total Final Consumption (단위: 1,000 toe)



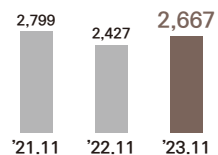
### 합계 Total



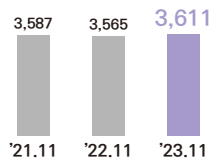
석유제품 Petroleum



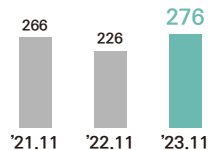
가스 Gas



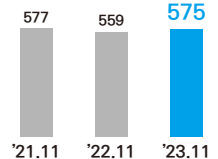
석탄 Coal



전기 Electricity



열 Heat



수력/신재생및기타<sup>1)</sup> Hydro/Renewables & Others<sup>1)</sup>

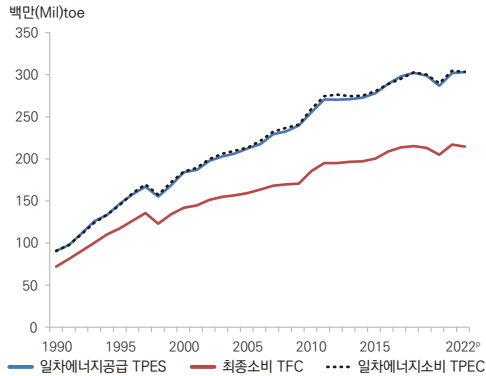
1. 신재생 및 기타에너지: 1)바이오및폐기물, 2)지열, 태양및기타로 구성됨.

1. Renewables & Others consist of 1) Biofuels and waste, 2) Geothermal, solar, etc.

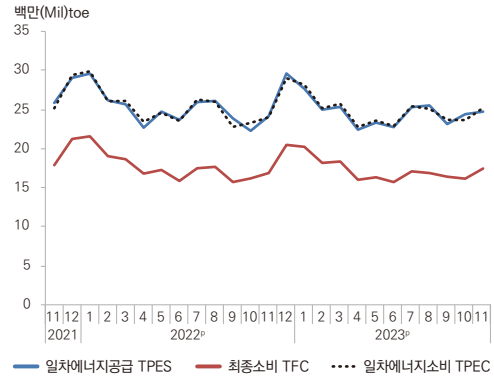


## ● 일차에너지공급, 최종소비 Total Primary Energy Supply, Total Final Consumption

〈1990~2022<sup>p</sup>〉

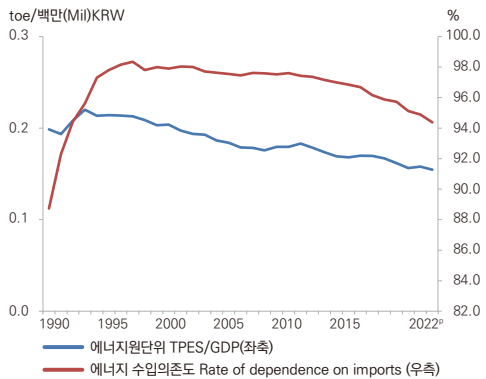


〈월별 Monthly〉

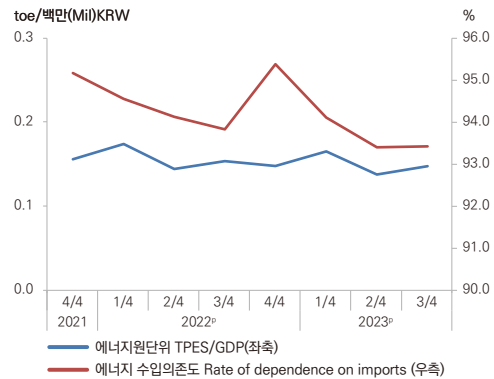


## ● 에너지원단위, 에너지 수입의존도 Energy Intensity, Energy dependence on imports

〈1990~2022<sup>p</sup>〉

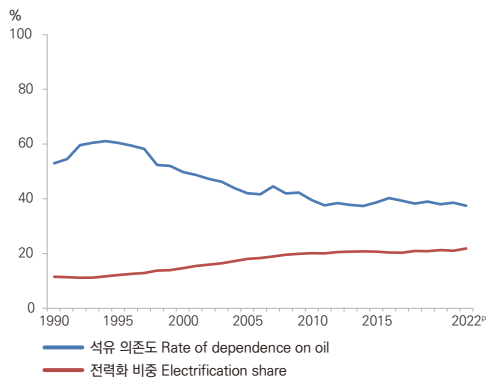


〈분기 Quarterly〉

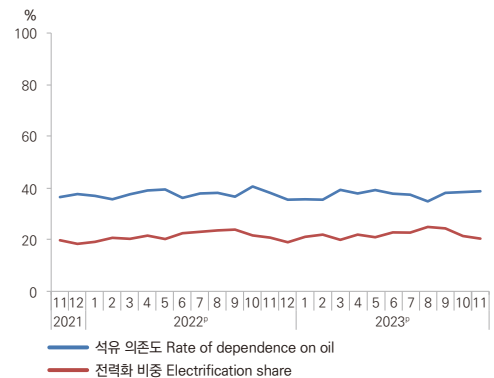


## ● 석유 의존도, 전력화 비중 Rate of Dependence on Oil, Electrification Share

〈1990~2022<sup>p</sup>〉



〈월별 Monthly〉



## 1.1 주요 에너지지표

## Principal Energy Indicators

구분		일차에너지 공급	일차에너지 소비	최종소비	에너지원단위 <sup>1</sup>	에너지수입액	에너지 수입의존도 <sup>2</sup>	석유 의존도	전력화 비중	
		TPES	TPEC	TFC	TPES/GDP <sup>1</sup>	Energy imports value	Rate of dependence on imports <sup>2</sup>	Rate of dependence on oil	Electrification share	
		1,000 toe			toe/mil.KRW	Mil USD	%			
		1990	89,680	89,775	71,150	0.197	8,209	88.7	52.8	11.2
		1995	145,618	144,201	116,508	0.213	18,670	97.7	60.3	11.9
		2000	183,078	183,950	140,958	0.203	37,622	97.8	49.6	14.4
		2001	185,809	188,021	143,589	0.196	33,652	98.0	48.6	15.2
		2002	196,452	198,596	150,381	0.192	31,997	97.9	47.1	15.7
		2003	201,738	204,898	153,972	0.192	37,982	97.6	46.0	16.1
		2004	205,220	208,533	155,678	0.185	49,075	97.5	43.7	16.9
		2005	211,344	212,129	158,478	0.183	66,238	97.5	41.8	17.7
		2006	216,261	220,287	162,528	0.178	84,905	97.4	41.4	18.1
		2007	228,129	231,105	167,225	0.177	94,306	97.5	44.4	18.6
		2008	231,298	235,702	168,469	0.175	139,288	97.5	41.7	19.3
		2009	238,416	239,526	169,567	0.178	90,259	97.4	42.1	19.6
		2010	254,399	258,112	184,581	0.178	120,478	97.5	39.4	19.8
		2011	269,199	273,296	193,726	0.182	170,497	97.4	37.4	19.8
		2012	268,993	274,889	193,771	0.178	182,252	97.3	38.2	20.3
		2013	269,531	273,137	195,292	0.172	176,561	97.1	37.6	20.5
		2014	271,252	273,712	195,889	0.168	170,117	96.9	37.2	20.5
		2015	276,793	279,328	199,347	0.167	100,440	96.8	38.4	20.4
		2016	288,018	287,561	207,553	0.169	79,953	96.6	40.0	20.1
		2017	296,719	293,820	212,431	0.169	107,921	96.1	39.1	20.0
		2018	300,738	301,324	214,001	0.166	143,285	95.8	38.1	20.6
		2019	297,612	298,618	211,733	0.161	124,777	95.7	38.8	20.6
		2020	285,512	288,410	203,747	0.155	85,444	95.0	37.8	21.0
		2021	300,515	303,183	215,664	0.157	135,935	94.8	38.3	20.7
		2022 <sup>p</sup>	303,929	304,492	213,720	0.154	216,409	94.4	37.7	21.5
2021	11	25,815	25,110	17,902	-	14,519	95.2	36.7		20.0
	12	28,984	29,339	21,217	0.156	15,519	95.1	37.8		18.6
2022 <sup>p</sup>	1	29,524	29,806	21,568	-	18,361	95.4	37.1		19.4
	2	26,119	26,007	19,071	-	14,959	94.9	35.8		21.0
	3	25,610	26,058	18,671	0.174	19,148	94.5	37.8		20.6
	4	22,677	23,421	16,831	-	17,074	93.6	39.2		21.8
	5	24,687	24,569	17,316	-	17,157	93.6	39.6		20.5
	6	23,661	23,511	15,901	0.144	16,052	94.1	36.3		22.8
	7	25,898	26,222	17,509	-	20,859	94.2	38.1		23.3
	8	26,054	25,950	17,695	-	20,464	94.0	38.3		23.9
	9	23,840	22,770	15,773	0.153	19,516	93.8	36.8		24.2
	10	22,264	23,250	16,234	-	17,479	93.6	40.7		21.9
	11	24,107	23,988	16,924	-	17,229	94.6	38.3		21.1
	12	29,532	28,953	20,488	0.148	18,110	95.4	35.6		19.2
2023 <sup>p</sup>	1	27,581	28,092	20,220	-	17,921	94.9	35.8		21.3
	2	24,943	25,121	18,207	-	17,706	94.7	35.6		22.2
	3	25,310	25,677	18,390	0.165	16,264	94.1	39.4		20.2
	4	22,415	22,762	16,058	-	12,699	92.9	38.0		22.2
	5	23,294	23,570	16,395	-	13,175	93.6	39.4		21.2
	6	22,721	22,881	15,768	0.138	11,696	93.4	38.0		23.0
	7	25,271	25,379	17,126	-	11,807	93.6	37.6		23.0
	8	25,498	25,037	16,922	-	12,790	93.3	35.0		25.2
	9	23,140	23,649	16,453	0.148	13,770	93.3	38.3		24.6
	10	24,361	23,628	16,212	-	14,120	94.0	38.6		21.6
	11	24,709	25,174	17,492	-	14,214	94.1	38.9		20.6
2022 <sup>p</sup>	1-11	274,444	275,551	193,493	-	198,299	94.2	38.0		21.8
2023 <sup>p</sup>	1-11	269,244	270,970	189,243	-	156,163	93.8	37.7		22.3

1. 월별 수치는 분기자료임.

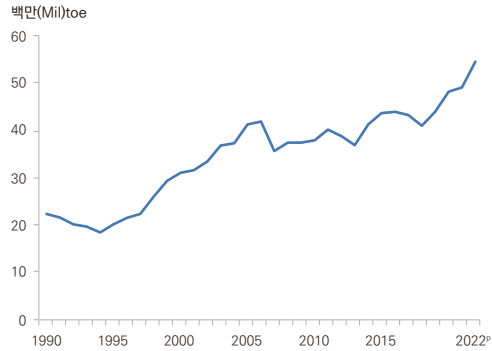
2. 원자력 발전 포함.

1. Monthly figures are on quarterly basis.

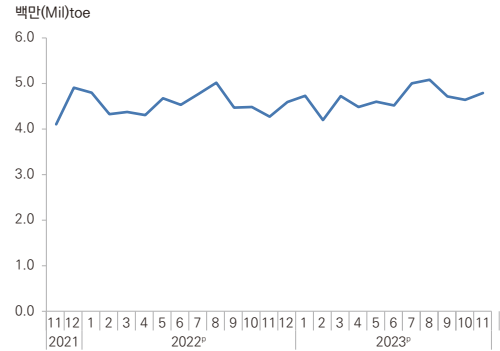
2. Includes nuclear power.

## ● 에너지 생산 Energy Production

〈1990~2022<sup>o</sup>〉

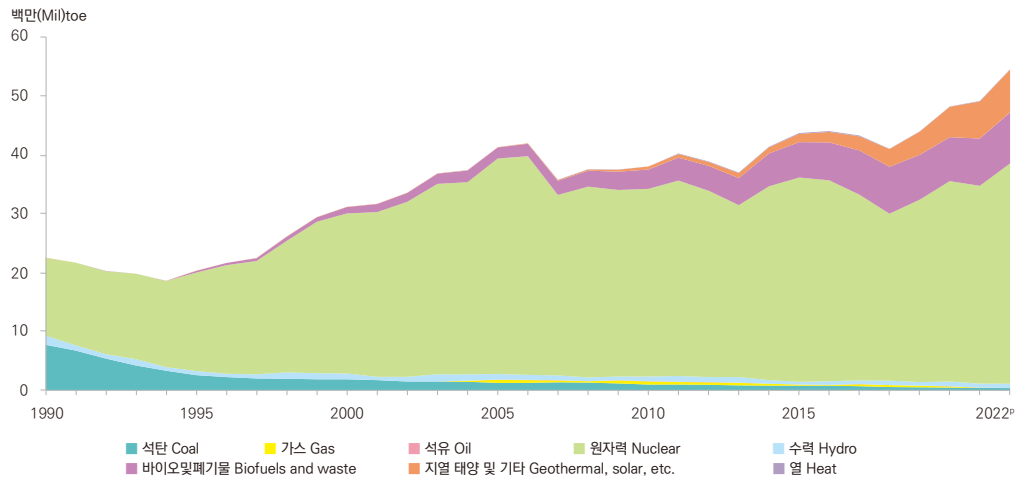


〈월별 Monthly〉

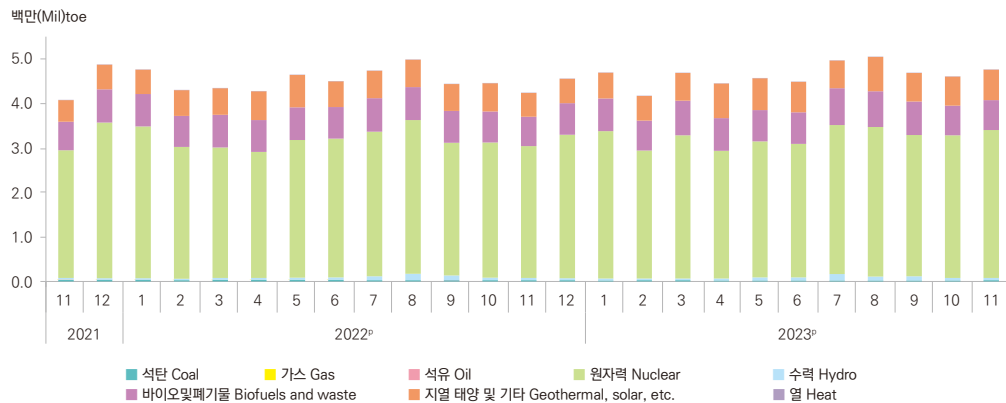


## ● 에너지원별 생산 Energy Production by Source

〈1990~2022<sup>o</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		49,234	425	55	5	33,657	651	8,053	6,320	68
2022 <sup>p</sup>		54,606	386	-	2	37,500	755	8,597	7,292	75
2021	11	4,108	38	3	0	2,890	38	646	486	7
	12	4,914	36	2	0	3,521	38	749	562	6
2022 <sup>p</sup>	1	4,800	34	-	1	3,430	40	736	550	8
	2	4,334	28	-	-	2,980	36	700	585	5
	3	4,378	36	-	-	2,954	45	739	598	6
	4	4,310	36	-	-	2,851	44	723	650	6
	5	4,677	34	-	-	3,112	52	741	732	6
	6	4,537	33	-	-	3,137	60	714	587	6
	7	4,775	32	-	-	3,271	85	758	624	6
	8	5,024	29	-	-	3,474	148	745	622	7
	9	4,475	29	-	1	3,002	104	720	613	6
	10	4,488	30	-	-	3,063	54	700	636	5
	11	4,274	32	-	-	2,983	45	666	541	5
	12	4,595	32	-	-	3,244	42	715	555	7
2023 <sup>p</sup>	1	4,732	26	-	-	3,335	44	735	586	8
	2	4,201	30	-	-	2,898	36	673	559	5
	3	4,726	31	-	-	3,237	39	784	628	6
	4	4,486	26	-	-	2,890	41	736	786	6
	5	4,603	26	-	-	3,080	63	711	716	6
	6	4,525	26	-	-	3,018	68	715	692	6
	7	5,004	24	-	-	3,370	145	832	627	6
	8	5,086	21	-	-	3,381	90	809	777	7
	9	4,722	22	-	-	3,193	97	759	645	6
	10	4,642	22	-	-	3,224	61	675	656	5
	11	4,798	29	-	-	3,348	49	676	693	5
2022 <sup>p</sup>	1-11	50,072	354	-	2	34,256	713	7,942	6,737	68
2023 <sup>p</sup>	1-11	51,525	282	-	-	34,973	733	8,104	7,366	66

1. 무연탄

2. 동해-1 가스전 생산량(2021년 12월 31일 생산 종료)

3. 원유 및 정제원료

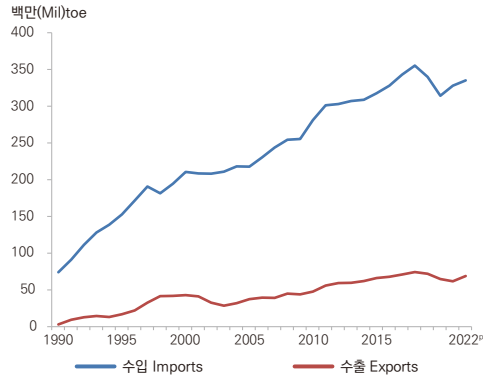
1. Anthracite

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

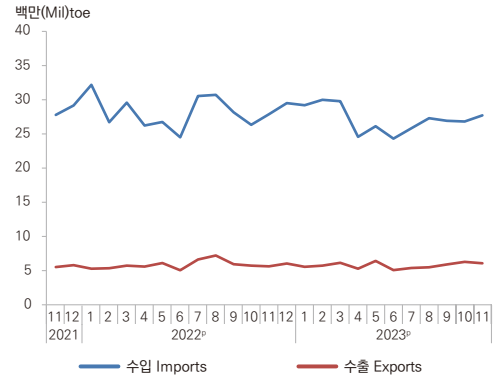
3. Crude oil and refinery feedstocks

## ● 에너지 수출입 Energy Imports and Exports

〈1990~2022<sup>o</sup>〉

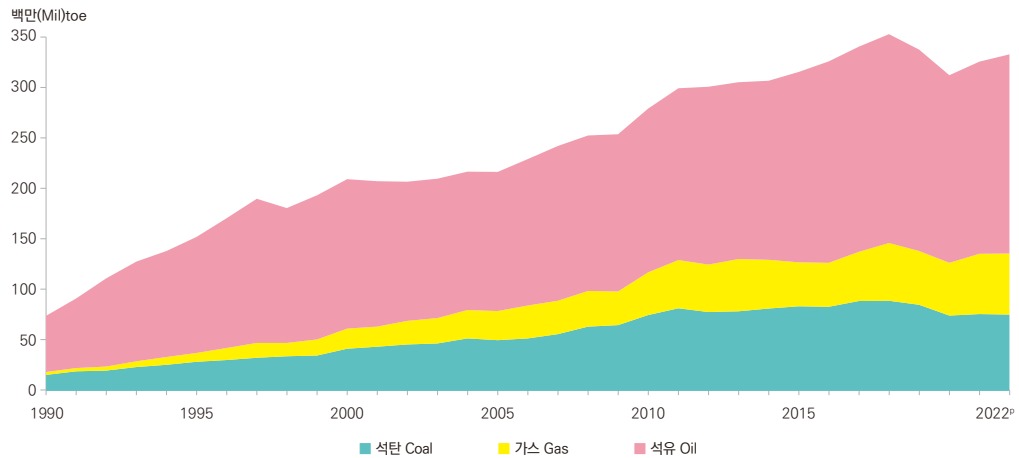


〈월별 Monthly〉

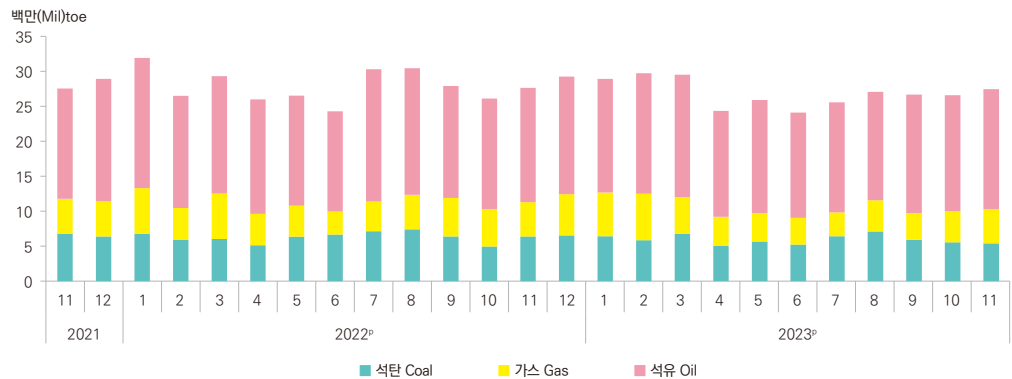


## ● 에너지원별 수입 Energy Imports by Source

〈1990~2022<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		326,861	76,172	59,987	190,702	62,376	217	62,159	264,486
2022 <sup>p</sup>		336,434	75,784	60,683	199,966	69,339	19	69,320	267,095
2021	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	31,934	6,782	6,539	18,613	5,220	19	5,201	26,713
	2	26,508	5,933	4,544	16,030	5,281	0	5,281	21,227
	3	29,336	6,044	6,478	16,814	5,659	0	5,659	23,677
	4	26,009	5,139	4,502	16,368	5,504	0	5,504	20,505
	5	26,539	6,380	4,427	15,733	6,033	0	6,033	20,507
	6	24,313	6,660	3,290	14,362	4,982	0	4,982	19,331
	7	30,310	7,136	4,252	18,922	6,536	0	6,536	23,773
	8	30,481	7,414	4,955	18,112	7,126	0	7,126	23,355
	9	27,938	6,405	5,516	16,017	5,857	0	5,857	22,081
	10	26,133	4,952	5,361	15,820	5,637	0	5,637	20,496
	11	27,656	6,391	4,927	16,338	5,534	0	5,534	22,122
	12	29,287	6,556	5,893	16,838	5,970	0	5,970	23,317
2023 <sup>p</sup>	1	28,952	6,434	6,265	16,252	5,488	0	5,488	23,464
	2	29,759	5,851	6,655	17,253	5,653	0	5,653	24,106
	3	29,543	6,758	5,276	17,508	6,049	0	6,049	23,493
	4	24,372	5,089	4,121	15,162	5,223	0	5,223	19,149
	5	25,921	5,669	4,061	16,191	6,338	0	6,338	19,583
	6	24,113	5,226	3,832	15,056	5,000	0	5,000	19,113
	7	25,604	6,436	3,419	15,749	5,316	0	5,316	20,288
	8	27,076	7,126	4,457	15,494	5,416	0	5,416	21,660
	9	26,691	5,905	3,817	16,969	5,823	0	5,823	20,867
	10	26,599	5,545	4,439	16,614	6,216	0	6,216	20,383
	11	27,490	5,417	4,865	17,208	5,981	0	5,981	21,509
2022 <sup>p</sup>	1-11	307,156	69,238	54,790	183,129	63,369	19	63,349	243,787
2023 <sup>p</sup>	1-11	296,119	65,456	51,207	179,457	62,505	0	62,504	233,614

1. 천연가스

2. 원유 및 정제원료, 석유제품

3. 코크스 등 석탄 및 석탄제품

자료: 한국무역협회, 한국석유공사-PEDSIS

1. Natural gas

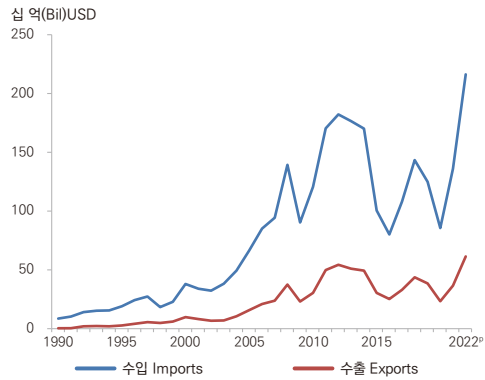
2. Crude oil, refinery feedstocks and petroleum products

3. Coal and coal products including coke oven coke

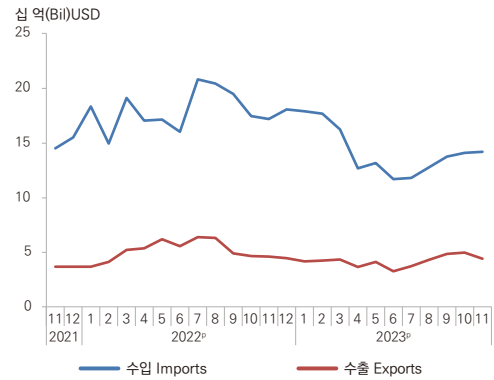
Source: Korea International Trade Association, Korea National Oil Corporation-PEDSIS

## ● 에너지 수출입액 Energy Import and Export Values

〈1990~2022<sup>p</sup>〉

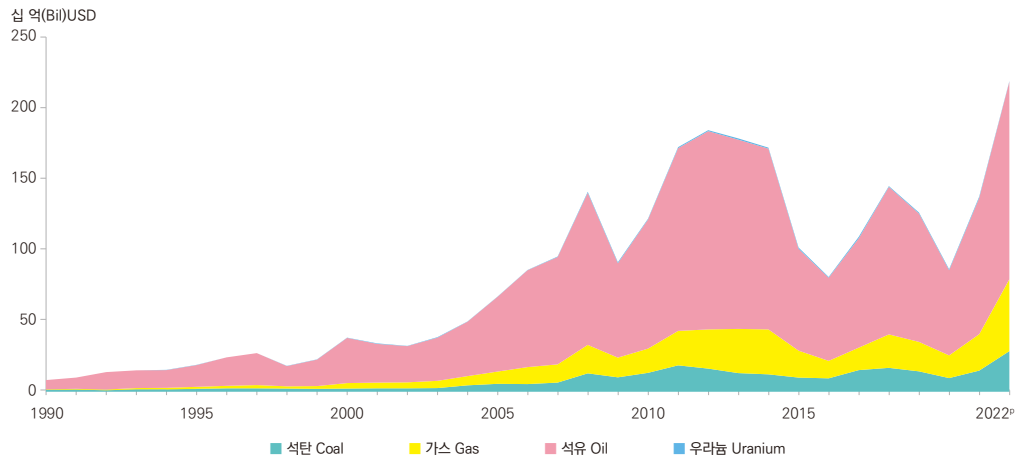


〈월별 Monthly〉

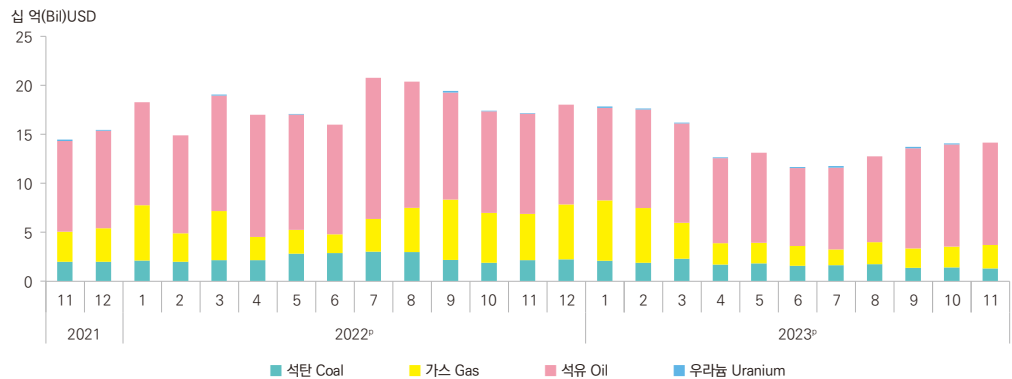


## ● 에너지원별 수입액 Import Values by Energy Source

〈1990~2022<sup>p</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	-	12
1995		18,670	2,108	1,275	15,265	22	2,314	1	2,313	14
2000		37,622	2,186	3,882	31,416	138	9,381	0	9,381	23
2001		33,652	2,347	3,990	27,097	218	7,784	0	7,783	24
2002		31,997	2,475	4,120	25,140	262	6,455	0	6,454	21
2003		37,982	2,552	5,082	30,104	243	6,654	0	6,653	21
2004		49,075	4,438	6,552	37,770	315	10,175	2	10,173	22
2005		66,238	5,443	8,646	51,883	265	15,366	2	15,364	25
2006		84,905	5,318	11,925	67,352	311	20,603	1	20,602	27
2007		94,306	6,445	12,653	74,762	446	23,482	1	23,481	26
2008		139,288	12,800	19,806	106,015	667	37,184	8	37,177	32
2009		90,259	9,995	13,875	65,706	684	22,721	1	22,720	28
2010		120,478	13,131	17,006	89,777	564	30,196	2	30,194	28
2011		170,497	18,477	23,859	127,413	748	49,608	24	49,584	33
2012		182,252	16,069	27,364	138,183	635	54,045	6	54,039	35
2013		176,561	13,074	30,645	131,866	976	50,758	16	50,742	34
2014		170,117	12,114	31,403	125,912	688	49,102	10	49,091	32
2015		100,440	9,961	18,779	70,883	817	30,206	4	30,201	23
2016		79,953	9,310	12,170	57,937	536	24,807	1	24,806	20
2017		107,921	15,179	15,616	76,185	941	32,676	23	32,654	23
2018		143,285	16,703	23,189	102,856	538	43,367	21	43,346	27
2019		124,777	14,209	20,567	89,295	707	38,271	4	38,267	25
2020		85,444	9,596	15,716	59,406	725	22,958	35	22,922	18
2021		135,935	14,699	25,453	95,039	744	36,212	124	36,088	22
2022 <sup>p</sup>		216,409	28,332	50,022	137,603	451	61,172	15	61,158	30
2021	11	14,519	1,965	3,098	9,303	153	3,660	0	3,660	25
	12	15,519	1,967	3,441	10,026	84	3,661	0	3,661	25
2022 <sup>p</sup>	1	18,361	2,090	5,690	10,581	-	3,647	14	3,633	30
	2	14,959	1,970	2,932	10,057	0	4,098	0	4,098	28
	3	19,148	2,138	5,035	11,870	106	5,188	0	5,188	30
	4	17,074	2,133	2,392	12,549	-	5,342	0	5,341	28
	5	17,157	2,794	2,448	11,846	69	6,174	0	6,174	27
	6	16,052	2,863	1,917	11,273	-	5,550	0	5,550	27
	7	20,859	3,005	3,357	14,498	-	6,370	0	6,370	32
	8	20,464	2,959	4,541	12,964	-	6,294	0	6,294	31
	9	19,516	2,148	6,201	11,000	168	4,875	0	4,875	32
	10	17,479	1,876	5,112	10,436	55	4,628	0	4,628	30
	11	17,229	2,143	4,743	10,290	54	4,572	0	4,572	29
	12	18,110	2,213	5,656	10,241	-	4,434	0	4,434	30
2023 <sup>p</sup>	1	17,921	2,074	6,206	9,481	159	4,150	0	4,150	30
	2	17,706	1,872	5,611	10,115	108	4,228	0	4,228	32
	3	16,264	2,271	3,706	10,193	94	4,325	0	4,324	27
	4	12,699	1,678	2,202	8,727	92	3,637	0	3,637	24
	5	13,175	1,812	2,110	9,253	-	4,092	0	4,092	24
	6	11,696	1,562	2,014	8,005	114	3,235	0	3,235	22
	7	11,807	1,613	1,623	8,405	166	3,700	0	3,700	24
	8	12,790	1,724	2,249	8,818	-	4,285	0	4,285	25
	9	13,770	1,352	1,979	10,294	145	4,828	0	4,828	27
	10	14,120	1,387	2,133	10,490	110	4,945	0	4,945	26
	11	14,214	1,285	2,396	10,533	-	4,389	0	4,389	27
2022 <sup>p</sup>	1-11	198,299	26,119	44,366	127,362	451	56,738	15	56,723	29
2023 <sup>p</sup>	1-11	156,163	18,630	32,229	104,316	988	45,814	0	45,813	26

1. 천연가스

2. 원유 및 정제원료, 석유제품

3. 코크스 등 석탄 및 석탄제품

자료: 한국무역협회, 한국석유공사-PEDSIS

1. Natural gas

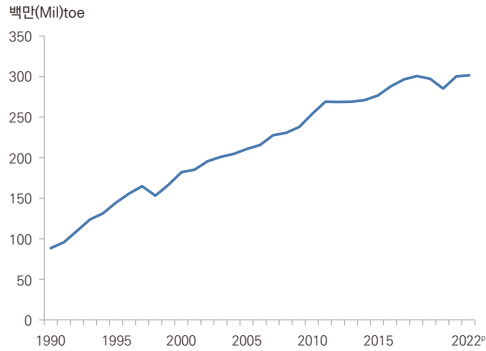
2. Crude oil, refinery feedstocks and petroleum products

3. Coal and coal products including coke oven coke

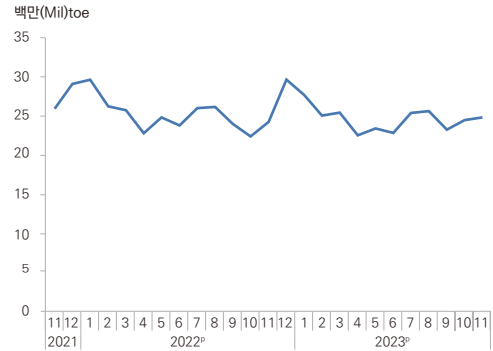
Source: Korea International Trade Association, Korea National Oil Corporation-PEDSIS

## ● 일차에너지 공급 Total Primary Energy Supply

〈1990~2022<sup>o</sup>〉

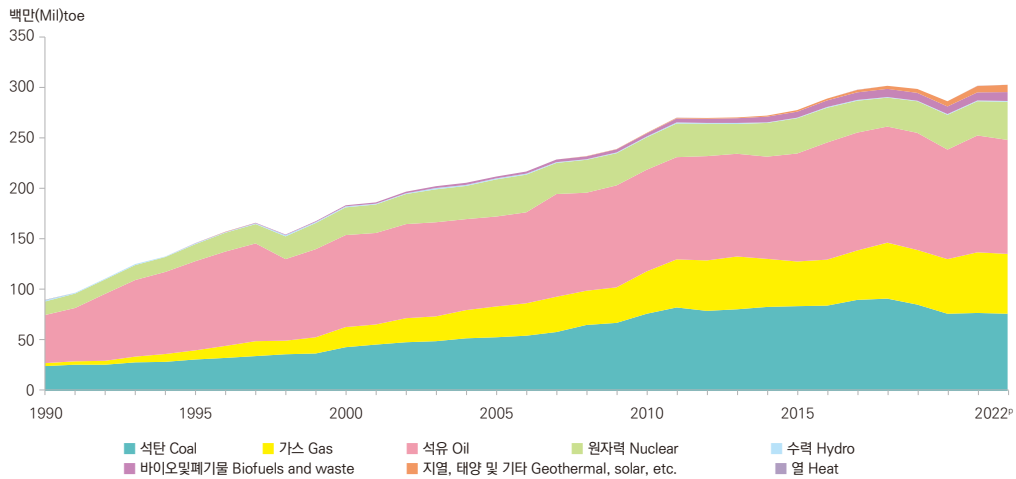


〈월별 Monthly〉

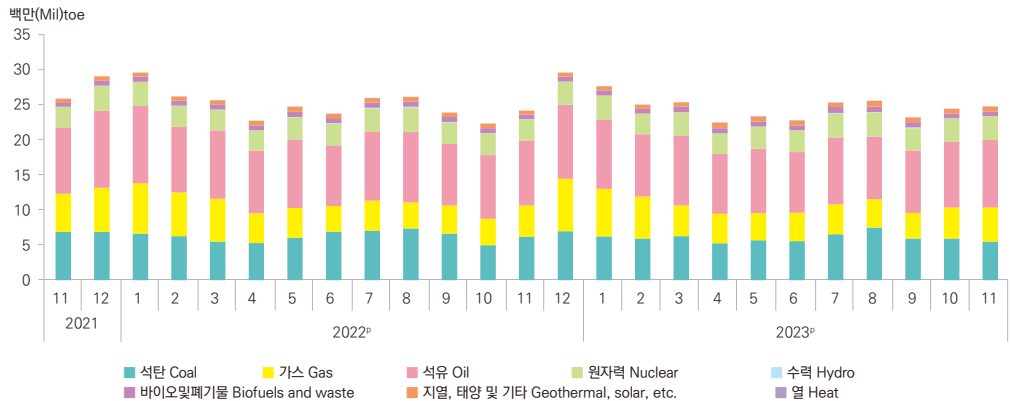


## ● 에너지원별 일차에너지 공급 Total Primary Energy Supply by Source

〈1990~2022<sup>o</sup>〉



〈월별 Monthly〉



## 1.5 일차에너지공급

## Total Primary Energy Supply

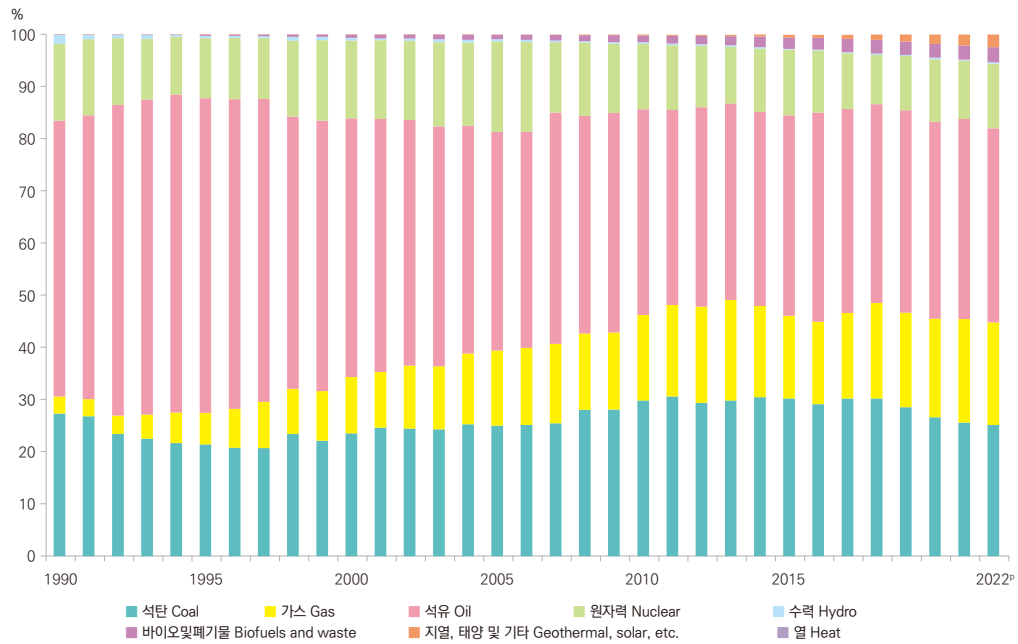
		합계 Total	석탄 Coal	가스 Gas	석유 Oil	원자력 Nuclear	수력 Hydro	바이오및폐기물 Biofuels and waste	지열,태양및기타 Geothermal, solar, etc.	열 <sup>1</sup> Heat <sup>1</sup>
		1,000 toe								
1990		89,680	24,523	2,958	47,387	13,222	1,571		10	3
1995		145,618	31,173	8,852	87,804	16,757	690	315	23	3
2000		183,078	43,143	19,743	90,804	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		216,261	54,361	32,024	89,590	37,187	867	2,108	107	17
2007		228,129	58,149	34,665	101,219	30,731	781	2,433	137	14
2008		231,298	64,925	33,792	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		269,199	82,386	47,318	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		297,612	85,048	53,875	115,408	31,079	594	7,601	3,940	66
2020		285,512	75,983	53,915	107,970	34,119	826	7,479	5,146	73
2021		300,515	76,968	59,594	115,204	33,657	651	8,052	6,320	68
2022 <sup>p</sup>		303,929	75,859	59,176	114,675	37,500	755	8,597	7,292	75
2021	11	25,815	6,873	5,412	9,466	2,890	38	644	486	7
	12	28,984	6,886	6,263	10,955	3,521	38	752	562	6
2022 <sup>p</sup>	1	29,524	6,639	7,155	10,966	3,430	40	736	550	8
	2	26,119	6,259	6,208	9,347	2,980	36	699	585	5
	3	25,610	5,494	6,103	9,673	2,954	45	737	598	6
	4	22,677	5,276	4,241	8,892	2,851	44	717	650	6
	5	24,687	6,058	4,206	9,777	3,112	52	745	732	6
	6	23,661	6,911	3,649	8,597	3,137	60	715	587	6
	7	25,898	7,057	4,240	9,861	3,271	85	754	624	6
	8	26,054	7,377	3,703	9,977	3,474	148	748	622	7
	9	23,840	6,640	3,984	8,771	3,002	104	719	613	6
	10	22,264	4,989	3,745	9,070	3,063	54	703	636	5
	11	24,107	6,188	4,458	9,222	2,983	45	664	541	5
	12	29,532	6,981	7,461	10,524	3,244	42	719	555	7
2023 <sup>p</sup>	1	27,581	6,221	6,784	9,872	3,335	44	733	586	8
	2	24,943	5,929	5,952	8,891	2,898	36	672	559	5
	3	25,310	6,277	4,362	9,976	3,237	39	784	628	6
	4	22,415	5,241	4,193	8,522	2,890	41	735	786	6
	5	23,294	5,668	3,881	9,170	3,080	63	710	716	6
	6	22,721	5,573	4,013	8,634	3,018	68	716	692	6
	7	25,271	6,537	4,260	9,492	3,370	145	833	627	6
	8	25,498	7,474	4,039	8,925	3,381	90	805	777	7
	9	23,140	5,911	3,670	8,857	3,193	97	760	645	6
	10	24,361	5,917	4,421	9,398	3,224	61	680	656	5
	11	24,709	5,502	4,830	9,608	3,348	49	675	693	5
2022 <sup>p</sup>	1-11	274,444	68,888	51,693	104,151	34,256	713	7,938	6,737	68
2023 <sup>p</sup>	1-11	269,244	66,249	50,406	101,346	34,973	733	8,104	7,366	66

1. 지역난방이 아닌 상용자가업체 열생산량을 의미

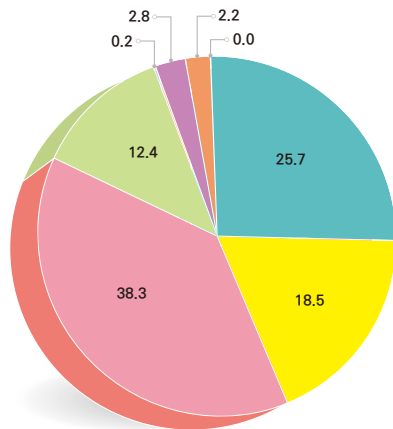
1. Heat production by autoproducer plants

### ● 일차에너지공급 원별 구성비 Shares of Energy Source in Total Primary Energy Supply (%)

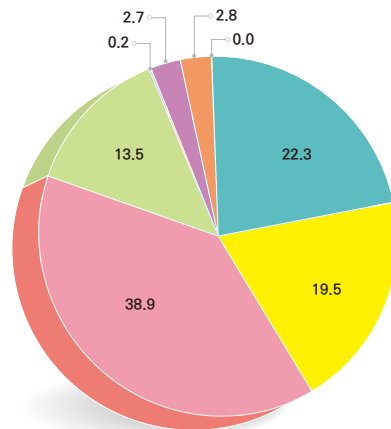
〈1990~2022<sup>p</sup>〉



### ● 2022년 11월 November 2022<sup>p</sup>(%)



### ● 2023년 11월 November 2023<sup>p</sup>(%)





## 1.6 일차에너지공급 원별 구성비

## Shares of Energy Source in Total Primary Energy Supply

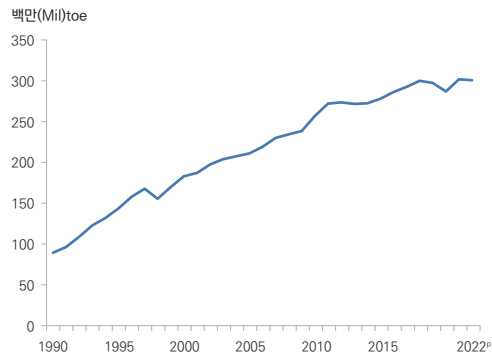
		합계	석탄	가스	석유	원자력	수력	바이오및폐기물	지열,태양및기타	열 <sup>1</sup>
		Total	Coal	Gas	Oil	Nuclear	Hydro	Biofuels and waste	Geothermal, solar, etc.	Heat <sup>1</sup>
		%								
1990		100.0	27.3	3.3	52.8	14.7	1.8	0.0	0.0	0.0
1995		100.0	21.4	6.1	60.3	11.5	0.5	0.2	0.0	0.0
2000		100.0	23.6	10.8	49.6	14.9	0.5	0.6	0.0	0.0
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	12.0	0.3	2.6	1.8	0.0
2021		100.0	25.6	19.8	38.3	11.2	0.2	2.7	2.1	0.0
2022 <sup>p</sup>		100.0	25.0	19.5	37.7	12.3	0.2	2.8	2.4	0.0
2021	11	100.0	26.6	21.0	36.7	11.2	0.1	2.5	1.9	0.0
	12	100.0	23.8	21.6	37.8	12.1	0.1	2.6	1.9	0.0
2022 <sup>p</sup>	1	100.0	22.5	24.2	37.1	11.6	0.1	2.5	1.9	0.0
	2	100.0	24.0	23.8	35.8	11.4	0.1	2.7	2.2	0.0
	3	100.0	21.5	23.8	37.8	11.5	0.2	2.9	2.3	0.0
	4	100.0	23.3	18.7	39.2	12.6	0.2	3.2	2.9	0.0
	5	100.0	24.5	17.0	39.6	12.6	0.2	3.0	3.0	0.0
	6	100.0	29.2	15.4	36.3	13.3	0.3	3.0	2.5	0.0
	7	100.0	27.3	16.4	38.1	12.6	0.3	2.9	2.4	0.0
	8	100.0	28.3	14.2	38.3	13.3	0.6	2.9	2.4	0.0
	9	100.0	27.9	16.7	36.8	12.6	0.4	3.0	2.6	0.0
	10	100.0	22.4	16.8	40.7	13.8	0.2	3.2	2.9	0.0
	11	100.0	25.7	18.5	38.3	12.4	0.2	2.8	2.2	0.0
	12	100.0	23.6	25.3	35.6	11.0	0.1	2.4	1.9	0.0
2023 <sup>p</sup>	1	100.0	22.6	24.6	35.8	12.1	0.2	2.7	2.1	0.0
	2	100.0	23.8	23.9	35.6	11.6	0.1	2.7	2.2	0.0
	3	100.0	24.8	17.2	39.4	12.8	0.2	3.1	2.5	0.0
	4	100.0	23.4	18.7	38.0	12.9	0.2	3.3	3.5	0.0
	5	100.0	24.3	16.7	39.4	13.2	0.3	3.0	3.1	0.0
	6	100.0	24.5	17.7	38.0	13.3	0.3	3.2	3.0	0.0
	7	100.0	25.9	16.9	37.6	13.3	0.6	3.3	2.5	0.0
	8	100.0	29.3	15.8	35.0	13.3	0.4	3.2	3.0	0.0
	9	100.0	25.5	15.9	38.3	13.8	0.4	3.3	2.8	0.0
	10	100.0	24.3	18.1	38.6	13.2	0.2	2.8	2.7	0.0
	11	100.0	22.3	19.5	38.9	13.5	0.2	2.7	2.8	0.0
2022 <sup>p</sup>	1-11	100.0	25.1	18.8	37.9	12.5	0.3	2.9	2.5	0.0
2023 <sup>p</sup>	1-11	100.0	24.6	18.7	37.6	13.0	0.3	3.0	2.7	0.0

1. 상용자가업체 열생산량을 의미

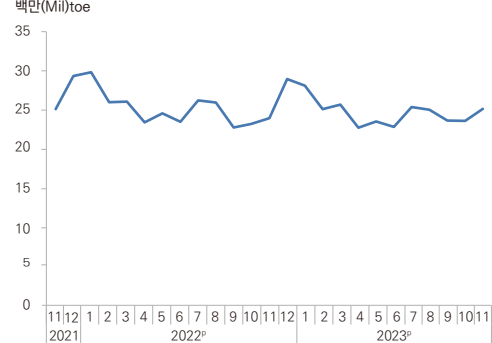
1. Heat production by autoproducer plants

## ● 일차에너지소비 Total Primary Energy Consumption

〈1990~2022<sup>p</sup>〉

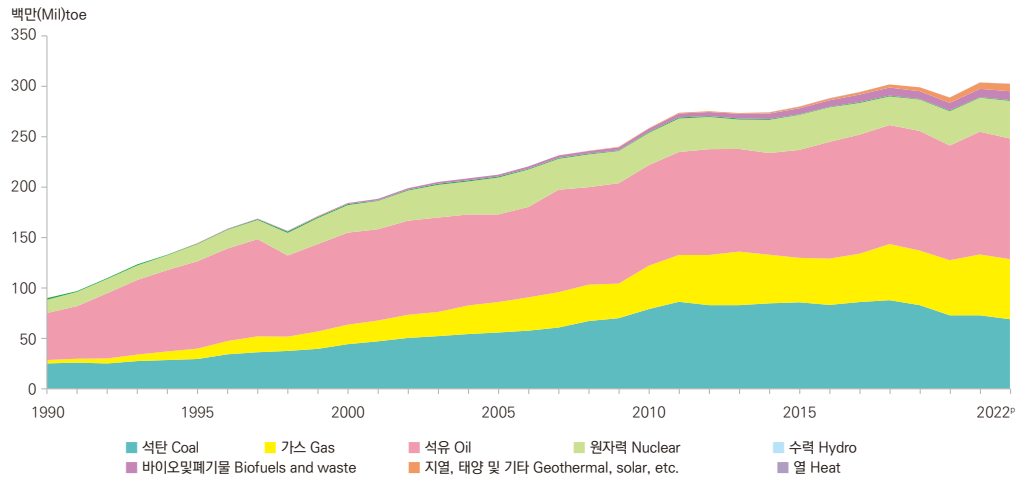


〈월별 Monthly〉

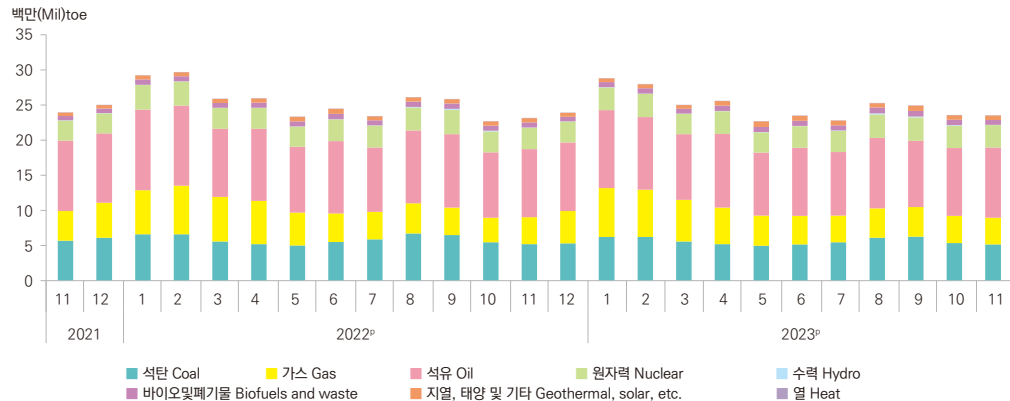


## ● 에너지원별 일차에너지소비 Total Primary Energy Consumption by Source

〈1990~2022<sup>p</sup>〉



〈월별 Monthly〉



## 1.7 일차에너지소비

## Total Primary Energy Consumption

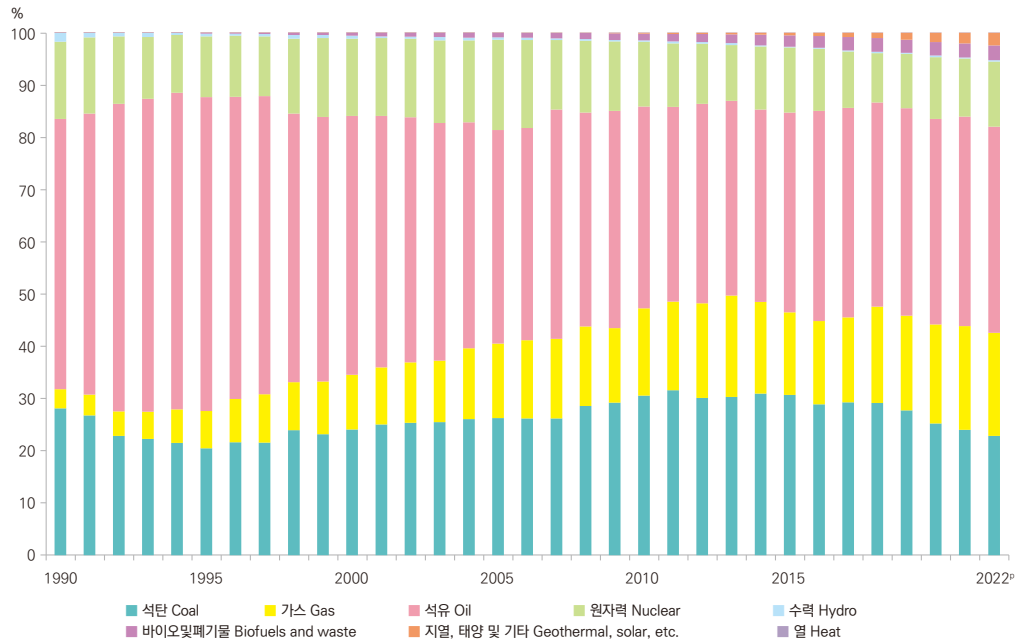
		합계 Total	석탄 Coal	가스 Gas	석유 Oil	원자력 Nuclear	수력 Hydro	바이오및폐기물 Biofuels and waste	지열,태양및기타 Geothermal, solar, etc.	열 <sup>1</sup> Heat <sup>1</sup>
		1,000 toe								
1990		89,775	25,217	3,280	46,466	13,222	1,571		10	3
1995		144,201	29,513	10,236	86,664	16,757	690	315	23	3
2000		183,950	44,204	19,322	91,036	27,241	1,002	1,088	47	10
2001		188,021	47,045	20,482	90,458	28,033	582	1,366	42	13
2002		198,596	50,388	22,947	93,107	29,776	808	1,516	40	14
2003		204,898	52,187	24,055	93,197	32,418	1,226	1,754	41	20
2004		208,533	54,318	28,224	90,160	32,679	1,082	1,999	52	19
2005		212,129	55,669	30,194	86,695	36,695	919	1,873	73	12
2006		220,287	57,636	33,026	89,340	37,187	867	2,108	107	17
2007		231,105	60,558	35,142	101,311	30,731	781	2,430	137	14
2008		235,702	67,232	35,944	96,455	32,456	660	2,718	199	38
2009		239,526	69,855	34,205	99,585	31,771	616	3,103	343	49
2010		258,112	78,901	43,055	99,622	31,948	797	3,274	499	16
2011		273,296	86,283	46,261	101,879	33,265	989	3,881	602	135
2012		274,889	82,745	49,819	104,778	31,719	838	4,245	622	124
2013		273,137	82,720	53,059	101,612	29,283	906	4,631	811	113
2014		273,712	84,654	48,009	100,763	33,002	581	5,585	1,051	68
2015		279,328	85,616	44,145	106,768	34,765	454	6,011	1,444	125
2016		287,561	82,998	45,834	115,567	34,181	603	6,447	1,814	117
2017		293,820	85,952	47,717	117,863	31,615	601	7,518	2,426	127
2018		301,324	87,795	55,468	117,828	28,437	719	7,985	3,024	68
2019		298,618	82,825	54,039	118,473	31,079	594	7,601	3,940	66
2020		288,410	72,786	54,578	113,403	34,119	826	7,477	5,146	73
2021		303,183	72,808	60,106	121,523	33,657	651	8,051	6,320	68
2022 <sup>p</sup>		304,492	69,069	59,530	121,677	37,500	755	8,597	7,292	75
2021	11	25,110	6,102	5,027	9,916	2,890	38	646	486	7
	12	29,339	6,596	6,317	11,551	3,521	38	748	562	6
2022 <sup>p</sup>	1	29,806	6,594	6,977	11,471	3,430	40	736	550	8
	2	26,007	5,583	6,352	9,767	2,980	36	700	585	5
	3	26,058	5,190	6,191	10,335	2,954	45	739	598	6
	4	23,421	4,979	4,700	9,468	2,851	44	723	650	6
	5	24,569	5,507	4,087	10,332	3,112	52	741	732	6
	6	23,511	5,856	3,946	9,204	3,137	60	714	587	6
	7	26,222	6,732	4,318	10,429	3,271	85	758	624	6
	8	25,950	6,485	3,924	10,545	3,474	148	745	622	7
	9	22,770	5,450	3,504	9,371	3,002	104	720	613	6
	10	23,250	5,187	3,871	9,734	3,063	54	700	636	5
	11	23,988	5,282	4,632	9,832	2,983	45	666	541	5
	12	28,953	6,235	6,968	11,188	3,244	42	715	555	7
2023 <sup>p</sup>	1	28,092	6,229	6,774	10,383	3,335	44	735	586	8
	2	25,121	5,554	5,987	9,408	2,898	36	673	559	5
	3	25,677	5,176	5,230	10,576	3,237	39	784	628	6
	4	22,762	4,964	4,327	9,012	2,890	41	736	786	6
	5	23,570	5,143	4,079	9,771	3,080	63	711	716	6
	6	22,881	5,447	3,832	9,103	3,018	68	715	692	6
	7	25,379	6,102	4,201	10,095	3,370	145	832	627	6
	8	25,037	6,242	4,243	9,486	3,381	90	809	777	7
	9	23,649	5,339	3,888	9,722	3,193	97	759	645	6
	10	23,628	5,136	3,849	10,023	3,224	61	675	656	5
	11	25,174	5,324	4,824	10,256	3,348	49	676	693	5
2022 <sup>p</sup>	1-11	275,551	62,845	52,502	110,489	34,256	713	7,942	6,737	68
2023 <sup>p</sup>	1-11	270,970	60,656	51,234	107,838	34,973	733	8,104	7,366	66

1. 지역난방이 아닌 상용자가업체 열생산량을 의미

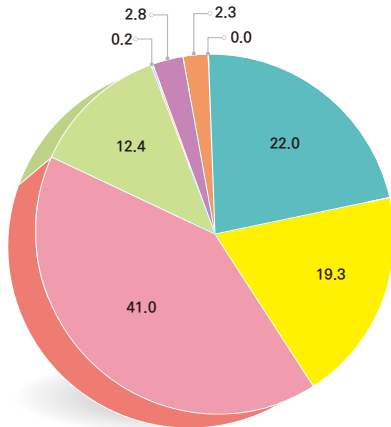
1. Heat production by autoproducer plants

● 일차에너지소비 원별 구성비 Shares of Energy Sources in Total Primary Energy Consumption(%)

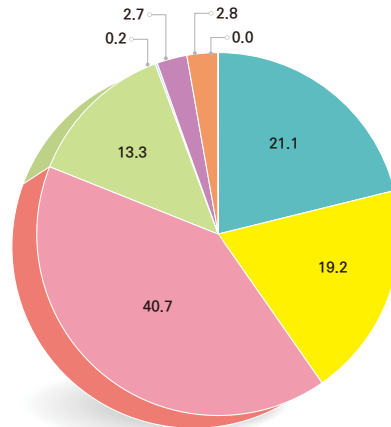
〈1990~2022<sup>p</sup>〉



● 2022년 11월 November 2022<sup>p</sup>(%)



● 2023년 11월 November 2023<sup>p</sup>(%)



## 1.8 일차에너지소비 원별 구성비

## Shares of Energy Sources in Total Primary Energy Consumption

		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	28.1	3.7	51.8	14.7	1.7	0.0	0.0	0.0
1995		100.0	20.5	7.1	60.1	11.6	0.5	0.2	0.0	0.0
2000		100.0	24.0	10.5	49.5	14.8	0.5	0.6	0.0	0.0
2001		100.0	25.0	10.9	48.1	14.9	0.3	0.7	0.0	0.0
2002		100.0	25.4	11.6	46.9	15.0	0.4	0.8	0.0	0.0
2003		100.0	25.5	11.7	45.5	15.8	0.6	0.9	0.0	0.0
2004		100.0	26.0	13.5	43.2	15.7	0.5	1.0	0.0	0.0
2005		100.0	26.2	14.2	40.9	17.3	0.4	0.9	0.0	0.0
2006		100.0	26.2	15.0	40.6	16.9	0.4	1.0	0.0	0.0
2007		100.0	26.2	15.2	43.8	13.3	0.3	1.1	0.1	0.0
2008		100.0	28.5	15.2	40.9	13.8	0.3	1.2	0.1	0.0
2009		100.0	29.2	14.3	41.6	13.3	0.3	1.3	0.1	0.0
2010		100.0	30.6	16.7	38.6	12.4	0.3	1.3	0.2	0.0
2011		100.0	31.6	16.9	37.3	12.2	0.4	1.4	0.2	0.0
2012		100.0	30.1	18.1	38.1	11.5	0.3	1.5	0.2	0.0
2013		100.0	30.3	19.4	37.2	10.7	0.3	1.7	0.3	0.0
2014		100.0	30.9	17.5	36.8	12.1	0.2	2.0	0.4	0.0
2015		100.0	30.7	15.8	38.2	12.4	0.2	2.2	0.5	0.0
2016		100.0	28.9	15.9	40.2	11.9	0.2	2.2	0.6	0.0
2017		100.0	29.3	16.2	40.1	10.8	0.2	2.6	0.8	0.0
2018		100.0	29.1	18.4	39.1	9.4	0.2	2.7	1.0	0.0
2019		100.0	27.7	18.1	39.7	10.4	0.2	2.5	1.3	0.0
2020		100.0	25.2	18.9	39.3	11.8	0.3	2.6	1.8	0.0
2021		100.0	24.0	19.8	40.1	11.1	0.2	2.7	2.1	0.0
2022 <sup>p</sup>		100.0	22.7	19.6	40.0	12.3	0.2	2.8	2.4	0.0
2021	11	100.0	24.3	20.0	39.5	11.5	0.2	2.6	1.9	0.0
	12	100.0	22.5	21.5	39.4	12.0	0.1	2.6	1.9	0.0
2022 <sup>p</sup>	1	100.0	22.1	23.4	38.5	11.5	0.1	2.5	1.8	0.0
	2	100.0	21.5	24.4	37.6	11.5	0.1	2.7	2.2	0.0
	3	100.0	19.9	23.8	39.7	11.3	0.2	2.8	2.3	0.0
	4	100.0	21.3	20.1	40.4	12.2	0.2	3.1	2.8	0.0
	5	100.0	22.4	16.6	42.1	12.7	0.2	3.0	3.0	0.0
	6	100.0	24.9	16.8	39.1	13.3	0.3	3.0	2.5	0.0
	7	100.0	25.7	16.5	39.8	12.5	0.3	2.9	2.4	0.0
	8	100.0	25.0	15.1	40.6	13.4	0.6	2.9	2.4	0.0
	9	100.0	23.9	15.4	41.2	13.2	0.5	3.2	2.7	0.0
	10	100.0	22.3	16.7	41.9	13.2	0.2	3.0	2.7	0.0
	11	100.0	22.0	19.3	41.0	12.4	0.2	2.8	2.3	0.0
	12	100.0	21.5	24.1	38.6	11.2	0.1	2.5	1.9	0.0
2023 <sup>p</sup>	1	100.0	22.2	24.1	37.0	11.9	0.2	2.6	2.1	0.0
	2	100.0	22.1	23.8	37.5	11.5	0.1	2.7	2.2	0.0
	3	100.0	20.2	20.4	41.2	12.6	0.2	3.1	2.4	0.0
	4	100.0	21.8	19.0	39.6	12.7	0.2	3.2	3.5	0.0
	5	100.0	21.8	17.3	41.5	13.1	0.3	3.0	3.0	0.0
	6	100.0	23.8	16.7	39.8	13.2	0.3	3.1	3.0	0.0
	7	100.0	24.0	16.6	39.8	13.3	0.6	3.3	2.5	0.0
	8	100.0	24.9	16.9	37.9	13.5	0.4	3.2	3.1	0.0
	9	100.0	22.6	16.4	41.1	13.5	0.4	3.2	2.7	0.0
	10	100.0	21.7	16.3	42.4	13.6	0.3	2.9	2.8	0.0
	11	100.0	21.1	19.2	40.7	13.3	0.2	2.7	2.8	0.0
2022 <sup>p</sup>	1-11	100.0	22.8	19.1	40.1	12.4	0.3	2.9	2.4	0.0
2023 <sup>p</sup>	1-11	100.0	22.4	18.9	39.8	12.9	0.3	3.0	2.7	0.0

1. 상용자가업체 열생산량을 의미

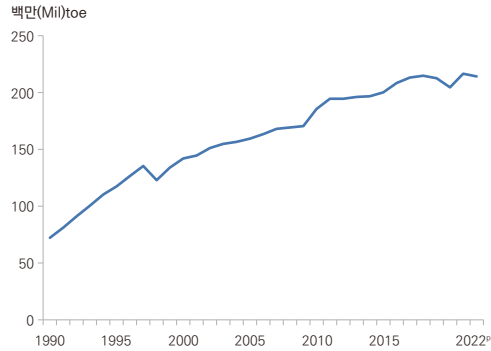
1. Heat production by autoproducer plants



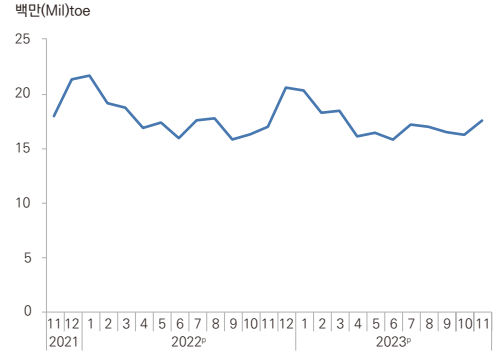


## ● 최종소비 Total Final Consumption

〈1990~2022<sup>o</sup>〉

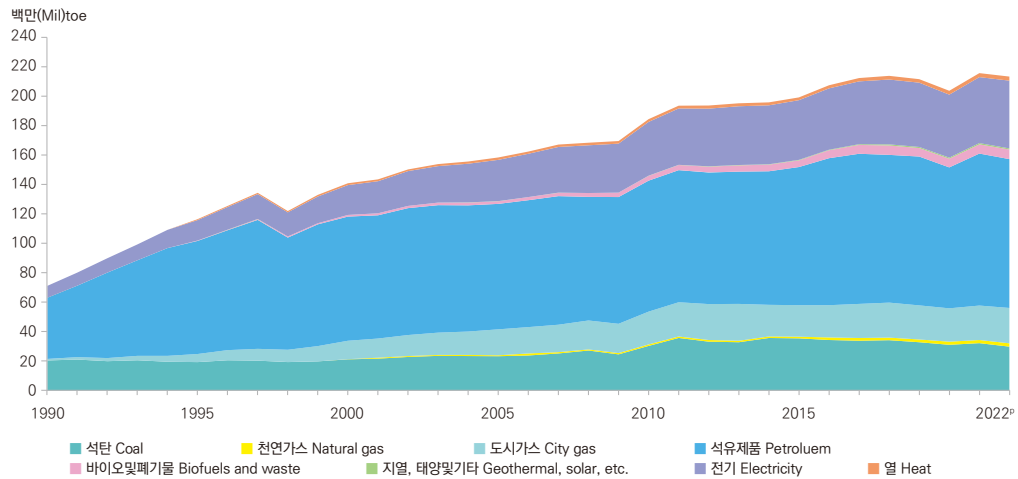


〈월별 Monthly〉

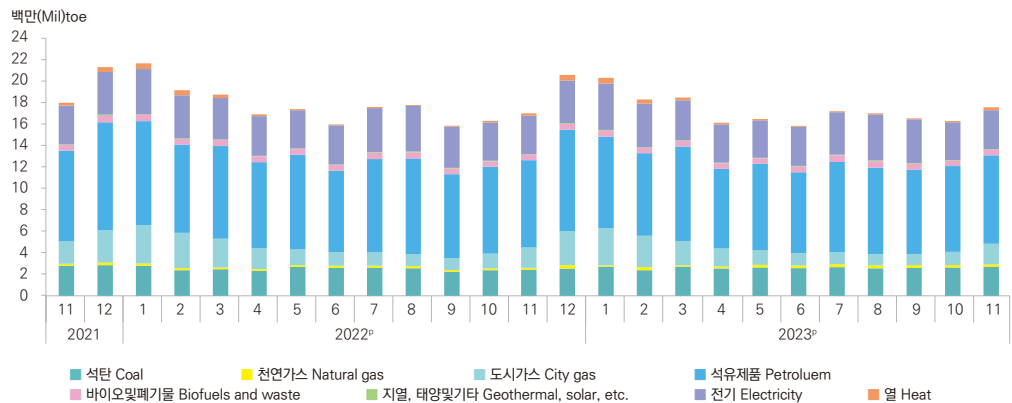


## ● 에너지원별 최종소비 Total Final Consumption by Source

〈1990~2022<sup>o</sup>〉



〈월별 Monthly〉





## 2.1 원별 최종소비

## Total Final Consumption by Source

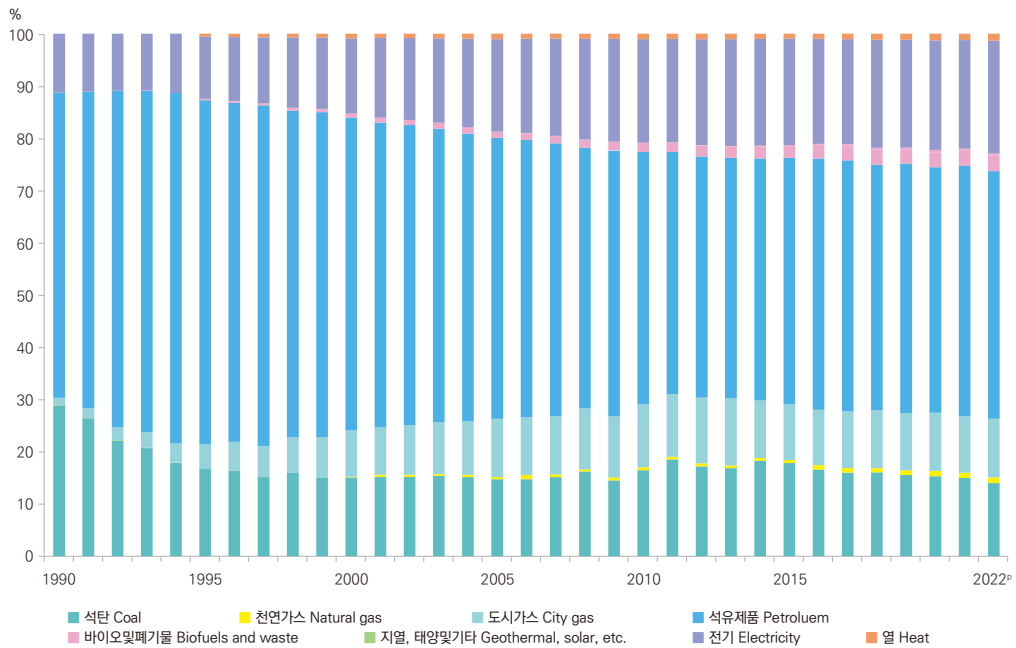
		합계 <sup>1</sup>	석탄	천연가스	도시가스	석유제품	바이오및폐기물	지열,태양및기타	전기	열
		Total <sup>1</sup>	Coal	Natural gas	City gas	Petroleum	Biofuels and waste	Geothermal, solar, etc.	Electricity	Heat
		1,000 toe								
1990		71,150	20,528	5	1,012	41,592	6	10	7,997	-
1995		116,508	19,422	12	5,452	76,815	315	23	13,832	637
2000		140,958	21,217	207	12,510	84,410	1,088	45	20,273	1,208
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	1,720	36	24,796	1,395
2004		155,678	23,511	765	15,912	85,687	1,954	42	26,353	1,449
2005		158,478	23,382	632	17,672	85,208	1,818	42	28,072	1,652
2006		162,528	23,908	1,318	17,963	86,256	2,059	48	29,427	1,549
2007		167,225	25,295	838	18,599	87,401	2,354	53	31,108	1,576
2008		168,469	27,283	714	19,632	84,046	2,596	63	32,467	1,669
2009		169,567	24,578	975	19,810	86,250	2,919	75	33,235	1,715
2010		184,581	30,381	996	22,361	89,023	3,175	93	36,595	1,953
2011		193,726	35,815	999	23,288	89,740	3,488	117	38,325	1,954
2012		193,771	33,336	1,060	24,464	89,418	3,999	146	39,264	2,085
2013		195,292	32,912	1,041	24,972	89,885	4,299	190	39,943	2,049
2014		195,889	35,813	1,018	21,488	90,741	4,531	256	40,103	1,938
2015		199,347	35,569	1,129	21,305	93,977	4,507	322	40,630	1,905
2016		207,553	34,370	1,797	21,928	99,827	5,455	406	41,692	2,075
2017		212,431	33,927	1,832	23,122	102,098	6,031	534	42,586	2,300
2018		214,001	34,297	1,773	23,793	100,411	6,397	643	44,148	2,535
2019		211,733	32,887	1,932	23,094	101,189	5,751	757	43,649	2,471
2020		203,747	31,152	2,119	22,632	95,850	5,826	842	42,733	2,592
2021		215,664	32,251	2,131	23,382	103,310	6,241	900	44,748	2,701
2022 <sup>p</sup>		213,720	29,988	2,227	23,837	101,602	6,414	741	46,039	2,872
2021	11	17,902	2,799	180	2,062	8,431	506	71	3,587	266
	12	21,217	2,846	228	3,010	10,007	593	115	3,956	462
2022 <sup>p</sup>	1	21,568	2,800	212	3,539	9,658	563	69	4,189	537
	2	19,071	2,373	198	3,280	8,170	522	66	3,999	462
	3	18,671	2,465	167	2,673	8,582	557	60	3,844	321
	4	16,831	2,331	150	1,939	7,985	529	58	3,674	165
	5	17,316	2,691	145	1,466	8,786	522	54	3,544	109
	6	15,901	2,602	188	1,263	7,538	541	56	3,618	95
	7	17,509	2,612	180	1,237	8,662	575	66	4,079	97
	8	17,695	2,559	194	1,110	8,880	564	73	4,221	94
	9	15,773	2,235	148	1,106	7,784	539	63	3,813	85
	10	16,234	2,378	153	1,385	8,053	510	55	3,553	148
	11	16,924	2,427	165	1,891	8,091	503	56	3,565	226
	12	20,488	2,525	321	3,143	9,413	548	65	3,940	532
2023 <sup>p</sup>	1	20,220	2,701	127	3,458	8,481	550	65	4,313	525
	2	18,207	2,367	290	2,918	7,659	500	60	4,038	376
	3	18,390	2,696	131	2,254	8,765	528	56	3,708	253
	4	16,058	2,536	184	1,667	7,396	509	54	3,560	152
	5	16,395	2,621	244	1,382	8,013	493	52	3,479	110
	6	15,768	2,572	235	1,146	7,512	518	60	3,632	94
	7	17,126	2,660	271	1,120	8,366	609	68	3,932	100
	8	16,922	2,558	266	1,059	7,998	612	78	4,257	93
	9	16,453	2,583	252	1,042	7,818	555	72	4,050	81
	10	16,212	2,621	236	1,224	7,954	494	59	3,506	118
	11	17,492	2,667	242	1,917	8,204	514	61	3,611	276
2022 <sup>p</sup>	1-11	193,493	27,474	1,900	20,888	92,190	5,927	675	42,099	2,340
2023 <sup>p</sup>	1-11	189,243	28,581	2,479	19,187	88,164	5,881	686	42,087	2,178

1. 수력 포함

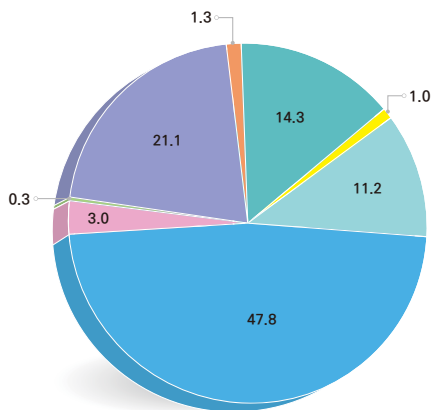
1. Total includes Hydro

### ● 원별 최종소비 구성비 Shares of Energy Source in Total Final Consumption(%)

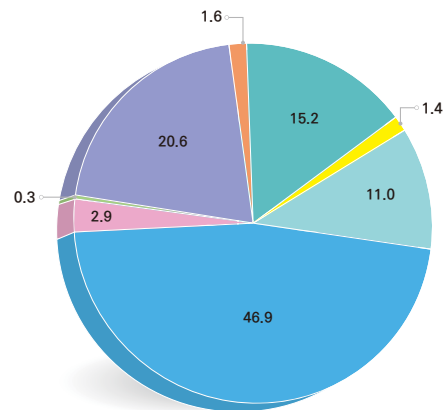
<1990~2022<sup>p</sup>>



### ● 2022년 11월 November 2022<sup>p</sup>(%)



### ● 2023년 11월 November 2023<sup>p</sup>(%)



## 2.2 원별 최종소비 구성비

## Shares of Energy Source in Total Final Consumption

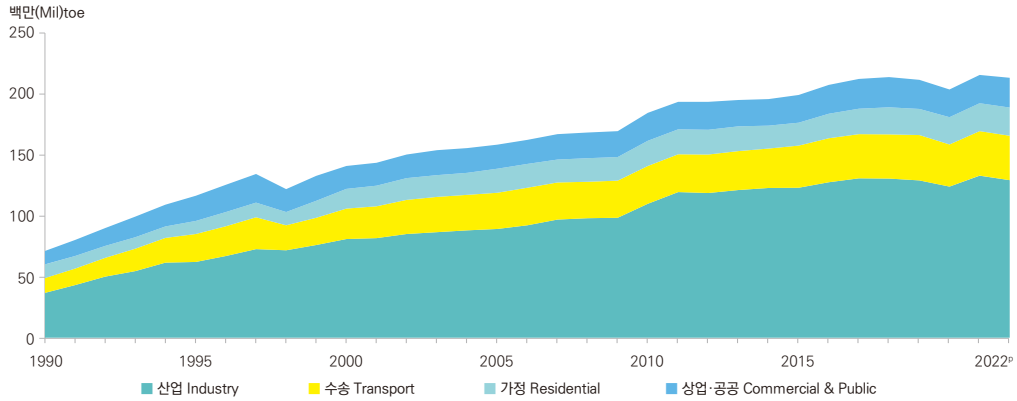
		합계 <sup>1</sup> Total <sup>1</sup>	석탄 Coal	천연가스 Natural gas	도시가스 City gas	석유제품 Petroleum	바이오및폐기물 Biofuels and waste	지열,태양및기타 Geothermal, solar, etc.	전기 Electricity	열 Heat
		%								
1990		100.0	28.9	0.0	1.4	58.5	0.0	0.0	11.2	-
1995		100.0	16.7	0.0	4.7	65.9	0.3	0.0	11.9	0.5
2000		100.0	15.1	0.1	8.9	59.9	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	1.1	0.0	16.1	0.9
2004		100.0	15.1	0.5	10.2	55.0	1.3	0.0	16.9	0.9
2005		100.0	14.8	0.4	11.2	53.8	1.1	0.0	17.7	1.0
2006		100.0	14.7	0.8	11.1	53.1	1.3	0.0	18.1	1.0
2007		100.0	15.1	0.5	11.1	52.3	1.4	0.0	18.6	0.9
2008		100.0	16.2	0.4	11.7	49.9	1.5	0.0	19.3	1.0
2009		100.0	14.5	0.6	11.7	50.9	1.7	0.0	19.6	1.0
2010		100.0	16.5	0.5	12.1	48.2	1.7	0.1	19.8	1.1
2011		100.0	18.5	0.5	12.0	46.3	1.8	0.1	19.8	1.0
2012		100.0	17.2	0.5	12.6	46.1	2.1	0.1	20.3	1.1
2013		100.0	16.9	0.5	12.8	46.0	2.2	0.1	20.5	1.0
2014		100.0	18.3	0.5	11.0	46.3	2.3	0.1	20.5	1.0
2015		100.0	17.8	0.6	10.7	47.1	2.3	0.2	20.4	1.0
2016		100.0	16.6	0.9	10.6	48.1	2.6	0.2	20.1	1.0
2017		100.0	16.0	0.9	10.9	48.1	2.8	0.3	20.0	1.1
2018		100.0	16.0	0.8	11.1	46.9	3.0	0.3	20.6	1.2
2019		100.0	15.5	0.9	10.9	47.8	2.7	0.4	20.6	1.2
2020		100.0	15.3	1.0	11.1	47.0	2.9	0.4	21.0	1.3
2021		100.0	15.0	1.0	10.8	47.9	2.9	0.4	20.7	1.3
2022 <sup>p</sup>		100.0	14.0	1.0	11.2	47.5	3.0	0.3	21.5	1.3
2021	11	100.0	15.6	1.0	11.5	47.1	2.8	0.4	20.0	1.5
	12	100.0	13.4	1.1	14.2	47.2	2.8	0.5	18.6	2.2
2022 <sup>p</sup>	1	100.0	13.0	1.0	16.4	44.8	2.6	0.3	19.4	2.5
	2	100.0	12.4	1.0	17.2	42.8	2.7	0.3	21.0	2.4
	3	100.0	13.2	0.9	14.3	46.0	3.0	0.3	20.6	1.7
	4	100.0	13.8	0.9	11.5	47.4	3.1	0.3	21.8	1.0
	5	100.0	15.5	0.8	8.5	50.7	3.0	0.3	20.5	0.6
	6	100.0	16.4	1.2	7.9	47.4	3.4	0.4	22.8	0.6
	7	100.0	14.9	1.0	7.1	49.5	3.3	0.4	23.3	0.6
	8	100.0	14.5	1.1	6.3	50.2	3.2	0.4	23.9	0.5
	9	100.0	14.2	0.9	7.0	49.4	3.4	0.4	24.2	0.5
	10	100.0	14.6	0.9	8.5	49.6	3.1	0.3	21.9	0.9
	11	100.0	14.3	1.0	11.2	47.8	3.0	0.3	21.1	1.3
	12	100.0	12.3	1.6	15.3	45.9	2.7	0.3	19.2	2.6
2023 <sup>p</sup>	1	100.0	13.4	0.6	17.1	41.9	2.7	0.3	21.3	2.6
	2	100.0	13.0	1.6	16.0	42.1	2.7	0.3	22.2	2.1
	3	100.0	14.7	0.7	12.3	47.7	2.9	0.3	20.2	1.4
	4	100.0	15.8	1.1	10.4	46.1	3.2	0.3	22.2	0.9
	5	100.0	16.0	1.5	8.4	48.9	3.0	0.3	21.2	0.7
	6	100.0	16.3	1.5	7.3	47.6	3.3	0.4	23.0	0.6
	7	100.0	15.5	1.6	6.5	48.8	3.6	0.4	23.0	0.6
	8	100.0	15.1	1.6	6.3	47.3	3.6	0.5	25.2	0.5
	9	100.0	15.7	1.5	6.3	47.5	3.4	0.4	24.6	0.5
	10	100.0	16.2	1.5	7.5	49.1	3.0	0.4	21.6	0.7
	11	100.0	15.2	1.4	11.0	46.9	2.9	0.3	20.6	1.6
2022 <sup>p</sup>	1-11	100.0	14.2	1.0	10.8	47.6	3.1	0.3	21.8	1.2
2023 <sup>p</sup>	1-11	100.0	15.1	1.3	10.1	46.6	3.1	0.4	22.2	1.2

1. 수력 포함

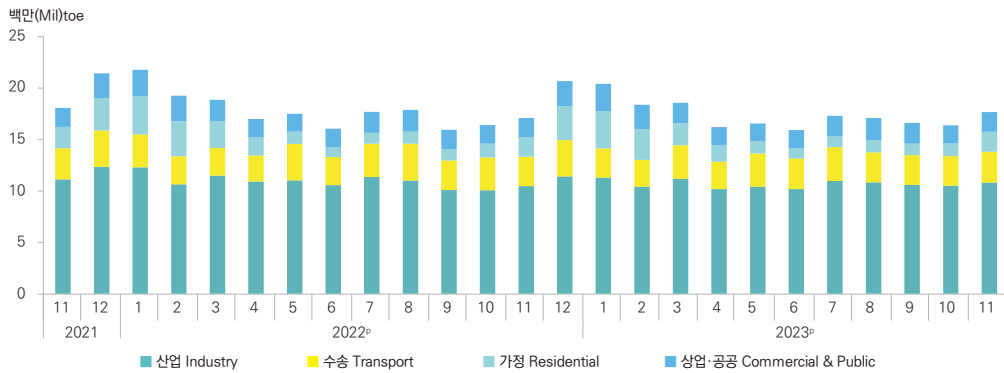
1. Total includes Hydro

## ● 부문별 최종소비 Total Final Consumption by Sector

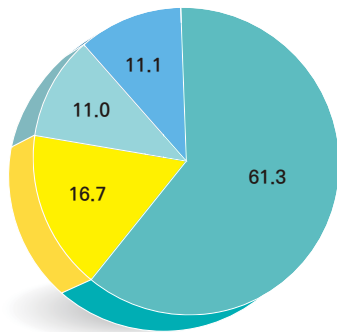
〈1990~2022<sup>p</sup>〉



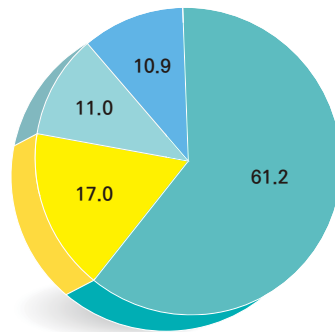
〈월별 Monthly〉



● 2022년 11월 November 2022<sup>p</sup>(%)



● 2023년 11월 November 2023<sup>p</sup>(%)



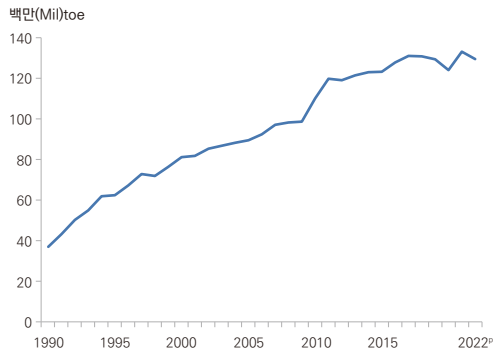
## 2.3 부문별 최종소비

## Total Final Consumption by Sector

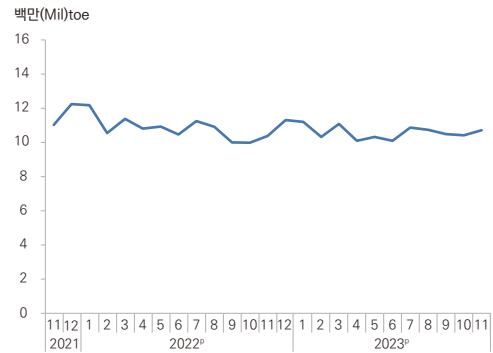
		에너지산업자체소비	합계	산업	수송	가정	상업·공공
		Transformation own use	Total	Industry	Transport	Residential	Commercial & Public
		1,000 toe					
1990		1,529	71,150	36,799	12,141	11,262	10,948
1995		2,389	116,508	62,276	22,920	10,712	20,600
2000		8,171	140,958	80,963	25,007	16,284	18,704
2001		7,967	143,589	81,673	26,226	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		9,133	184,581	109,981	31,010	20,733	22,857
2011		10,180	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		11,829	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	212,431	130,919	36,261	20,918	24,333
2018		13,539	214,001	130,769	36,227	22,114	24,890
2019		14,053	211,733	129,223	37,194	21,466	23,850
2020		13,956	203,747	124,013	34,746	22,356	22,632
2021		13,960	215,664	132,960	36,636	22,940	23,128
2022 <sup>p</sup>		13,764	213,720	129,990	36,291	23,216	24,223
2021	11	1,164	17,902	11,016	3,005	2,040	1,841
	12	1,273	21,217	12,233	3,485	3,126	2,373
2022 <sup>p</sup>	1	1,301	21,568	12,168	3,172	3,703	2,526
	2	1,150	19,071	10,530	2,699	3,392	2,451
	3	1,200	18,671	11,374	2,664	2,544	2,088
	4	1,082	16,831	10,794	2,513	1,743	1,781
	5	1,101	17,316	10,917	3,509	1,184	1,706
	6	1,103	15,901	10,457	2,703	963	1,778
	7	1,165	17,509	11,235	3,219	1,042	2,013
	8	1,196	17,695	10,903	3,553	1,158	2,082
	9	1,088	15,773	9,988	2,847	1,075	1,863
	10	1,080	16,234	9,971	3,140	1,348	1,774
	11	1,065	16,924	10,366	2,825	1,859	1,874
	12	1,233	20,488	11,293	3,505	3,249	2,441
2023 <sup>p</sup>	1	1,106	20,220	11,187	2,802	3,607	2,625
	2	1,028	18,207	10,310	2,574	2,970	2,352
	3	1,047	18,390	11,068	3,228	2,116	1,979
	4	1,013	16,058	10,081	2,647	1,547	1,784
	5	1,127	16,395	10,303	3,192	1,198	1,702
	6	910	15,768	10,078	2,955	956	1,779
	7	1,075	17,126	10,860	3,256	1,018	1,991
	8	1,005	16,922	10,731	2,892	1,159	2,139
	9	1,042	16,453	10,471	2,869	1,106	2,008
	10	1,128	16,212	10,401	2,846	1,221	1,744
	11	1,140	17,492	10,697	2,971	1,923	1,901
2022 <sup>p</sup>	1-11	12,532	193,493	118,705	32,842	20,010	21,936
2023 <sup>p</sup>	1-11	11,622	189,243	116,187	32,230	18,821	22,004

## ● 산업 Industry

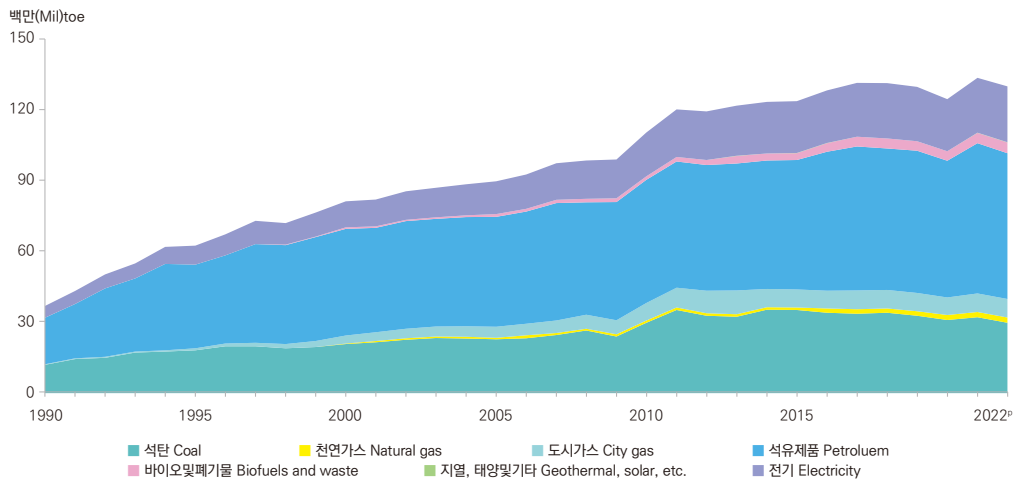
〈1990~2022<sup>p</sup>〉



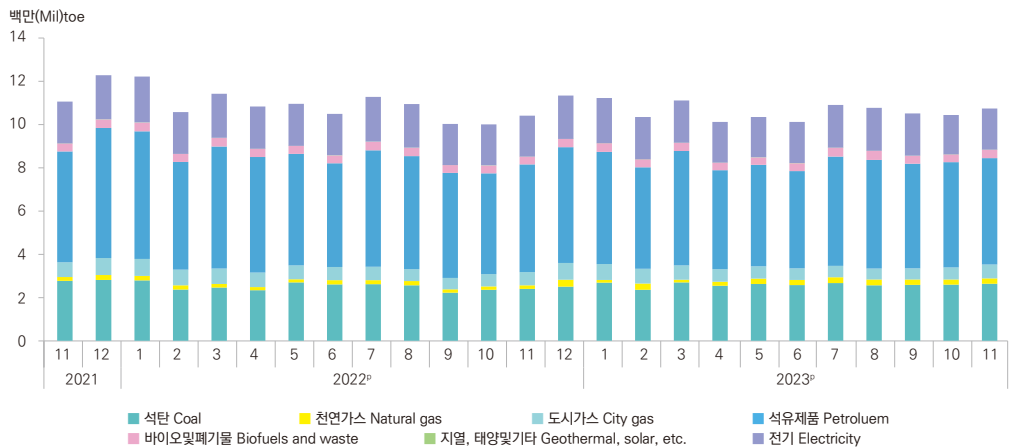
〈월별 Monthly〉



〈1990~2022<sup>p</sup>〉



〈월별 Monthly〉

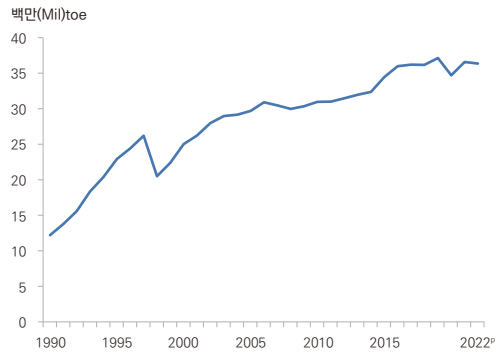


## 2.3.1 산업

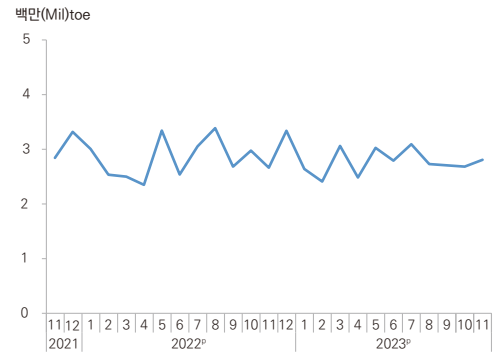
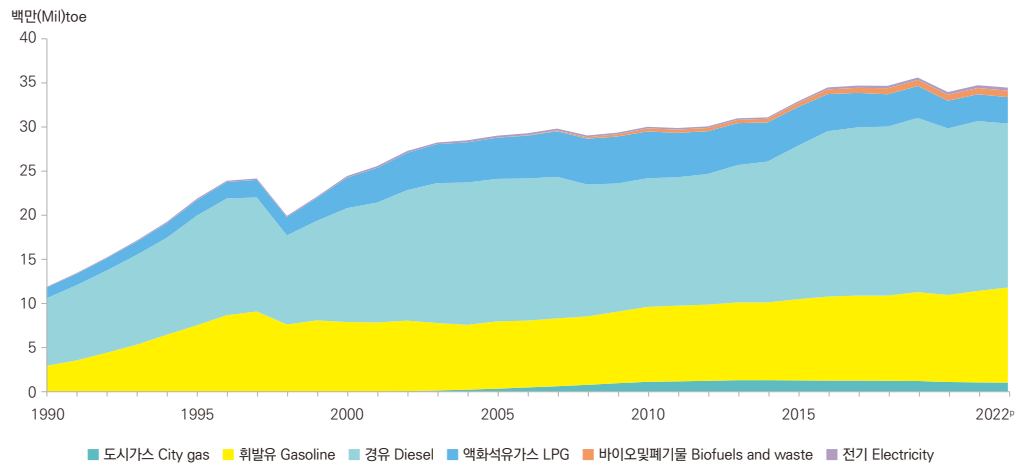
## Industry

		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	0	4,975
1995		62,276	18,091	12	863	35,192	33	0	8,085
2000		80,963	20,746	207	3,308	45,031	624	0	11,047
2001		81,673	21,464	569	3,612	44,082	611	0	11,335
2002		85,167	22,507	623	3,984	45,450	542	0	12,060
2003		86,646	23,293	595	4,177	45,467	633	0	12,480
2004		88,125	23,046	765	4,382	46,044	757	1	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		130,919	33,531	1,832	7,953	60,738	4,121	34	22,710
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		124,013	30,912	2,119	7,345	57,699	3,981	48	21,908
2021		132,960	32,040	2,131	7,855	63,361	4,337	55	23,182
2022 <sup>p</sup>		129,990	29,789	2,227	7,784	62,048	4,511	61	23,570
2021	11	11,016	2,759	180	673	5,113	367	5	1,918
	12	12,233	2,804	228	778	5,996	392	5	2,029
2022 <sup>p</sup>	1	12,168	2,776	212	784	5,879	404	5	2,107
	2	10,530	2,357	198	718	4,964	367	5	1,920
	3	11,374	2,451	167	709	5,624	389	5	2,028
	4	10,794	2,323	150	667	5,329	373	5	1,947
	5	10,917	2,687	145	640	5,133	372	5	1,936
	6	10,457	2,599	188	613	4,774	367	5	1,912
	7	11,235	2,608	180	621	5,361	395	5	2,064
	8	10,903	2,555	194	549	5,210	384	5	2,006
	9	9,988	2,219	148	528	4,835	363	5	1,890
	10	9,971	2,345	153	571	4,642	362	5	1,892
	11	10,366	2,389	165	610	4,959	360	5	1,879
	12	11,293	2,490	321	770	5,337	382	5	1,989
2023 <sup>p</sup>	1	11,187	2,679	127	731	5,161	403	6	2,080
	2	10,310	2,347	290	677	4,674	370	5	1,946
	3	11,068	2,684	131	655	5,273	381	5	1,939
	4	10,081	2,530	184	581	4,563	346	5	1,872
	5	10,303	2,617	244	572	4,675	340	5	1,851
	6	10,078	2,570	235	534	4,482	358	5	1,895
	7	10,860	2,658	271	522	5,031	411	5	1,961
	8	10,731	2,555	266	505	5,008	417	6	1,973
	9	10,471	2,574	252	511	4,818	365	5	1,945
	10	10,401	2,585	236	553	4,857	356	5	1,808
	11	10,697	2,628	242	643	4,904	385	6	1,890
2022 <sup>p</sup>	1-11	118,705	27,309	1,900	7,011	56,711	4,135	56	21,581
2023 <sup>p</sup>	1-11	116,187	28,427	2,479	6,486	53,446	4,132	57	21,160

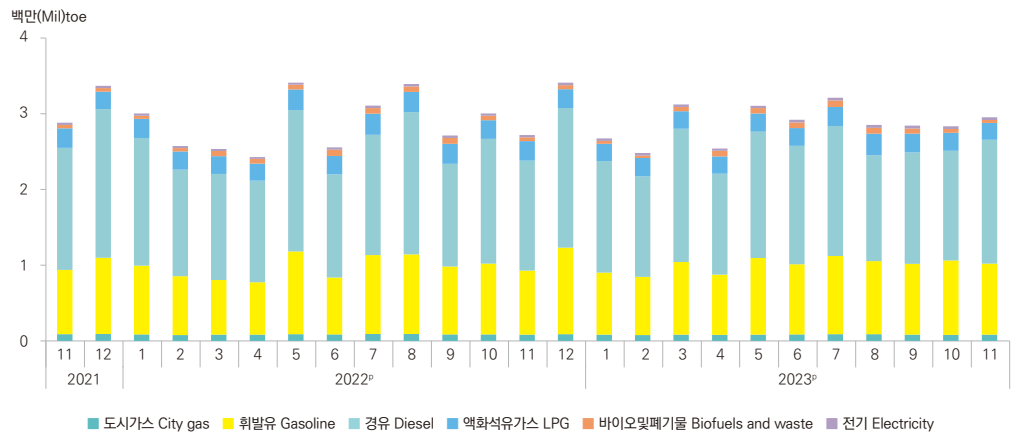
## ● 수송 Transport

〈1990~2022<sup>p</sup>〉

〈월별 Monthly〉

〈1990~2022<sup>p</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		34,746	1,099	32,667	9,858	18,865	3,140	695	285
2021		36,636	1,060	34,554	10,354	19,247	3,033	704	318
2022 <sup>p</sup>		36,291	1,025	34,238	10,714	18,587	2,999	682	346
2021	11	3,005	87	2,847	839	1,592	255	44	27
	12	3,485	91	3,318	995	1,934	230	46	30
2022 <sup>p</sup>	1	3,172	86	3,016	895	1,666	249	40	30
	2	2,699	77	2,551	766	1,388	239	44	27
	3	2,664	84	2,488	711	1,381	234	66	26
	4	2,513	83	2,342	683	1,322	222	62	26
	5	3,509	87	3,331	1,080	1,841	270	64	27
	6	2,703	85	2,508	743	1,345	240	82	28
	7	3,219	92	3,022	1,028	1,568	275	73	31
	8	3,553	92	3,357	1,036	1,856	263	71	33
	9	2,847	85	2,656	885	1,338	262	76	30
	10	3,140	84	2,969	923	1,628	244	58	28
	11	2,825	83	2,664	834	1,434	254	49	30
	12	3,505	87	3,333	1,130	1,818	247	52	31
2023 <sup>p</sup>	1	2,802	81	2,652	810	1,453	228	36	34
	2	2,574	75	2,435	759	1,311	241	32	32
	3	3,228	83	3,058	945	1,738	229	57	30
	4	2,647	80	2,462	785	1,315	225	74	30
	5	3,192	84	3,007	996	1,648	237	69	32
	6	2,955	84	2,763	915	1,546	230	75	33
	7	3,256	87	3,048	1,019	1,696	248	84	36
	8	2,892	88	2,688	952	1,381	280	78	38
	9	2,869	82	2,681	924	1,452	244	68	37
	10	2,846	80	2,681	969	1,431	233	51	34
	11	2,971	81	2,819	928	1,615	220	36	35
2022 <sup>p</sup>	1-11	32,842	938	30,905	9,585	16,768	2,752	685	315
2023 <sup>p</sup>	1-11	32,230	906	30,296	10,003	16,584	2,615	660	369

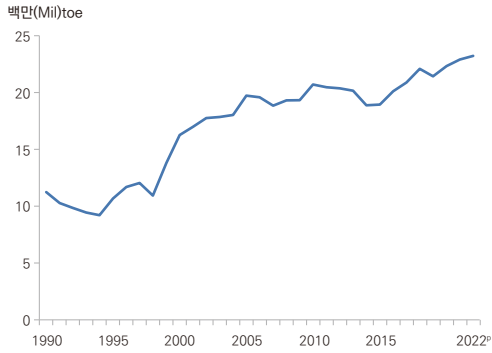
주: 합계에는 항공유, 중유 및 기타 석유제품 포함

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

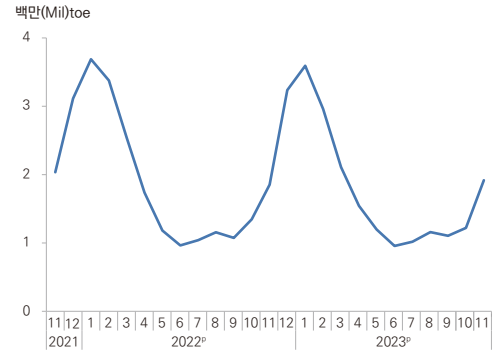
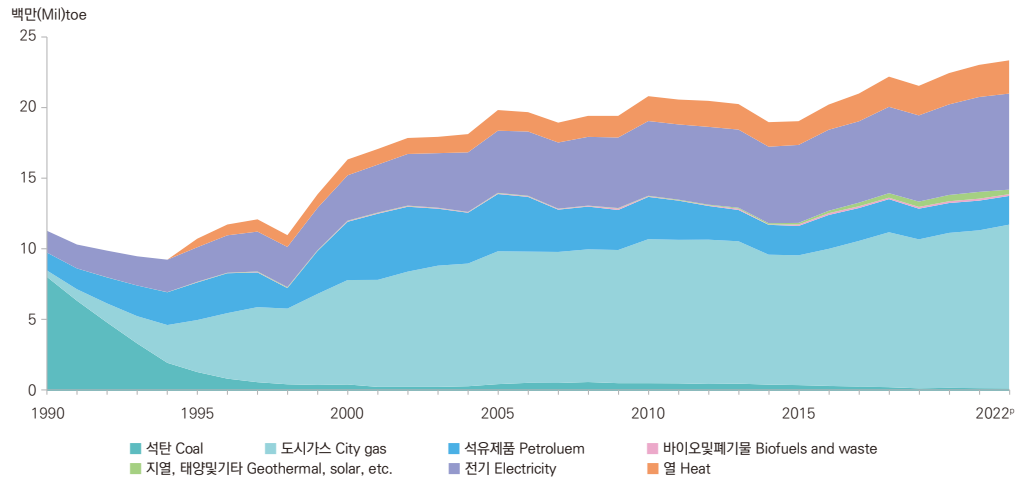
1. 바이오디젤

1. Biodiesel

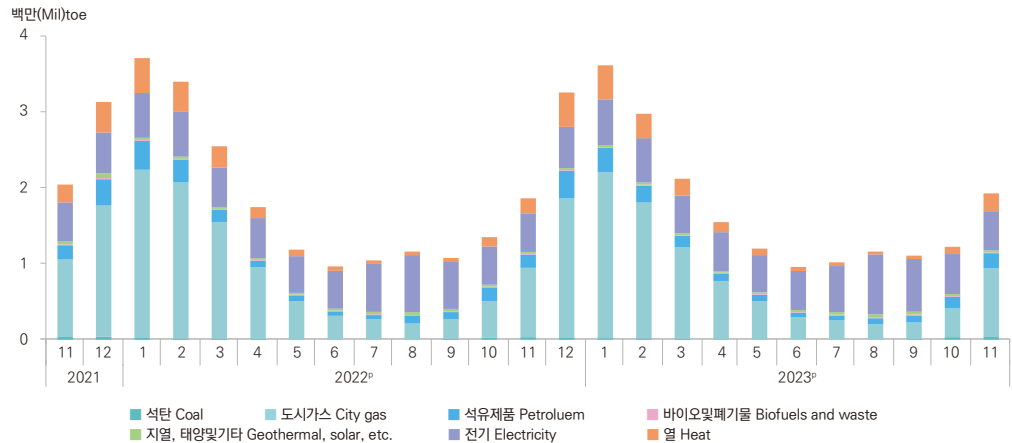
## ● 가정 Residential

〈1990~2022<sup>p</sup>〉

〈월별 Monthly〉

〈1990~2022<sup>p</sup>〉

〈월별 Monthly〉



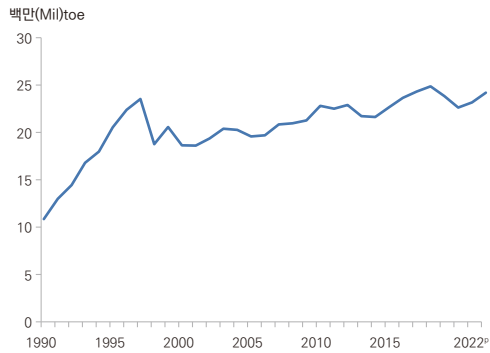
## 2.3.3 가정

## Residential

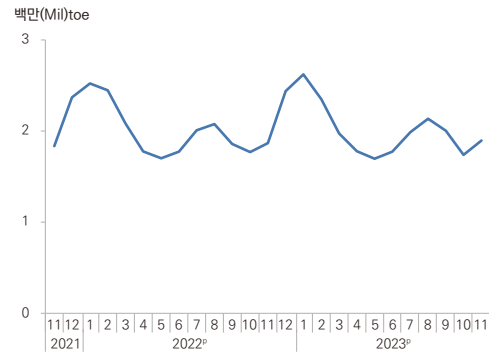
		합계 Total	석탄 Coal	도시가스 City gas	석유제품 Petroleum	바이오및폐기물 Biofuels and waste	지열,태양및기타 Geothermal, solar, etc.	전기 Electricity	열 Heat
		1,000 toe							
1990		11,262	8,023	454	1,254	-	6	1,525	-
1995		10,712	1,327	3,655	2,656	20	17	2,434	603
2000		16,284	450	7,353	4,099	43	35	3,191	1,113
2001		17,020	288	7,526	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		22,356	219	10,900	2,097	127	443	6,370	2,200
2021		22,940	193	11,104	2,096	127	485	6,670	2,265
2022 <sup>p</sup>		23,216	182	11,469	2,026	122	323	6,756	2,337
2021	11	2,040	37	1,018	187	10	38	515	235
	12	3,126	38	1,725	346	17	63	535	403
2022 <sup>p</sup>	1	3,703	22	2,213	381	11	28	590	459
	2	3,392	15	2,053	301	11	28	588	397
	3	2,544	12	1,535	164	9	25	518	280
	4	1,743	7	946	86	9	25	524	145
	5	1,184	4	502	78	9	23	482	86
	6	963	3	311	59	9	24	500	57
	7	1,042	4	266	54	11	30	631	46
	8	1,158	4	209	101	14	36	750	45
	9	1,075	14	259	90	11	30	618	53
	10	1,348	30	480	179	9	24	504	122
	11	1,859	35	911	174	9	24	509	196
	12	3,249	32	1,828	360	10	26	542	452
2023 <sup>p</sup>	1	3,607	21	2,183	316	11	28	601	447
	2	2,970	18	1,786	222	11	27	584	322
	3	2,116	12	1,207	148	9	24	498	219
	4	1,547	6	764	101	9	24	511	133
	5	1,198	4	502	87	8	23	488	85
	6	956	2	291	62	9	26	512	54
	7	1,018	1	252	66	12	33	605	48
	8	1,159	2	201	78	15	40	785	38
	9	1,106	8	218	94	13	34	695	44
	10	1,221	33	379	152	9	27	525	96
	11	1,923	35	903	199	10	27	515	235
2022 <sup>p</sup>	1-11	20,010	150	9,685	1,666	112	297	6,214	1,885
2023 <sup>p</sup>	1-11	18,821	141	8,688	1,525	117	313	6,320	1,719

## ● 상업·공공 Commercial & Public

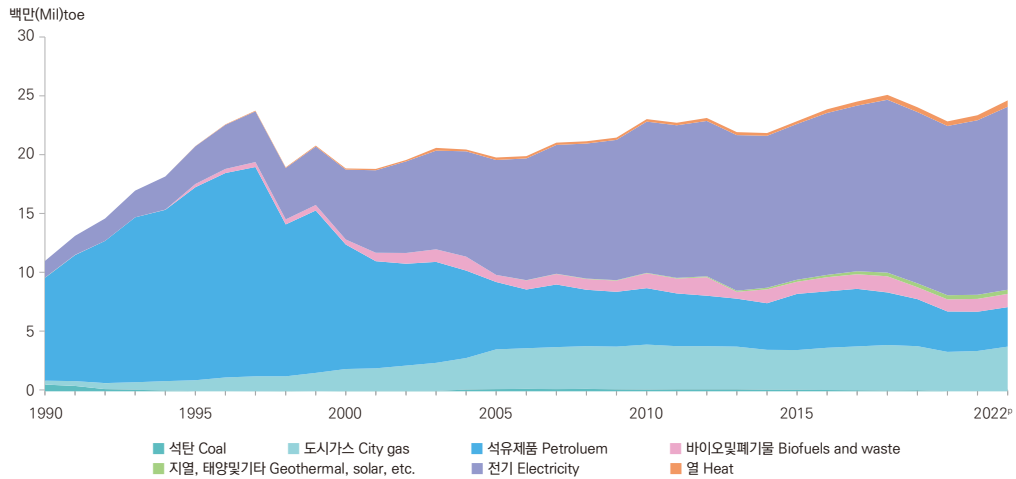
〈1990~2022<sup>p</sup>〉



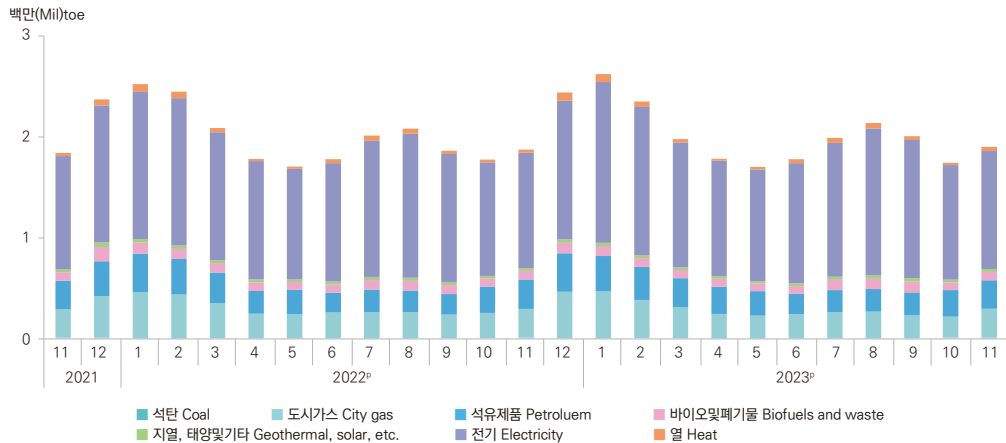
〈월별 Monthly〉



〈1990~2022<sup>p</sup>〉



〈월별 Monthly〉



## 2.3.4 상업·공공

## Commercial &amp; Public

		합계 <sup>1</sup> Total <sup>1</sup>	석탄 Coal	도시가스 City gas	석유제품 Petroleum	바이오및폐기물 Biofuels and waste	지열,태양및기타 Geothermal, solar, etc.	전기 Electricity	열 Heat
		1,000 toe							
1990		10,948	563	323	8,642	6	5	1,409	-
1995		20,600	5	935	16,202	261	6	3,159	34
2000		18,704	21	1,849	10,449	421	9	5,860	95
2001		18,671	35	1,886	8,996	710	7	6,921	115
2002		19,416	35	2,132	8,547	897	7	7,693	106
2003		20,448	34	2,358	8,474	1,043	7	8,283	244
2004		20,312	140	2,656	7,341	1,163	11	8,829	166
2005		19,625	191	3,333	5,663	580	12	9,643	202
2006		19,745	208	3,409	4,930	765	18	10,234	182
2007		20,879	186	3,534	5,254	882	24	10,814	185
2008		21,005	194	3,592	4,734	903	37	11,346	198
2009		21,297	157	3,591	4,604	928	39	11,779	189
2010		22,857	143	3,785	4,735	1,233	51	12,694	211
2011		22,554	163	3,630	4,426	1,239	65	12,819	211
2012		22,948	157	3,628	4,245	1,543	78	13,044	252
2013		21,772	162	3,586	4,027	580	103	13,061	252
2014		21,679	132	3,357	3,916	1,156	146	12,754	218
2015		22,692	118	3,355	4,706	1,016	182	13,073	242
2016		23,686	101	3,555	4,734	1,189	196	13,605	304
2017		24,333	88	3,677	4,841	1,223	247	13,909	345
2018		24,890	74	3,812	4,419	1,354	302	14,516	410
2019		23,850	85	3,708	3,948	988	335	14,393	391
2020		22,632	21	3,289	3,387	1,023	351	14,169	393
2021		23,128	18	3,364	3,299	1,074	361	14,578	435
2022 <sup>p</sup>		24,223	17	3,558	3,290	1,099	356	15,367	535
2021	11	1,841	3	284	283	84	28	1,127	30
	12	2,373	4	415	347	140	47	1,361	60
2022 <sup>p</sup>	1	2,526	2	456	382	109	35	1,463	78
	2	2,451	1	432	355	100	32	1,465	66
	3	2,088	1	345	306	93	30	1,271	41
	4	1,781	1	243	227	85	28	1,177	21
	5	1,706	0	237	243	78	25	1,099	23
	6	1,778	0	255	196	83	27	1,178	38
	7	2,013	0	258	225	96	31	1,353	51
	8	2,082	0	260	213	96	31	1,432	49
	9	1,863	1	233	204	89	28	1,275	32
	10	1,774	3	249	262	80	26	1,128	26
	11	1,874	3	287	294	84	27	1,147	30
	12	2,441	3	458	383	104	34	1,378	80
2023 <sup>p</sup>	1	2,625	2	463	353	100	31	1,598	78
	2	2,352	2	379	327	87	28	1,475	54
	3	1,979	1	308	287	82	27	1,240	34
	4	1,784	1	241	270	79	26	1,148	19
	5	1,702	0	224	243	76	24	1,109	25
	6	1,779	0	237	205	77	29	1,192	40
	7	1,991	0	259	220	101	30	1,330	52
	8	2,139	0	265	223	102	33	1,461	55
	9	2,008	1	230	224	108	33	1,373	38
	10	1,744	3	211	263	78	27	1,139	22
	11	1,901	3	290	282	84	29	1,172	41
2022 <sup>p</sup>	1-11	21,936	14	3,254	2,907	994	322	13,989	455
2023 <sup>p</sup>	1-11	22,004	13	3,107	2,897	973	316	14,238	459

1. 수력 포함

1. Total includes Hydro

## 2.4 사용 용도별 최종소비

## Total Final Consumption by Energy Use

		합계 Total	전력(수송제외) Electricity (excludes transport)	수송(동력) Transport	원료 Petrochemical feedstock	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		140,958	20,098	25,007	25,572	70,281
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		212,431	42,340	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		203,747	42,447	34,746	45,743	80,811
2021		215,664	44,430	36,636	50,069	84,530
2022 <sup>p</sup>		213,720	45,693	36,291	49,251	82,485
2021	11	17,902	3,560	3,005	3,973	7,364
	12	21,217	3,925	3,485	4,815	8,992
2022 <sup>p</sup>	1	21,568	4,160	3,172	4,637	9,600
	2	19,071	3,972	2,699	3,922	8,479
	3	18,671	3,818	2,664	4,516	7,672
	4	16,831	3,648	2,513	4,395	6,275
	5	17,316	3,517	3,509	4,034	6,256
	6	15,901	3,590	2,703	3,797	5,811
	7	17,509	4,048	3,219	4,459	5,784
	8	17,695	4,189	3,553	4,151	5,803
	9	15,773	3,783	2,847	3,806	5,337
	10	16,234	3,525	3,140	3,552	6,017
	11	16,924	3,536	2,825	3,857	6,705
	12	20,488	3,909	3,505	4,134	8,940
2023 <sup>p</sup>	1	20,220	4,279	2,802	4,148	8,991
	2	18,207	4,006	2,574	3,724	7,903
	3	18,390	3,677	3,228	4,267	7,218
	4	16,058	3,530	2,647	3,659	6,222
	5	16,395	3,448	3,192	3,711	6,044
	6	15,768	3,599	2,955	3,482	5,732
	7	17,126	3,896	3,256	3,937	6,036
	8	16,922	4,219	2,892	3,930	5,880
	9	16,453	4,014	2,869	3,813	5,758
	10	16,212	3,473	2,846	3,831	6,063
	11	17,492	3,576	2,971	3,776	7,169
2022 <sup>p</sup>	1-11	193,493	41,784	32,842	45,126	73,741
2023 <sup>p</sup>	1-11	189,243	41,718	32,230	42,279	73,016

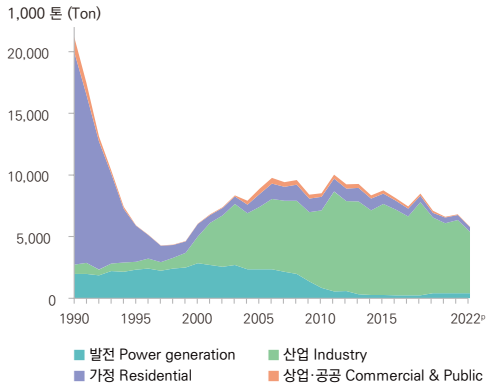
1. 최종적으로 열을 얻기 위해 사용된 에너지 상품들의 합계(열에너지(heat) 포함)

1. Thermal energy.

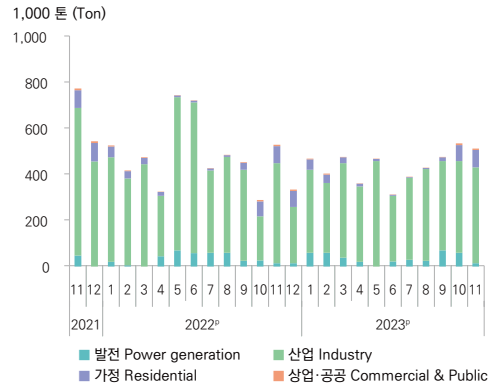


## ● 무연탄 소비 Anthracite Consumption

〈1990~2022<sup>o</sup>〉

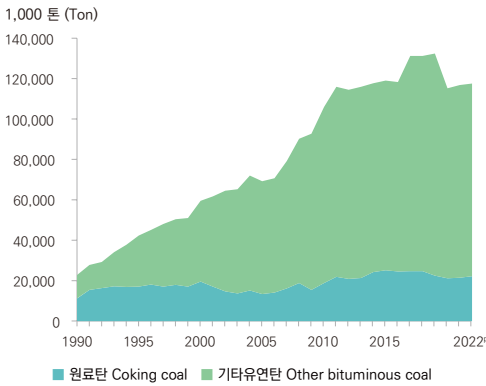


〈월별 Monthly〉

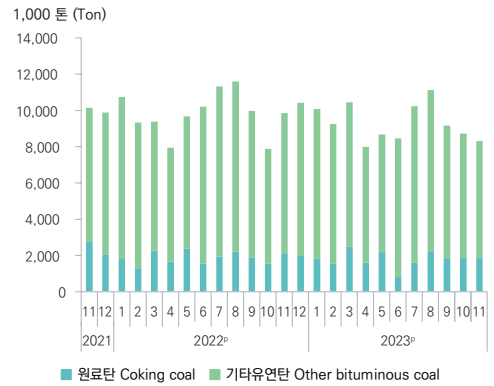


## ● 유연탄 수입 Bituminous Coal Imports

〈1990~2022<sup>o</sup>〉

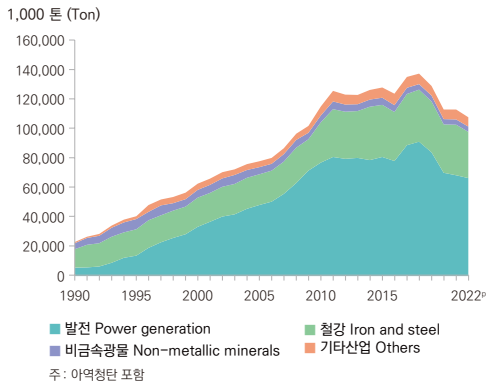


〈월별 Monthly〉

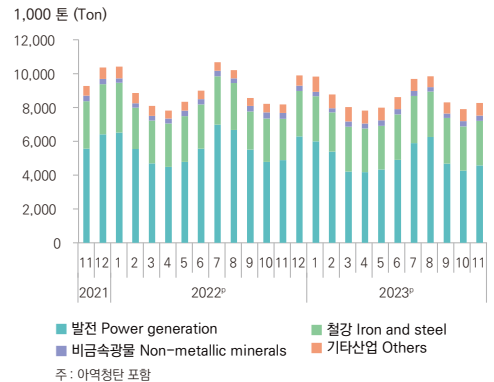


## ● 유연탄 소비 Bituminous Coal Consumption

〈1990~2022<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	6,221
2021		898	6,475	2,810	2,806	4	7,334	860	6,474	900	6,424
2022 <sup>p</sup>		820	5,384	2,807	2,803	4	6,207	823	5,384	912	5,297
2021	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	503
	2	60	373	2,847	2,843	4	408	36	372	6	409
	3	76	458	2,898	2,894	4	483	25	458	0	472
	4	76	300	2,895	2,891	4	379	79	300	122	278
	5	72	744	2,887	2,883	4	824	80	744	83	671
	6	71	742	2,906	2,902	4	794	52	742	79	659
	7	68	407	2,896	2,892	4	485	78	407	136	365
	8	61	481	2,895	2,891	4	543	62	481	133	423
	9	62	443	2,893	2,889	4	507	64	443	62	427
	10	64	190	2,875	2,871	4	272	82	190	85	261
	11	69	496	2,841	2,837	4	599	103	496	63	513
	12	69	300	2,807	2,803	4	403	103	300	122	317
2023 <sup>p</sup>	1	55	403	2,766	2,762	4	502	99	403	120	407
	2	63	345	2,749	2,745	4	425	80	345	121	342
	3	65	463	2,737	2,733	4	540	77	463	92	436
	4	56	306	2,759	2,755	4	340	34	306	20	340
	5	55	504	2,826	2,822	4	492	-12	504	32	465
	6	56	282	2,844	2,840	4	320	38	282	58	288
	7	50	363	2,885	2,881	4	372	9	363	62	357
	8	45	483	2,875	2,871	4	538	55	483	116	402
	9	47	418	2,847	2,843	4	493	75	418	113	404
	10	46	410	2,772	2,768	4	531	121	410	78	472
	11	61	435	2,741	2,737	4	527	92	435	36	495
2022 <sup>p</sup> 1-11		751	5,084	2,841	2,837	4	5,804	720	5,084	790	4,981
2023 <sup>p</sup> 1-11		599	4,411	2,741	2,737	4	5,079	668	4,411	849	4,407

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		7,193	971	400	571	6,221	5,715	462	44
2021		7,324	900	400	500	6,424	5,977	409	39
2022 <sup>2</sup>		6,209	912	400	512	5,297	4,874	387	36
2021	11	832	109	47	62	723	639	77	7
	12	542	-	-	-	542	454	80	8
2022 <sup>2</sup>	1	524	21	21	-	503	452	46	4
	2	415	6	6	-	409	374	32	3
	3	472	0	-	0	472	443	26	2
	4	401	122	45	77	278	261	15	1
	5	754	83	70	13	671	662	8	1
	6	739	79	58	21	659	652	7	1
	7	501	136	60	76	365	356	8	1
	8	555	133	60	73	423	414	8	1
	9	489	62	25	37	427	394	30	3
	10	346	85	26	59	261	192	64	6
	11	576	63	14	49	513	432	74	7
	12	439	122	15	107	317	243	68	6
2023 <sup>3</sup>	1	527	120	60	60	407	359	44	4
	2	462	121	60	61	342	301	37	4
	3	528	92	38	54	436	409	25	2
	4	360	20	20	-	340	327	12	1
	5	497	32	-	32	465	456	8	1
	6	347	58	22	36	288	283	5	0
	7	419	62	30	32	357	354	3	0
	8	518	116	25	91	402	397	5	0
	9	517	113	70	43	404	386	16	2
	10	550	78	60	18	472	395	70	7
	11	531	36	15	21	495	414	75	7
2022 <sup>2</sup>	1-11	5,771	790	385	405	4,981	4,631	319	30
2023 <sup>3</sup>	1-11	5,256	849	400	449	4,407	4,081	298	28

## 3.3 유연탄 및 기타 수급

## Bituminous and Other Coal Overview

		수입	수출	재고	일차에너지공급	원료탄		발전	최종소비
		Imports	Exports	Stock	TPES	Coking coal	기타유연탄 Other bituminous coal	Power generation	TFC
		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	42,974
2021		119,625	313	5,399	120,368	21,333	96,829	68,040	44,566
2022 <sup>p</sup>		120,165	28	5,886	119,650	22,198	95,067	66,212	41,568
2021	11	10,383	0	6,185	10,443	2,602	7,552	5,516	3,760
	12	10,081	0	5,399	10,867	1,927	8,696	6,362	3,958
2022 <sup>p</sup>	1	10,809	28	5,627	10,554	1,606	8,856	6,469	3,877
	2	9,561	0	5,162	10,026	1,578	8,182	5,510	3,305
	3	9,454	0	6,099	8,516	2,141	6,247	4,666	3,389
	4	8,205	0	5,924	8,380	1,606	6,461	4,455	3,332
	5	9,734	0	6,472	9,186	2,001	7,078	4,748	3,559
	6	10,396	0	6,191	10,677	2,056	8,387	5,520	3,428
	7	11,435	0	6,345	11,280	1,700	9,424	6,932	3,687
	8	11,810	0	6,458	11,698	2,183	9,255	6,615	3,569
	9	10,177	0	6,108	10,526	1,860	8,416	5,465	3,076
	10	7,996	0	6,181	7,924	1,855	5,905	4,740	3,439
	11	10,056	0	6,556	9,681	1,816	7,615	4,850	3,302
	12	10,545	0	5,886	11,214	1,798	9,240	6,242	3,619
2023 <sup>p</sup>	1	10,279	0	6,064	9,614	2,902	6,473	5,949	3,834
	2	9,383	0	6,012	9,435	1,594	7,670	5,357	3,378
	3	10,646	0	6,871	9,787	2,323	7,219	4,185	3,799
	4	8,105	0	6,639	8,336	1,581	6,597	4,149	3,626
	5	8,793	0	6,608	8,824	2,044	6,621	4,296	3,651
	6	8,511	0	6,110	9,009	1,098	7,810	4,866	3,716
	7	10,347	-	5,956	10,501	1,642	8,705	5,841	3,785
	8	11,301	0	5,453	11,804	2,432	9,140	6,215	3,586
	9	9,357	0	5,498	9,312	1,784	7,296	4,641	3,623
	10	8,711	0	4,961	9,248	1,832	7,388	4,226	3,645
	11	8,507	0	4,886	8,582	1,797	6,548	4,537	3,699
2022 <sup>p</sup>	1-11	109,634	28	6,556	108,449	20,400	85,827	59,970	37,964
2023 <sup>p</sup>	1-11	103,940	0	4,886	104,452	21,028	81,467	54,262	40,343

주: 유연탄 및 기타는 원료탄, 기타유연탄, 아역청탄, 갈탄, 토탄, 고행연료, 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		119,625	21,511	95,595	2,036	0	145	0	338
2022 <sup>p</sup>		120,165	22,266	95,485	2,016	0	110	0	287
2021	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	11,810	2,186	9,364	202	-	32	0	26
	9	10,177	1,857	8,069	213	-	6	-	32
	10	7,996	1,505	6,326	136	-	11	-	18
	11	10,056	2,091	7,715	212	0	7	0	31
	12	10,545	1,936	8,431	144	0	10	-	23
2023 <sup>p</sup>	1	10,279	1,794	8,245	214	-	7	-	18
	2	9,383	1,505	7,708	143	-	6	-	22
	3	10,646	2,446	7,955	216	0	8	-	21
	4	8,105	1,575	6,372	134	-	7	-	18
	5	8,793	2,157	6,477	137	-	5	0	16
	6	8,511	774	7,636	70	0	8	-	23
	7	10,347	1,585	8,609	135	0	5	0	14
	8	11,301	2,200	8,868	207	0	5	-	20
	9	9,357	1,811	7,314	212	0	5	-	15
	10	8,711	1,835	6,848	-	0	5	-	23
	11	8,507	1,818	6,453	212	-	5	-	19
2022 <sup>p</sup>	1-11	109,634	20,330	87,054	1,872	0	100	0	278
2023 <sup>p</sup>	1-11	103,940	19,498	82,484	1,680	0	68	0	209

자료: 한국무역협회

Source: Korea International Trade Association

## 3.5 유연탄 소비

## Bituminous Coal Consumption

		합계 <sup>1</sup>	발전 <sup>2</sup>	산업			
		Total <sup>1</sup>	Power generation <sup>2</sup>	Industry	철강	비금속광물	기타
					Iron and steel	Non-metallic minerals	Others
		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		112,511	69,772	42,740	32,690	3,404	6,646
2021		112,435	68,040	44,395	34,096	3,649	6,651
2022 <sup>p</sup>		107,411	66,212	41,199	31,151	3,656	6,392
2021	11	9,197	5,516	3,681	2,797	316	568
	12	10,282	6,362	3,920	2,945	306	669
2022 <sup>p</sup>	1	10,331	6,469	3,862	2,913	267	682
	2	8,784	5,510	3,274	2,422	246	605
	3	8,030	4,666	3,364	2,507	272	585
	4	7,754	4,455	3,299	2,543	300	456
	5	8,273	4,748	3,525	2,674	332	518
	6	8,924	5,520	3,404	2,603	308	493
	7	10,596	6,932	3,664	2,836	325	503
	8	10,125	6,615	3,510	2,758	281	471
	9	8,503	5,465	3,038	2,247	317	474
	10	8,150	4,740	3,410	2,558	362	490
	11	8,114	4,850	3,264	2,423	340	501
	12	9,828	6,242	3,586	2,668	307	612
2023 <sup>p</sup>	1	9,757	5,949	3,808	2,657	253	898
	2	8,707	5,357	3,350	2,288	251	811
	3	7,955	4,185	3,770	2,629	306	835
	4	7,750	4,149	3,601	2,552	306	744
	5	7,925	4,296	3,629	2,562	333	734
	6	8,552	4,866	3,686	2,666	313	707
	7	9,607	5,841	3,766	2,775	292	699
	8	9,776	6,215	3,561	2,653	263	645
	9	8,244	4,641	3,603	2,694	254	656
	10	7,843	4,226	3,617	2,606	307	704
	11	8,212	4,537	3,675	2,625	302	748
2022 <sup>p</sup>	1-11	97,585	59,970	37,615	28,485	3,350	5,780
2023 <sup>p</sup>	1-11	94,328	54,262	40,066	28,705	3,180	8,181

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

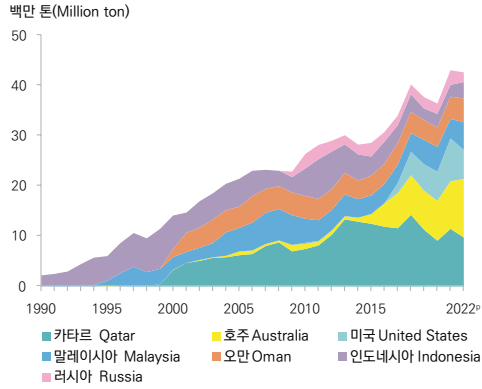
Source: Korea Coal Association.



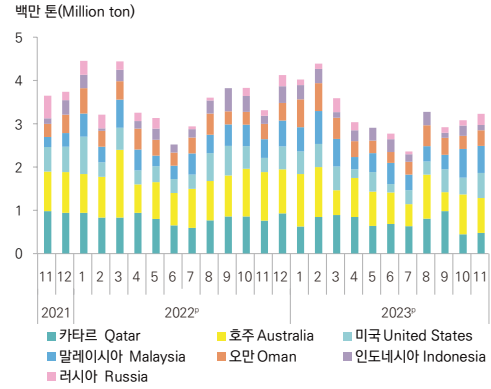


## ● 천연가스 수입 Natural Gas Imports

〈1990~2022<sup>o</sup>〉

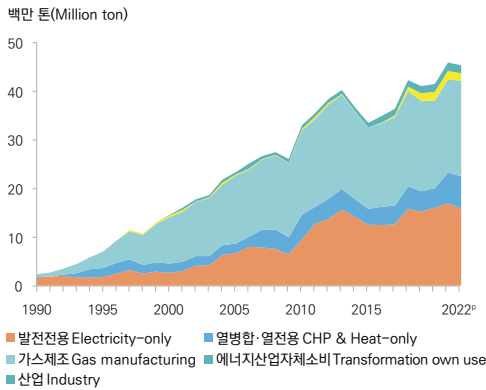


〈월별 Monthly〉

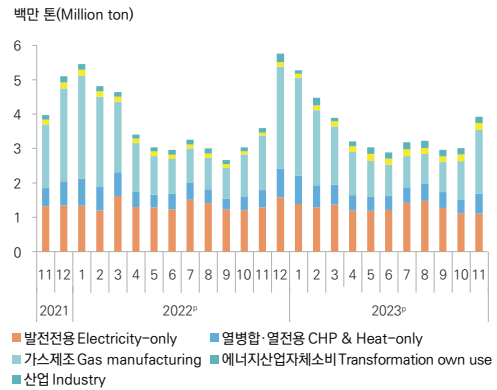


## ● 천연가스 소비 Natural Gas Consumption

〈1990~2022<sup>o</sup>〉

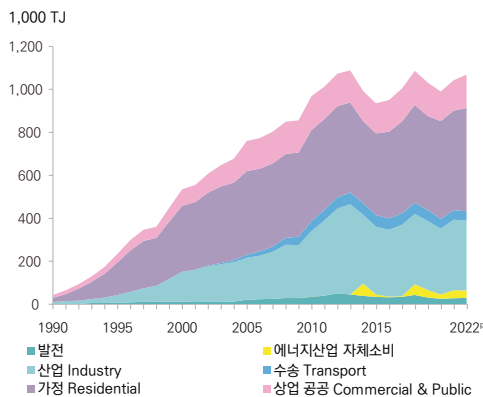


〈월별 Monthly〉

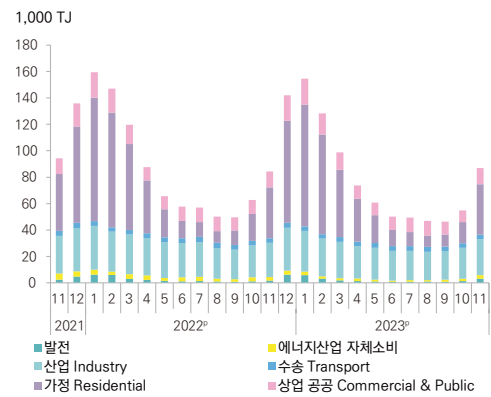


## ● 도시가스 소비 City Gas consumption

〈1990~2022<sup>o</sup>〉



〈월별 Monthly〉





#### 4.1 천연가스 수급

#### 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	103	6,810	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	24,634	23,893	1,014
2007		271	25,569	1,111	26,665	25,878	645
2008		181	27,259	2,558	25,994	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	36,398	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	41,252	38,038	1,479
2020		142	39,982	2,886	41,282	38,024	1,623
2021		42	45,932	3,207	45,631	42,367	1,632
2022 <sup>p</sup>		-	46,394	4,351	45,242	42,351	1,703
2021	11	2	3,846	4,146	4,144	3,682	137
	12	1	3,855	3,207	4,796	4,724	175
2022 <sup>p</sup>	1	-	4,999	2,736	5,470	5,083	162
	2	-	3,474	1,464	4,746	4,481	152
	3	-	4,952	1,750	4,666	4,336	128
	4	-	3,442	1,949	3,243	3,144	115
	5	-	3,384	2,118	3,215	2,767	110
	6	-	2,515	1,844	2,790	2,686	144
	7	-	3,251	1,851	3,241	2,990	138
	8	-	3,788	2,786	2,831	2,719	149
	9	-	4,217	3,975	3,046	2,428	113
	10	-	4,099	5,210	2,863	2,813	117
	11	-	3,767	5,569	3,408	3,362	126
	12	-	4,506	4,368	5,704	5,352	246
2023 <sup>p</sup>	1	-	4,790	3,955	5,186	5,030	97
	2	-	5,088	4,492	4,550	4,095	221
	3	-	4,034	5,191	3,335	3,628	100
	4	-	3,150	5,135	3,206	2,891	141
	5	-	3,105	5,272	2,967	2,629	187
	6	-	2,929	5,133	3,068	2,522	180
	7	-	2,614	4,490	3,257	2,766	207
	8	-	3,407	4,810	3,088	2,831	203
	9	-	2,918	4,921	2,806	2,599	192
	10	-	3,394	4,935	3,380	2,617	181
	11	-	3,719	4,960	3,693	3,524	185
2022 <sup>p</sup>	1-11	-	41,888	5,569	39,520	36,808	1,453
2023 <sup>p</sup>	1-11	-	39,149	4,960	38,536	35,132	1,895

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 Import Volume								수입액 Imports value 백만(Mil) USD
		합계 <sup>1</sup> Total <sup>1</sup>	카타르 Qatar	호주 Australia	미국 United States	말레이시아 Malaysia	오만 Oman	인도네시아 Indonesia	러시아 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		45,932	11,464	9,465	8,478	3,906	4,415	2,387	2,867	25,453
2022 <sup>p</sup>		46,394	9,727	11,651	5,759	5,516	4,757	3,226	1,962	50,022
2021	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	5,690
	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	3,251	591	900	331	491	369	190	65	3,357
	8	3,788	762	910	647	420	490	308	64	4,541
	9	4,217	856	946	686	493	301	535	-	6,201
	10	4,099	852	1,102	523	495	300	364	191	5,112
	11	3,767	760	1,120	327	432	355	190	127	4,743
	12	4,506	925	1,021	524	599	410	387	254	5,656
2023 <sup>p</sup>	1	4,790	622	1,216	517	565	642	331	127	6,206
	2	5,088	843	1,154	532	762	647	322	127	5,611
	3	4,034	888	574	546	638	490	131	318	3,706
	4	3,150	845	900	196	288	362	252	191	2,202
	5	3,105	635	791	453	438	288	299	-	2,110
	6	2,929	683	725	197	486	249	302	127	2,014
	7	2,614	632	504	324	358	296	176	62	1,623
	8	3,407	803	1,017	302	355	485	307	-	2,249
	9	2,918	980	438	527	334	391	119	128	1,979
	10	3,394	440	923	387	662	308	234	126	2,133
	11	3,719	475	804	582	624	365	118	257	2,396
2022 <sup>p</sup>	1-11	41,888	8,803	10,630	5,235	4,917	4,347	2,839	1,708	44,366
2023 <sup>p</sup>	1-11	39,149	7,847	9,045	4,563	5,511	4,524	2,592	1,465	32,229

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	발전전용	열병합·열전용	가스제조	에너지산업자체소비 <sup>2</sup>	산업
		Total <sup>1</sup>	Power generation	Electricity-only	CHP & Heat-only	Gas manufacturing	Transformation own use <sup>2</sup>	Industry
		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		32,984	14,588	9,462	5,127	17,354	274	766
2011		35,500	16,171	12,707	3,465	18,090	470	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		41,002	19,406	15,201	4,205	18,633	1,487	1,479
2020		41,489	19,979	14,650	5,329	18,045	1,848	1,623
2021		45,807	23,249	17,338	5,910	19,118	1,817	1,632
2022 <sup>p</sup>		45,562	22,707	16,333	6,374	19,643	1,514	1,703
2021	11	3,955	1,844	1,321	523	1,837	137	137
	12	5,072	2,040	1,332	708	2,684	173	175
2022 <sup>p</sup>	1	5,427	2,118	1,332	786	2,965	181	162
	2	4,789	1,894	1,194	700	2,587	157	152
	3	4,612	2,297	1,611	686	2,039	148	128
	4	3,384	1,746	1,290	457	1,397	126	115
	5	3,020	1,656	1,288	369	1,111	141	110
	6	2,946	1,686	1,225	461	1,000	117	144
	7	3,239	1,991	1,507	484	998	113	138
	8	2,985	1,811	1,404	406	908	118	149
	9	2,649	1,539	1,227	312	889	107	113
	10	3,023	1,599	1,206	394	1,213	93	117
	11	3,573	1,783	1,286	496	1,580	85	126
	12	5,724	2,395	1,577	818	2,957	127	246
2023 <sup>p</sup>	1	5,247	2,198	1,379	820	2,832	121	97
	2	4,451	1,925	1,283	642	2,170	135	221
	3	3,870	1,941	1,362	578	1,687	143	100
	4	3,190	1,635	1,193	442	1,256	160	141
	5	3,015	1,586	1,189	397	1,043	201	187
	6	2,869	1,626	1,209	418	895	169	180
	7	3,167	1,863	1,414	449	903	193	207
	8	3,204	1,966	1,474	492	865	172	203
	9	2,947	1,725	1,272	454	874	155	192
	10	2,991	1,510	1,111	399	1,107	194	181
	11	3,904	1,675	1,101	574	1,849	196	185
2022 <sup>p</sup>	1-11	39,645	20,120	14,568	5,551	16,689	1,386	1,453
2023 <sup>p</sup>	1-11	38,857	19,650	13,987	5,663	15,482	1,838	1,895

1. 일차에너지소비

2. 석유정제, LNG 생산기지 및 발전소 시운전 등.

자료: 한국가스공사, LNG직도입사.

1. Total primary energy consumption

2. LNG consumption in oil refinery, LNG terminals and trial run of power plants.

Source: Korea Gas Corporation and LNG direct Importers.

## 4.4 도시가스 수급

## City Gas Overview

		공급 Supply			소비 Consumption						
		프로판 투입(A)	LNG 투입(B)	도시가스 생산(A+B) <sup>1</sup>	발전 <sup>2</sup>	에너지산업 자체소비 <sup>3</sup>	최종소비				
		Propane	LNG	Production <sup>1</sup>	Power generation <sup>2</sup>	Transformation own use <sup>3</sup>	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		10,934	827,384	838,319	27,817	-	821,937	248,404	32,523	390,608	150,401
2009		7,608	834,297	841,905	27,758	-	829,412	246,634	40,186	392,262	150,330
2010		17,774	944,574	962,348	33,514	-	936,200	306,857	46,544	424,334	158,465
2011		24,512	984,605	1,009,117	38,744	-	975,004	350,994	49,164	422,849	151,997
2012		26,945	1,058,096	1,085,042	50,204	-	1,024,273	395,377	52,182	424,828	151,886
2013		4,441	1,059,148	1,063,588	44,504	-	1,045,539	421,206	54,519	419,678	150,136
2014		577	980,905	981,482	37,472	57,182	899,656	321,715	54,696	382,703	140,543
2015		650	913,480	914,130	33,176	11,659	891,995	315,629	53,646	382,271	140,449
2016		741	938,171	938,911	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		4,493	1,073,038	1,077,531	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		6,808	1,045,368	1,052,176	26,533	37,892	978,944	328,869	44,363	464,885	140,826
2022 <sup>p</sup>		13,998	1,075,739	1,089,737	28,846	34,698	998,003	325,914	42,934	480,197	148,957
2021	11	401	100,463	100,864	2,152	4,668	86,352	28,194	3,648	42,627	11,882
	12	2,498	146,741	149,239	4,382	3,957	126,007	32,588	3,810	72,233	17,375
2022 <sup>p</sup>	1	2,486	162,381	164,867	5,821	3,796	148,179	32,832	3,604	92,653	19,090
	2	2,043	141,686	143,728	5,743	2,415	137,327	30,073	3,236	85,935	18,084
	3	2,011	111,656	113,668	2,647	3,653	111,919	29,695	3,506	64,271	14,447
	4	736	76,527	77,263	1,911	3,501	81,196	27,943	3,484	39,614	10,155
	5	350	60,861	61,211	1,259	2,178	61,358	26,784	3,633	21,031	9,910
	6	291	54,762	55,053	930	3,073	52,863	25,645	3,544	13,014	10,659
	7	151	54,664	54,814	1,066	3,283	51,786	26,019	3,859	11,118	10,790
	8	951	49,741	50,692	710	2,195	46,458	22,987	3,836	8,749	10,886
	9	575	48,706	49,281	586	1,971	46,320	22,110	3,574	10,864	9,771
	10	1,056	66,438	67,494	922	2,923	57,979	23,925	3,532	20,107	10,415
	11	678	86,514	87,192	1,426	2,743	79,155	25,539	3,463	38,124	12,029
	12	2,670	161,949	164,619	5,826	3,055	131,601	32,233	3,663	76,535	19,170
2023 <sup>p</sup>	1	3,999	155,091	159,089	5,476	2,654	144,774	30,626	3,390	91,389	19,369
	2	3,466	118,843	122,309	2,797	1,916	122,178	28,352	3,152	74,792	15,882
	3	668	92,390	93,058	1,616	1,535	94,357	27,439	3,459	50,546	12,914
	4	-	68,761	68,761	1,013	2,021	69,791	24,335	3,363	31,984	10,108
	5	-	57,133	57,133	641	1,438	57,850	23,948	3,506	21,016	9,379
	6	-	49,039	49,039	474	924	47,964	22,355	3,512	12,193	9,905
	7	-	49,460	49,460	489	1,334	46,885	21,838	3,662	10,562	10,824
	8	-	47,380	47,380	663	1,202	44,351	21,162	3,680	8,429	11,080
	9	-	47,865	47,865	568	1,515	43,646	21,411	3,449	9,140	9,646
	10	377	60,637	61,014	997	1,885	51,231	23,160	3,355	15,873	8,843
	11	649	101,252	101,901	2,791	2,767	80,274	26,935	3,387	37,812	12,141
2022 <sup>p</sup>	1-11	11,328	913,935	925,263	23,020	31,734	874,540	293,553	39,271	405,480	136,236
2023 <sup>p</sup>	1-11	9,158	847,852	857,010	17,524	19,190	803,302	271,560	37,915	363,735	130,092

1. 1990년에는 납사 포함.

2. 열병합, 열전용

3. 코크스, 연탄 및 석유정제품 제조.

자료: 한국도시가스협회

1. Includes naphtha production for 1990 data.

2. Includes CHP and heat-only plants.

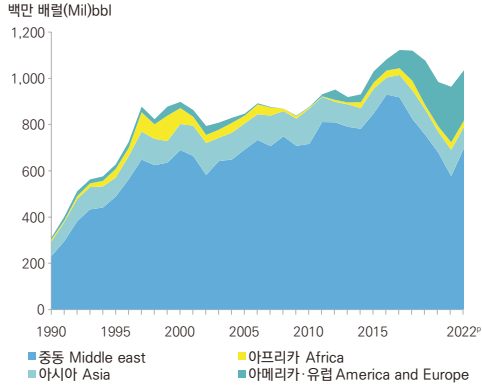
3. Production of coke oven coke, briquet and oil refinery products.

Source: Korea City Gas Association

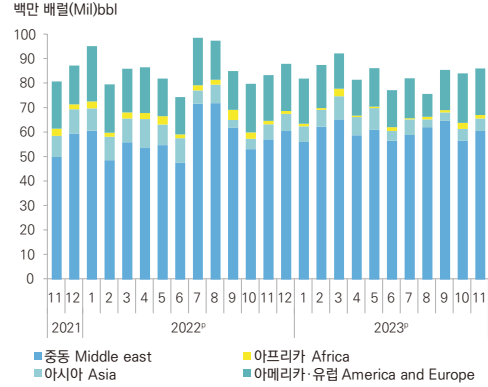


## ● 원유 수입 Crude Oil Imports

〈1990~2022<sup>o</sup>〉

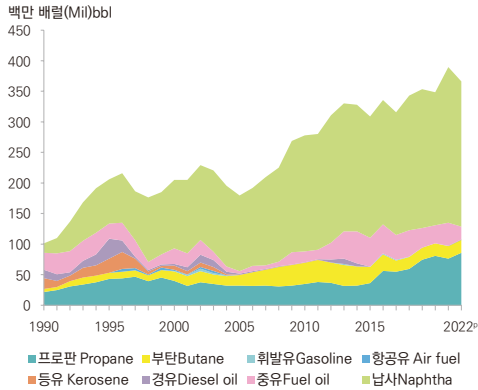


〈월별 Monthly〉

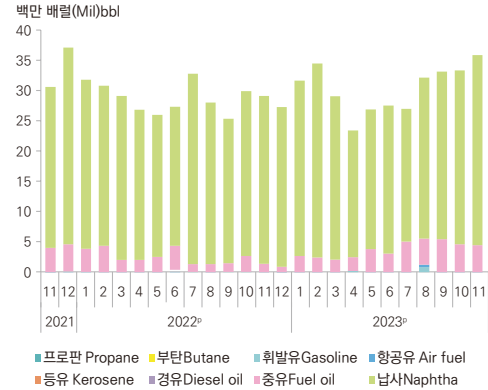


## ● 석유제품 수입 Petroleum Products Imports

〈1990~2022<sup>o</sup>〉

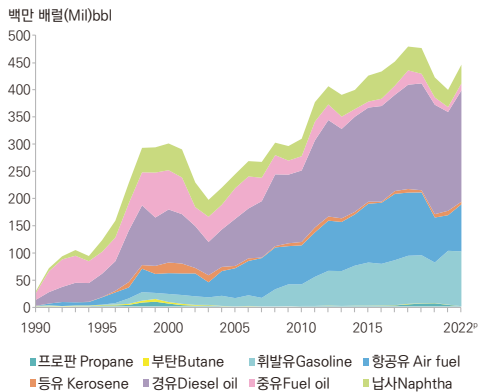


〈월별 Monthly〉

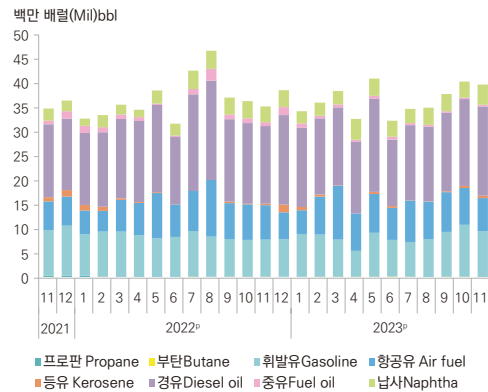


## ● 석유제품 수출 Petroleum Products Exports

〈1990~2022<sup>o</sup>〉

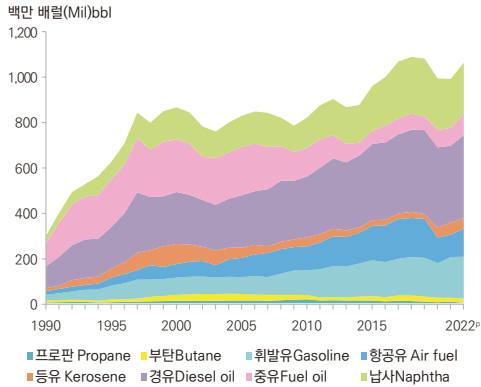


〈월별 Monthly〉

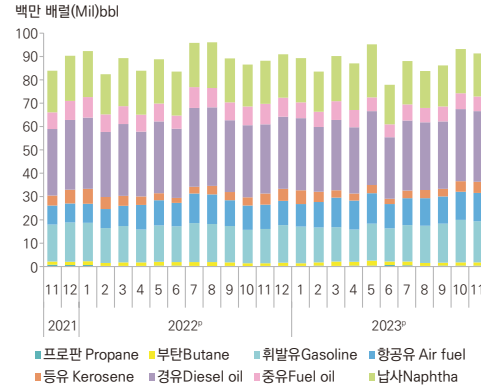


## ● 정제 생산 Petroleum Products Production

<1990~2022<sup>o</sup>>

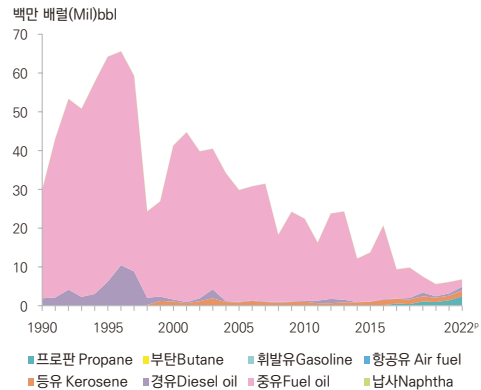


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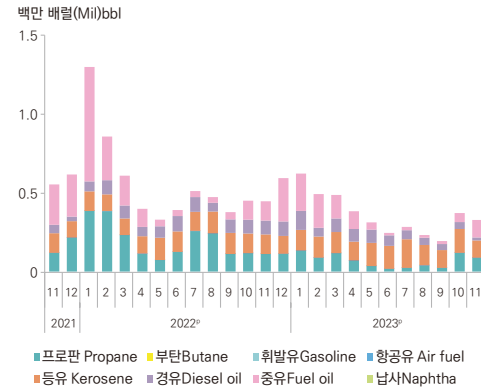


## ● 석유제품 발전 및 열생산투입 Power Generation & Others

<1990~2022<sup>o</sup>>

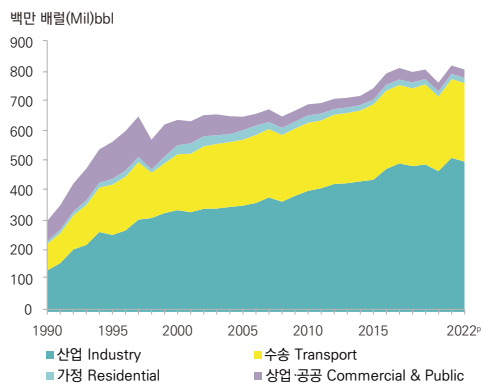


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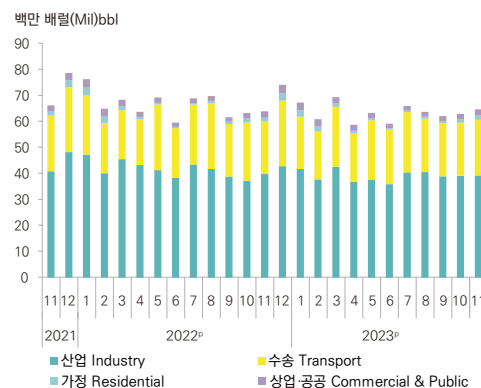


## ● 석유제품 최종에너지 부문별 소비 Final Energy Consumption of Petroleum Products by Sector

<1990~2022<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	1,030,315	2,400	44,935	1,017,256
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		36	973,734	1,782	48,956	973,916
2022 <sup>p</sup>		17	1,047,685	1,848	52,246	1,042,564
2021	11	3	81,366	306	48,749	82,175
	12	2	88,261	511	48,956	87,546
2022 <sup>p</sup>	1	8	95,915	380	53,329	91,170
	2	-	80,804	113	52,483	81,536
	3	-	87,579	230	52,779	87,053
	4	-	87,001	233	56,018	83,528
	5	-	82,683	101	52,465	86,136
	6	-	74,588	161	46,772	80,119
	7	-	99,742	100	53,052	93,362
	8	-	98,674	143	56,827	94,756
	9	8	86,020	73	56,258	86,524
	10	-	81,056	110	52,717	84,487
	11	-	84,629	112	51,769	85,466
	12	-	88,994	92	52,246	88,425
2023 <sup>p</sup>	1	-	82,517	212	47,573	86,977
	2	-	88,198	51	54,164	81,556
	3	-	92,676	268	59,105	87,468
	4	-	82,105	135	55,085	85,989
	5	-	86,626	256	48,633	92,823
	6	-	78,448	185	52,056	74,839
	7	-	82,989	265	50,883	83,897
	8	-	76,766	355	47,425	79,869
	9	-	86,338	244	51,928	81,592
	10	-	84,496	145	48,727	87,552
	11	-	86,447	153	48,384	86,638
2022 <sup>p</sup>	1-11	17	958,691	1,756	51,769	954,139
2023 <sup>p</sup>	1-11	-	927,607	2,268	48,384	929,201

1. 석유제품 생산(정제투입) 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

전환과정 <sup>1</sup>	정제능력 <sup>3</sup>					
	원유	정제원료	기타 <sup>2</sup>			
Transformation processes <sup>1</sup>	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	
1,029,608	1,014,957	14,105	546	3,059	2015	
1,085,610	1,072,234	12,643	733	3,064	2016	
1,153,915	1,116,614	36,670	631	3,105	2017	
1,175,276	1,106,317	68,740	219	3,204	2018	
1,159,008	1,064,217	94,852	-62	3,204	2019	
1,089,285	980,379	108,939	-33	3,204	2020	
1,089,068	961,384	128,356	-672	3,204	2021	
1,155,425	1,026,102	130,311	-988	3,204	2022 <sup>p</sup>	
91,604	80,874	10,800	-70	3,204	11	2021
97,671	86,362	11,387	-78	3,204	12	
99,599	89,582	10,218	-201	3,204	1	2022 <sup>p</sup>
89,389	79,853	9,678	-142	3,204	2	
96,985	85,511	11,631	-156	3,204	3	
91,387	83,526	8,003	-142	3,204	4	
95,946	84,897	11,056	-7	3,204	5	
91,203	79,069	12,236	-101	3,204	6	
103,079	91,705	11,413	-39	3,204	7	
103,049	93,673	9,397	-21	3,204	8	
95,878	85,370	10,597	-88	3,204	9	
94,235	82,308	11,946	-19	3,204	10	
96,016	83,319	12,747	-50	3,204	11	
98,659	87,291	11,389	-22	3,204	12	
97,024	86,234	10,891	-101	3,204	1	2023 <sup>p</sup>
90,398	80,581	9,934	-117	3,204	2	
97,319	86,234	11,022	63	3,204	3	
94,098	85,692	8,350	56	3,204	4	
102,390	91,597	10,823	-30	3,204	5	
84,275	72,417	11,824	34	3,204	6	
94,895	82,668	12,148	79	3,204	7	
90,314	79,158	11,100	56	3,204	8	
94,360	80,532	13,850	-22	3,204	9	
101,466	86,154	15,200	112	3,204	10	
99,640	84,942	14,703	-5	3,204	11	
1,056,766	938,811	118,921	-967	3,204	1-11	2022 <sup>p</sup>
1,046,180	916,209	129,846	125	3,204	1-11	2023 <sup>p</sup>

1. It is amount input to the process of refining input, 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		960,147	574,430	483,832	85,262	113,932	4,965	108,967
2022 <sup>p</sup>		1,031,283	695,122	512,095	182,291	91,418	8,703	82,715
2021	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	50,636	9,094	9,028	760	8,268
	2	79,284	48,527	39,785	8,743	9,513	766	8,747
	3	85,558	55,742	51,464	4,278	9,693	-	9,693
	4	86,216	53,456	47,327	6,129	11,721	766	10,955
	5	81,610	54,532	43,881	10,652	8,392	581	7,811
	6	74,055	47,520	40,843	6,677	9,853	766	9,086
	7	98,176	71,343	48,812	22,531	5,480	766	4,714
	8	96,917	71,657	43,711	27,946	7,424	1,339	6,085
	9	84,633	61,702	37,822	23,880	3,090	766	2,324
	10	79,527	52,950	30,028	22,922	4,217	766	3,451
	11	82,947	56,870	38,536	18,334	6,114	1,426	4,687
	12	87,568	60,357	39,250	21,106	6,895	-	6,895
2023 <sup>p</sup>	1	81,634	55,819	36,985	18,834	6,384	-	6,384
	2	87,163	62,128	36,245	25,883	6,800	-	6,800
	3	91,780	65,085	38,645	26,440	9,328	651	8,677
	4	81,137	58,541	35,702	22,839	7,454	-	7,454
	5	85,788	60,844	34,795	26,049	8,717	-	8,717
	6	76,849	56,348	32,027	24,321	4,041	-	4,041
	7	81,760	58,631	38,595	20,036	6,402	-	6,402
	8	75,322	61,810	46,571	15,239	3,202	-	3,202
	9	85,115	64,413	51,097	13,316	3,388	-	3,388
	10	83,669	56,508	46,361	10,147	4,688	-	4,688
	11	85,666	60,291	51,318	8,973	5,038	-	5,038
2022 <sup>p</sup>	1-11	943,715	634,765	472,845	161,185	84,523	8,703	75,820
2023 <sup>p</sup>	1-11	915,881	660,417	448,342	212,076	65,441	651	64,790

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	
27,703	5,505	22,198	217,040	47,367	169,673	55.6	44.3	2022 <sup>p</sup>	
2,965	601	2,364	19,095	6,585	12,510	58.6	40.6	11	2021
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	58.4	40.8	1	2022 <sup>p</sup>
1,603	628	975	19,641	3,997	15,644	57.0	43.0	2	
2,459	626	1,832	17,664	1,962	15,703	63.2	36.8	3	
2,485	600	1,885	18,554	5,563	12,991	62.9	37.1	4	
3,398	601	2,796	15,288	4,334	10,954	60.5	39.5	5	
1,508	627	881	15,174	3,969	11,205	72.5	41.9	6	
2,043	-	2,043	19,309	3,986	15,323	68.2	47.5	7	
1,982	600	1,381	15,855	3,046	12,809	61.1	51.5	8	
4,154	572	3,582	15,687	3,903	11,784	50.9	49.1	9	
2,615	626	1,989	19,745	4,725	15,020	45.5	54.5	10	
1,483	-	1,483	18,481	3,805	14,676	52.8	47.2	11	
1,137	626	511	19,180	4,137	15,044	50.3	49.7	12	
1,067	626	440	18,365	1,971	16,394	48.5	51.5	1	2023 <sup>p</sup>
626	626	-	17,609	3,991	13,618	46.9	53.1	2	
3,017	627	2,390	14,350	1,994	12,356	45.7	54.3	3	
601	-	601	14,541	1,967	12,574	46.4	53.6	4	
600	600	-	15,627	1,997	13,630	43.6	56.4	5	
1,440	1,000	440	15,020	2,000	13,020	59.2	56.5	6	
440	-	440	16,286	1,994	14,293	65.2	52.3	7	
1,069	630	440	9,241	-	9,241	74.7	36.9	8	
1,042	1,042	-	16,273	5,970	10,303	68.3	31.7	9	
2,454	626	1,829	20,018	2,757	17,261	59.5	40.5	10	
1,460	1,041	419	18,878	3,040	15,838	64.7	35.3	11	
26,567	4,880	21,687	197,860	43,231	154,629	56.1	43.8	1-11	2022 <sup>p</sup>
13,815	6,817	6,999	176,207	27,680	148,527	52.8	47.2	1-11	2023 <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> Subtotal <sup>1</sup>	사우디아라비아 Saudi Arabia	아랍에미레이트 U.A.E	이란 Iran	쿠웨이트 Kuwait	오만 Oman	카타르 Qatar
		Total	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		960,147	574,430	281,774	56,809	-	101,721	6,574	50,610
2022 <sup>p</sup>		1,031,283	695,122	339,567	85,235	-	103,656	3,529	48,212
2021	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
	10	79,527	52,950	27,654	7,153	-	5,965	-	3,342
	11	82,947	56,870	28,702	5,706	-	8,454	-	3,627
	12	87,568	60,357	30,415	9,154	-	8,074	-	3,002
2023 <sup>p</sup>	1	81,634	55,819	27,833	5,754	-	8,363	-	4,820
	2	87,163	62,128	25,576	10,954	-	7,214	-	6,181
	3	91,780	65,085	30,381	8,340	-	9,158	-	6,192
	4	81,137	58,541	29,525	6,717	-	7,393	-	6,696
	5	85,788	60,844	24,294	10,691	-	7,914	-	8,938
	6	76,849	56,348	24,105	8,189	-	6,876	950	5,665
	7	81,760	58,631	27,926	5,790	-	9,182	1,002	6,143
	8	75,322	61,810	26,688	9,533	-	9,507	-	7,098
	9	85,115	64,413	29,628	12,201	-	8,131	-	6,016
	10	83,669	56,508	23,881	10,784	-	8,122	-	3,708
	11	85,666	60,291	27,593	10,306	-	6,827	2,008	2,993
2022 <sup>p</sup>	1-11	943,715	634,765	309,152	76,082	-	95,582	3,529	45,210
2023 <sup>p</sup>	1-11	915,881	660,417	297,429	99,260	-	88,688	3,959	64,451

1. 기타 국가 물량 포함.

2. 아프리카 국가는 나이지리아, 알제리, 가봉 등임.

3. 아메리카 국가는 미국, 캐나다, 멕시코, 브라질 등임.

4. 유럽 국가는 노르웨이, 영국 등임.

자료 : 한국석유공사-PEDSIS

## Crude Oil Imports by Country

아시아 Asia					아프리카 <sup>2</sup>	아메리카 <sup>3</sup>	유럽 <sup>4</sup>		
소계 <sup>1</sup>	인도네시아	말레이시아	호주	브루나이					
Subtotal <sup>1</sup>	Indonesia	Malaysia	Australia	Brunei	Africa <sup>2</sup>	America <sup>3</sup>	Europe <sup>4</sup>		
1,000 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	
91,418	-	649	20,668	581	27,703	204,604	12,436	2022 <sup>p</sup>	
8,550	-	-	2,017	-	2,965	18,048	1,047	11	2021
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	
4,217	-	-	-	-	2,615	18,977	768	10	
6,114	-	-	1,112	-	1,483	18,481	-	11	
6,895	-	-	1,600	-	1,137	19,180	-	12	
6,384	226	-	2,988	-	1,067	18,365	-	1	2023 <sup>p</sup>
6,800	-	-	1,972	-	626	17,609	-	2	
9,328	-	-	2,365	-	3,017	14,350	-	3	
7,454	-	-	2,620	-	601	13,814	727	4	
8,717	-	292	2,177	-	600	15,627	-	5	
4,041	-	-	1,959	-	1,440	15,020	-	6	
6,402	292	605	691	-	440	16,286	-	7	
3,202	-	-	1,130	-	1,069	9,241	-	8	
3,388	-	-	2,039	-	1,042	16,273	-	9	
4,688	259	-	2,017	-	2,454	18,919	1,100	10	
5,038	-	-	2,646	-	1,460	15,748	3,130	11	
84,523	-	649	19,068	581	26,567	185,423	12,436	1-11	2022 <sup>p</sup>
65,441	777	897	22,603	-	13,815	171,251	4,956	1-11	2023 <sup>p</sup>

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

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

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

4. Europe nations includes Norway, UK, etc.

Source: Korea National Oil Corporation-PEDSIS

## 5.4 석유정제 및 전환공정 투입

		석유정제 Petroleum Refining						
		원유 및 정제원료 투입	정제생산	프로판	부탄	휘발유	항공유	등유
		Petroleum Refining Inputs	Petroleum Products	Propane	Butane	Gasoline	Air Fuel	Kerosene
		1,000 bbl						
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		1,029,608	1,072,558	11,052	19,424	156,999	151,720	24,958
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		1,089,068	1,113,422	6,706	17,735	178,751	97,182	53,657
2022 <sup>p</sup>		1,155,425	1,189,404	2,224	17,488	183,838	122,855	47,659
2021	11	91,604	93,858	626	1,400	15,707	8,082	4,244
	12	97,671	100,677	489	1,369	16,685	8,139	5,758
2022 <sup>p</sup>	1	99,599	102,899	484	1,641	16,289	8,117	6,298
	2	89,389	92,167	127	1,301	14,717	8,149	5,067
	3	96,985	99,943	178	1,481	15,465	8,570	4,209
	4	91,387	94,008	207	1,502	13,865	10,429	3,576
	5	95,946	99,271	230	1,614	15,434	10,737	2,954
	6	91,203	93,970	345	1,382	15,241	9,941	2,127
	7	103,079	105,604	171	1,656	16,503	12,600	2,796
	8	103,049	106,119	98	1,735	16,088	12,532	3,642
	9	95,878	98,977	111	1,490	15,500	10,865	3,527
	10	94,235	96,624	-37	1,290	14,169	10,281	3,546
	11	96,016	98,231	132	1,101	14,580	10,354	4,751
	12	98,659	101,591	179	1,295	15,986	10,280	5,166
2023 <sup>p</sup>	1	97,024	99,943	162	1,179	15,540	9,504	5,896
	2	90,398	93,102	330	1,275	14,840	10,829	4,382
	3	97,319	100,029	220	1,843	14,510	12,598	3,029
	4	94,098	96,825	277	1,680	13,606	12,295	2,985
	5	102,390	106,210	330	2,105	15,627	12,999	3,444
	6	84,275	86,892	500	1,569	14,032	10,262	2,308
	7	94,895	97,914	467	1,532	15,391	11,547	3,175
	8	90,314	93,887	130	1,317	15,768	11,697	3,491
	9	94,360	96,442	247	1,304	16,472	11,649	3,209
	10	101,466	103,833	289	1,382	17,993	11,981	4,438
	11	99,640	101,793	343	1,333	17,345	12,139	4,680
2022 <sup>p</sup>	1-11	1,056,766	1,087,814	2,045	16,193	167,851	112,575	42,493
2023 <sup>p</sup>	1-11	1,046,180	1,076,870	3,295	16,518	171,123	127,500	41,038

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>								
경유 Diesel	중유 Fuel Oil	납사 Naphtha	기타 <sup>2</sup> Others <sup>2</sup>	발전전용	열병합	열전용		
				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
334,360	59,004	195,261	119,779	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
337,745	77,512	214,883	129,249	3,811	377	1,773		2021
363,454	93,575	224,504	133,807	4,056	967	1,683		2022 <sup>p</sup>
28,202	7,038	17,677	10,883	327	56	168	11	2021
29,710	8,086	19,144	11,298	234	88	291	12	
30,312	8,646	19,566	11,546	780	159	354	1	2022 <sup>p</sup>
27,607	7,467	17,014	10,718	398	162	294	2	
30,500	7,551	20,434	11,555	366	39	200	3	
27,495	7,256	18,710	10,967	237	16	143	4	
30,480	7,547	18,808	11,467	289	19	19	5	
29,327	5,633	18,662	11,314	277	73	39	6	
33,480	8,840	18,782	10,776	324	133	52	7	
33,393	8,104	19,408	11,118	331	116	23	8	
30,450	7,636	18,684	10,713	257	77	42	9	
30,611	7,964	17,777	11,024	243	96	110	10	
29,291	8,746	18,262	11,014	271	36	138	11	
30,507	8,186	18,397	11,594	281	41	270	12	
30,563	6,702	18,810	11,587	274	68	278	1	2023 <sup>p</sup>
27,497	6,398	17,101	10,450	208	49	233	2	
29,906	7,918	19,199	10,806	282	26	175	3	
28,189	7,262	19,813	10,720	250	22	110	4	
31,260	5,838	22,602	12,004	250	28	33	5	
26,137	5,457	16,781	9,845	212	20	12	6	
29,718	6,876	18,406	10,802	244	25	14	7	
28,720	6,032	15,765	10,967	185	21	26	8	
28,564	6,409	17,346	11,243	155	13	25	9	
30,658	6,681	18,792	11,619	232	67	71	10	
29,977	6,246	18,207	11,524	128	35	163	11	
332,947	85,389	206,107	122,213	3,775	927	1,413	1-11	2022 <sup>p</sup>
321,188	71,820	202,821	121,566	2,421	374	1,141	1-11	2023 <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  Imports	수출  Exports	국제병커링  International Bunkers	재고  Stock	일차에너지공급  TPES	정제생산  Refining Production
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	477,425	93,774	51,412	-265,370	1,072,558
2016		334,608	487,716	105,124	50,162	-255,629	1,118,794
2017		314,487	509,113	103,695	51,867	-299,983	1,185,996
2018		341,628	531,563	102,293	62,772	-303,132	1,207,900
2019		352,147	522,099	94,656	54,709	-256,545	1,196,345
2020		347,302	468,529	90,868	53,557	-210,942	1,112,863
2021		392,317	446,559	89,844	52,402	-142,976	1,113,422
2022 <sup>p</sup>		367,072	497,020	102,335	52,353	-232,234	1,189,404
2021	11	31,488	38,991	8,200	56,072	-14,338	93,858
	12	37,887	40,687	8,933	52,402	-8,063	100,677
2022 <sup>p</sup>	1	36,217	36,958	9,022	56,087	-13,449	102,899
	2	33,031	38,031	7,333	58,906	-15,153	92,167
	3	31,552	40,456	8,669	59,851	-18,517	99,943
	4	28,690	39,254	7,845	61,756	-20,314	94,008
	5	28,596	43,300	8,236	56,366	-17,551	99,271
	6	26,544	35,845	7,642	59,714	-20,292	93,970
	7	34,130	47,122	9,143	61,349	-23,771	105,604
	8	28,406	50,944	8,886	54,589	-24,663	106,119
	9	26,744	42,045	8,075	56,050	-24,838	98,977
	10	31,149	40,504	8,677	58,566	-20,548	96,624
	11	31,469	39,772	8,979	61,305	-20,021	98,231
	12	30,545	42,789	9,826	52,353	-13,118	101,591
2023 <sup>p</sup>	1	33,359	39,244	9,129	53,676	-16,337	99,943
	2	34,435	40,766	7,880	57,860	-18,395	93,102
	3	31,283	43,206	9,098	53,556	-16,717	100,029
	4	24,379	37,423	8,946	57,984	-26,418	96,825
	5	27,036	45,479	9,004	60,460	-29,922	106,210
	6	27,597	36,009	8,989	58,122	-15,065	86,892
	7	27,444	38,094	10,108	54,629	-17,266	97,914
	8	33,337	38,825	9,095	56,784	-16,739	93,887
	9	33,513	41,984	9,583	57,988	-19,258	96,442
	10	33,051	44,980	9,922	58,029	-21,891	103,833
	11	35,765	43,331	9,894	59,952	-19,383	101,793
2022 <sup>p</sup>	1-11	336,527	454,231	92,509	61,305	-219,116	1,087,814
2023 <sup>p</sup>	1-11	341,199	449,342	101,647	59,952	-217,390	1,076,870

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



## Petroleum Products Overview

소비 Consumption							
발전 및 열생산 투입 Power Generatoin & Others	에너지산업 자체소비 Energy Industry Own Use	최종소비					
		TFC	산업 Industry	수송 Transport	건물 <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	43,815	734,541	433,558	247,511	53,472	2015	
20,557	46,091	782,758	469,195	257,307	56,256	2016	
9,245	40,467	801,275	487,121	257,708	56,447	2017	
9,706	41,509	788,210	478,445	256,066	53,700	2018	
7,396	41,642	796,132	483,878	263,189	49,065	2019	
5,420	41,306	752,269	462,169	245,380	44,720	2020	
5,961	38,312	809,098	505,836	259,041	44,221	2021	
6,706	39,074	798,903	496,939	258,008	43,955	2022 <sup>p</sup>	
551	3,143	65,830	40,608	21,338	3,885	11	2021
613	3,411	78,229	47,940	24,730	5,559	12	
1,293	3,554	75,821	47,017	22,643	6,161	1	2022 <sup>p</sup>
853	3,270	64,486	39,889	19,224	5,373	2	
606	3,328	67,931	45,276	18,708	3,946	3	
396	2,958	63,313	43,016	17,626	2,671	4	
328	3,087	68,828	41,045	25,086	2,696	5	
389	3,124	59,277	38,217	18,900	2,160	6	
509	3,213	68,492	43,253	22,894	2,346	7	
471	3,459	69,315	41,517	25,219	2,580	8	
376	3,191	61,260	38,614	20,141	2,504	9	
449	3,147	62,862	36,970	22,334	3,559	10	
445	3,183	63,604	39,567	20,121	3,915	11	
592	3,559	73,714	42,558	25,112	6,044	12	
620	4,063	66,894	41,518	19,952	5,424	1	2023 <sup>p</sup>
490	3,745	60,568	37,558	18,401	4,609	2	
483	3,863	68,936	42,395	22,936	3,606	3	
382	3,556	58,396	36,712	18,588	3,096	4	
311	3,888	62,918	37,465	22,660	2,793	5	
244	3,128	58,821	35,733	20,832	2,256	6	
283	3,669	65,622	40,242	22,982	2,397	7	
232	3,465	63,361	40,304	20,464	2,593	8	
193	3,757	61,683	38,732	20,300	2,651	9	
370	3,899	62,632	38,898	20,326	3,408	10	
326	3,831	64,257	39,082	21,209	3,966	11	
6,114	35,515	725,190	454,381	232,897	37,912	1-11	2022 <sup>p</sup>
3,935	40,862	694,089	428,640	228,650	36,800	1-11	2023 <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	수출	재고	일차에너지 공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비				
		Imports	Exports	Stock	TPES	Refining Production	Power Generatin & Others	Energy Industry Own Use	TFC	산업 Industry	석유화학원료 Petrochemical feedstock	수송 Transport	건물 <sup>1</sup> 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	168	12	2,206
2000		3,248	427	153	2,849	881	-	263	3,460	1,043	574	6	2,410
2001		2,599	193	111	2,448	841	-	19	3,119	766	401	3	2,351
2002		3,057	128	204	2,835	778	0	15	3,385	974	606	8	2,403
2003		2,853	141	265	2,652	850	0	13	3,128	889	572	8	2,231
2004		2,641	41	317	2,547	891	0	13	2,893	903	626	7	1,983
2005		2,623	24	252	2,660	903	0	40	2,914	1,079	618	1	1,835
2006		2,590	32	262	2,548	905	0	31	2,945	1,130	650	1	1,815
2007		2,641	27	154	2,730	826	0	58	2,972	1,184	664	0	1,788
2008		2,510	21	123	2,521	1,047	0	46	2,806	1,229	704	2	1,574
2009		2,617	10	108	2,622	1,234	1	68	3,109	1,513	1,014	1	1,595
2010		2,845	74	113	2,766	1,385	0	69	3,161	1,607	1,011	1	1,553
2011		3,115	60	134	3,034	888	0	60	2,952	1,473	917	1	1,478
2012		2,982	126	115	2,875	1,013	0	93	2,718	1,332	730	1	1,384
2013		2,599	66	79	2,569	919	0	77	2,773	1,378	874	2	1,393
2014		2,606	85	230	2,371	926	0	50	2,705	1,432	920	1	1,272
2015		2,943	65	172	2,936	893	0	127	3,128	1,771	1,174	2	1,355
2016		4,559	117	176	4,438	657	0	140	4,401	2,950	2,226	3	1,449
2017		4,455	156	192	4,283	849	33	136	4,411	3,026	2,046	1	1,384
2018		4,810	315	258	4,429	737	21	80	4,521	3,103	2,362	1	1,417
2019		6,026	414	211	5,659	552	76	155	5,480	4,042	3,219	1	1,437
2020		6,537	471	261	6,016	381	67	173	5,706	4,272	3,423	1	1,432
2021		6,168	230	216	5,983	542	101	109	5,858	4,391	3,301	1	1,466
2022 <sup>p</sup>		6,934	49	282	6,819	180	182	183	6,314	4,794	3,973	1	1,518
2021	11	546	20	186	504	51	10	11	471	335	236	0	136
	12	691	22	216	639	39	17	17	586	428	345	0	157
2022 <sup>p</sup>	1	798	19	297	698	39	31	24	607	429	343	0	178
	2	659	4	237	715	10	31	24	599	425	344	0	173
	3	667	-	202	702	14	19	19	642	490	419	0	152
	4	554	-	232	524	17	9	7	566	453	404	0	112
	5	521	1	273	479	19	6	7	516	413	367	0	103
	6	358	0	219	412	28	10	8	446	361	317	0	85
	7	585	4	290	511	14	21	9	510	421	374	0	89
	8	479	4	278	488	8	20	17	436	348	292	0	88
	9	453	4	250	477	9	9	11	443	340	272	0	103
	10	519	4	261	504	-3	9	13	448	344	269	0	104
	11	647	2	301	605	11	9	19	520	374	294	0	145
	12	694	7	282	706	14	9	25	582	395	278	0	186
2023 <sup>p</sup>	1	685	4	255	709	13	11	24	557	393	286	0	164
	2	613	3	210	654	27	7	18	532	357	256	0	175
	3	632	2	276	565	18	9	18	494	365	277	0	129
	4	424	1	235	463	22	6	12	456	341	273	0	115
	5	443	3	223	453	27	3	13	465	353	300	0	112
	6	424	6	273	368	40	1	11	380	290	240	0	90
	7	415	1	266	421	38	2	12	433	342	259	0	91
	8	523	1	248	540	11	3	12	523	409	326	0	114
	9	504	1	271	479	20	2	14	471	373	298	0	98
	10	473	1	254	489	23	10	15	469	356	276	0	113
	11	554	2	287	519	28	7	13	467	332	238	0	135
2022 <sup>p</sup>	1-11	6,240	42	301	6,113	165	173	158	5,732	4,399	3,695	1	1,332
2023 <sup>p</sup>	1-11	5,690	25	287	5,660	266	61	163	5,247	3,911	3,029	1	1,335

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	에너지산업 자체소비	최종소비				
		Imports	Exports	Stock	TPES	Refining Production	Power Generatin & Others	Energy Industry Own Use	TFC	산업 Industry	석유화학원료 Petrochemical feedstock	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	185	1,484	6
2000		1,430	261	109	1,137	2,302	-	5	3,432	470	268	2,920	42
2001		1,460	224	105	1,240	2,659	-	5	3,910	538	323	3,342	31
2002		1,689	119	208	1,467	2,834	-	3	4,222	577	346	3,574	71
2003		1,422	106	194	1,330	2,738	-	3	4,347	538	332	3,733	76
2004		1,396	42	221	1,327	2,775	-	2	4,569	625	419	3,863	81
2005		1,583	38	180	1,585	2,655	0	3	4,679	560	427	3,963	156
2006		2,017	34	148	2,015	2,479	0	0	4,926	688	576	4,105	133
2007		2,342	19	105	2,366	2,390	0	1	5,215	726	609	4,366	123
2008		2,938	11	99	2,934	2,134	0	5	5,702	1,219	1,108	4,379	105
2009		3,106	0	82	3,122	1,942	-	1	5,730	1,140	1,023	4,499	91
2010		3,163	0	109	3,136	1,680	-	0	5,356	818	687	4,467	71
2011		3,252	15	132	3,213	1,306	-	0	5,038	675	570	4,248	114
2012		3,036	20	119	3,028	1,268	0	1	4,836	592	462	4,103	141
2013		3,106	3	86	3,136	1,324	1	4	4,984	841	698	4,010	133
2014		2,874	28	135	2,796	1,614	0	42	4,819	903	747	3,758	158
2015		2,415	40	140	2,370	1,785	1	9	4,341	472	315	3,715	154
2016		2,466	38	98	2,470	1,667	1	8	4,343	676	512	3,549	118
2017		1,666	44	146	1,574	2,153	1	10	3,987	504	354	3,323	160
2018		1,818	96	153	1,714	2,224	1	8	4,087	852	656	3,098	137
2019		1,792	63	106	1,777	2,042	1	7	3,961	811	651	3,051	99
2020		1,860	20	127	1,818	1,756	0	7	3,535	793	589	2,655	86
2021		1,887	37	113	1,865	1,630	0	6	3,374	727	589	2,565	83
2022 <sup>p</sup>		1,951	9	151	1,904	1,607	0	6	3,409	784	686	2,542	82
2021	11	113	1	96	125	129	0	1	261	39	29	215	7
	12	135	-	113	118	126	0	1	241	39	30	194	8
2022 <sup>p</sup>	1	172	-	149	136	151	0	0	292	71	62	211	11
	2	153	3	144	155	120	0	0	286	75	66	202	9
	3	126	2	127	141	136	0	0	284	78	69	198	7
	4	139	0	135	131	138	0	1	242	48	39	188	6
	5	231	1	178	187	148	0	0	316	81	70	229	6
	6	144	-	143	179	127	0	0	290	80	72	204	6
	7	195	0	173	165	152	0	0	303	63	55	234	7
	8	124	-	155	142	159	0	1	286	59	52	223	5
	9	179	2	156	176	137	0	1	291	63	55	222	6
	10	213	0	175	194	119	0	1	277	65	58	207	5
	11	142	0	147	170	101	0	1	287	65	56	215	7
	12	133	-	151	128	119	0	1	255	38	31	210	8
2023 <sup>p</sup>	1	103	-	131	123	108	0	0	241	38	27	193	10
	2	89	2	113	105	117	0	3	232	19	8	204	9
	3	146	3	200	57	169	0	3	230	28	16	194	7
	4	137	3	190	144	154	0	2	268	72	61	191	6
	5	128	3	236	78	194	0	0	259	52	42	201	6
	6	145	5	223	154	144	0	0	283	82	71	195	6
	7	186	4	194	211	141	0	0	342	125	116	210	6
	8	245	-	188	251	121	0	1	379	136	127	238	5
	9	217	2	184	218	120	0	1	319	107	98	207	5
	10	192	2	176	198	127	0	1	293	90	81	197	5
	11	181	-	204	152	122	0	1	281	89	79	186	6
2022 <sup>p</sup>	1-11	1,818	9	147	1,775	1,488	0	5	3,153	746	655	2,333	74
2023 <sup>p</sup>	1-11	1,768	23	204	1,692	1,518	0	13	3,126	839	727	2,216	70

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  Imports	수출  Exports	재고  Stock	일차에너지 공급  TPES	정제생산  Refining Production	발전 및 열생산 투입  Power Generatoin & Others	에너지산업 자체소비  Energy Industry Own Use	최종소비			
									TFC	산업	수송	건물 <sup>1</sup>
										Industry	Transport	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	24,960	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		48	15,639	866	-15,678	28,419	0	0	13,494	189	13,258	47
2022 <sup>p</sup>		14	15,952	929	-16,001	29,227	0	0	14,049	179	13,825	45
2021	11	0	1,496	992	-1,518	2,497	0	0	1,093	15	1,074	3
	12	-	1,637	866	-1,511	2,653	0	0	1,291	14	1,274	4
2022 <sup>p</sup>	1	-	1,363	1,005	-1,502	2,590	0	0	1,172	15	1,155	3
	2	-	1,473	911	-1,379	2,340	0	0	1,004	12	989	3
	3	-	1,483	1,034	-1,607	2,459	0	0	936	15	917	3
	4	-	1,367	1,060	-1,393	2,204	0	0	897	11	882	4
	5	-	1,264	888	-1,092	2,454	0	0	1,418	20	1,394	4
	6	-	1,314	1,043	-1,468	2,423	0	0	976	14	959	4
	7	3	1,498	840	-1,292	2,624	0	0	1,342	12	1,327	4
	8	-	1,315	762	-1,238	2,558	0	0	1,356	15	1,336	4
	9	3	1,229	909	-1,373	2,464	0	0	1,163	16	1,142	4
	10	7	1,208	896	-1,188	2,253	0	0	1,213	18	1,191	4
	11	-	1,221	977	-1,302	2,318	0	0	1,098	18	1,076	4
	12	0	1,217	929	-1,168	2,542	0	0	1,475	13	1,458	4
2023 <sup>p</sup>	1	-	1,406	920	-1,397	2,471	0	0	1,062	14	1,045	3
	2	-	1,383	944	-1,407	2,359	0	0	995	12	979	3
	3	-	1,218	824	-1,098	2,307	0	0	1,238	14	1,220	4
	4	25	850	1,154	-1,154	2,163	0	0	1,033	16	1,013	4
	5	-	1,441	946	-1,234	2,484	0	0	1,304	15	1,286	4
	6	-	1,190	837	-1,082	2,231	0	0	1,202	18	1,180	4
	7	-	1,137	784	-1,084	2,447	0	0	1,333	13	1,315	4
	8	103	1,243	939	-1,295	2,507	0	0	1,250	17	1,229	4
	9	-	1,476	959	-1,496	2,619	0	0	1,213	17	1,192	4
	10	-	1,705	940	-1,686	2,861	0	0	1,270	15	1,251	4
	11	-	1,496	937	-1,492	2,758	0	0	1,217	15	1,197	4
2022 <sup>p</sup>	1-11	14	14,735	977	-14,833	26,686	0	0	12,574	166	12,367	41
2023 <sup>p</sup>	1-11	128	14,545	937	-14,425	27,206	0	0	13,116	166	12,907	43

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	수출	국제항공 병커링	재고	일차에너지 공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
		Imports	Exports	International Aviation Bunkers	Stock	TPES	Refining Production	Power Generatin & Others	Energy Industry Own Use	TFC	산업 Industry	수송 Transport	건물 <sup>1</sup> 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		1	10,408	3,148	607	-13,372	15,450	-	-	2,469	1	1,920	549
2022 <sup>p</sup>		0	13,636	3,951	616	-17,596	19,532	-	0	2,481	1	1,914	566
2021	11	0	945	271	777	-1,067	1,285	-	-	205	0	162	44
	12	0	951	293	607	-1,074	1,294	-	-	184	0	154	30
2022 <sup>p</sup>	1	0	780	302	549	-1,025	1,290	-	-	248	0	202	45
	2	0	686	247	706	-1,089	1,296	-	-	214	0	159	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	0	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
	10	0	1,168	370	604	-1,478	1,635	-	-	224	0	176	48
	11	0	1,127	388	607	-1,518	1,646	-	-	191	0	142	49
	12	0	890	423	616	-1,322	1,634	-	-	183	0	137	46
2023 <sup>p</sup>	1	0	778	418	766	-1,346	1,511	-	-	200	0	162	37
	2	0	1,238	382	769	-1,623	1,722	-	-	156	0	116	40
	3	0	1,767	416	517	-1,931	2,003	-	-	182	0	140	42
	4	0	1,220	446	659	-1,808	1,955	-	-	200	0	132	69
	5	0	1,271	489	834	-1,935	2,067	-	-	164	0	123	41
	6	0	1,052	563	724	-1,504	1,632	-	-	91	0	57	34
	7	0	1,363	616	554	-1,808	1,836	-	-	104	0	71	33
	8	48	1,221	617	617	-1,854	1,860	-	-	93	0	58	35
	9	0	1,294	602	704	-1,982	1,852	-	-	79	0	46	33
	10	0	1,205	619	634	-1,755	1,905	-	-	97	0	33	64
	11	0	1,083	620	820	-1,889	1,930	-	-	73	0	39	33
2022 <sup>p</sup> 1-11		0	12,746	3,528	607	-16,274	17,898	-	0	2,298	1	1,776	521
2023 <sup>p</sup> 1-11		48	13,493	5,788	820	-19,437	20,270	-	-	1,439	1	977	461

1. 가정, 상업, 공공부문 합계

1. Sum of residential, commercial and public sector

주: 항공회발유, 휘발유형항공유, 등유형항공유의 합계

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

자료: 한국석유공사-PEDSIS

Source: Korea National Oil Corporation-PEDSIS

## 5.5.5 등유

## Kerosene

		공급 Supply					소비 Consumption					
		수입  Imports	수출  Exports	재고  Stock	일차에너지 공급  TPES	정제생산  Refining Production	발전 및 열생산 투입  Power Generatoin & Others	에너지산업 자체소비  Energy Industry Own Use	최종소비			
									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	3,968	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		34	1,252	314	-1,279	8,531	189	1	2,622	363	6	2,253
2022 <sup>p</sup>		6	797	253	-730	7,577	232	0	2,456	332	5	2,119
2021	11	-	138	365	-143	675	20	0	229	30	0	199
	12	19	218	314	-147	915	16	0	471	62	1	408
2022 <sup>p</sup>	1	6	185	341	-205	1,001	20	0	521	67	1	454
	2	-	131	309	-99	806	17	0	393	50	1	342
	3	-	51	341	-84	669	16	0	178	24	1	154
	4	-	29	371	-59	569	17	0	78	11	0	67
	5	-	30	315	26	470	22	0	70	10	0	60
	6	-	-	306	9	338	21	0	50	8	0	42
	7	-	4	319	-18	445	19	0	46	8	0	37
	8	-	6	268	45	579	22	0	120	19	0	100
	9	-	47	324	-104	561	21	0	88	12	0	76
	10	-	15	306	4	564	20	0	230	30	0	199
	11	-	47	369	-110	755	20	0	196	27	0	169
	12	-	252	253	-136	821	18	0	485	65	1	419
2023 <sup>p</sup>	1	-	104	317	-169	937	21	0	421	55	1	365
	2	-	67	371	-121	697	21	0	257	34	0	223
	3	1	12	311	49	482	21	0	167	21	1	145
	4	-	-	292	19	475	19	0	102	13	0	88
	5	-	71	320	-99	548	23	0	82	11	0	71
	6	-	64	296	-40	367	23	0	52	9	0	43
	7	-	11	300	-14	505	29	0	68	12	0	56
	8	-	11	304	-16	555	20	0	63	10	0	52
	9	-	33	315	-44	510	18	0	101	15	0	86
	10	-	68	326	-79	706	24	0	177	23	0	153
	11	1	79	329	-81	744	17	0	245	32	0	212
2022 <sup>p</sup>	1-11	6	545	369	-594	6,756	215	0	1,971	267	5	1,700
2023 <sup>p</sup>	1-11	2	519	329	-594	6,524	236	0	1,734	235	4	1,494

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  Imports	수출  Exports	재고  Stock	일차에너지 공급  TPES	정제생산  Refining Production	발전 및 열생산 투입  Power Generatoin & Others	에너지산업 자체소비  Energy Industry Own Use	최종소비			
									TFC	산업	수송	건물 <sup>1</sup>
										Industry	Transport	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	79	7	20,090	3,987	14,031	2,072
2001		1,062	14,379	1,416	-14,376	34,808	46	7	20,596	4,001	14,732	1,864
2002		2,055	12,120	1,130	-11,019	32,661	110	6	21,514	3,687	16,080	1,748
2003		1,771	9,669	1,162	-9,220	31,899	367	6	22,455	3,359	17,219	1,877
2004		682	10,817	1,423	-11,694	34,216	31	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	-28,830	53,158	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	15	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		0	28,756	1,295	-30,878	53,696	98	2	24,852	2,468	21,314	1,070
2022 <sup>p</sup>		48	32,358	1,379	-34,843	57,783	153	2	24,131	2,471	20,606	1,055
2021	11	-	2,389	1,497	-2,569	4,484	8	0	2,045	195	1,763	86
	12	-	2,342	1,295	-2,363	4,723	4	0	2,455	203	2,142	110
2022 <sup>p</sup>	1	-	2,354	1,447	-2,728	4,819	10	0	2,195	251	1,847	97
	2	-	2,438	1,532	-2,709	4,389	14	0	1,806	177	1,539	90
	3	-	2,608	1,924	-3,192	4,849	13	0	1,829	196	1,531	101
	4	-	2,655	1,838	-2,772	4,371	9	0	1,713	163	1,466	85
	5	-	2,857	1,316	-2,526	4,846	12	0	2,360	221	2,041	98
	6	48	2,208	1,924	-2,947	4,663	16	0	1,757	194	1,491	72
	7	-	3,165	1,980	-3,434	5,323	15	0	1,943	139	1,738	66
	8	-	3,252	1,620	-3,104	5,309	9	0	2,360	221	2,058	82
	9	-	2,698	1,814	-3,090	4,841	14	0	1,812	261	1,484	68
	10	-	2,640	1,650	-2,702	4,867	14	0	2,142	243	1,804	95
	11	-	2,547	1,844	-2,957	4,657	14	0	1,881	194	1,590	98
	12	-	2,936	1,379	-2,682	4,850	15	0	2,332	212	2,016	104
2023 <sup>p</sup>	1	-	2,597	1,633	-3,069	4,859	19	30	1,886	167	1,611	108
	2	-	2,505	1,739	-2,790	4,372	9	30	1,706	153	1,453	100
	3	-	2,554	1,561	-2,588	4,755	14	35	2,249	213	1,926	110
	4	-	2,364	1,949	-2,947	4,482	13	32	1,709	165	1,458	86
	5	-	3,061	1,702	-2,992	4,970	13	38	2,106	185	1,827	94
	6	-	2,178	1,480	-2,144	4,155	10	37	2,010	213	1,714	83
	7	-	2,455	1,481	-2,648	4,725	9	37	2,198	229	1,880	89
	8	-	2,454	1,712	-2,847	4,566	7	32	1,812	206	1,531	75
	9	-	2,571	1,768	-2,797	4,541	6	30	1,885	184	1,610	90
	10	-	2,844	1,883	-3,136	4,874	7	28	1,825	156	1,586	83
	11	-	2,928	1,600	-2,813	4,766	3	35	2,084	195	1,790	99
2022 <sup>p</sup>	1-11	48	29,422	1,844	-32,162	52,933	139	2	21,799	2,259	18,590	951
2023 <sup>p</sup>	1-11	-	28,511	1,600	-30,772	51,064	111	364	21,470	2,067	18,386	1,018

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	국제해운 병커링	재고	일차에너지 공급	정제생산	발전 및 열생산 투입	에너지산업 자체소비	최종소비			
		Imports	Exports	International Marine Bunkers	Stock	TPES	Refining Production	Power Generatoin & Others	Energy Industry Own Use	TFC	산업 Industry	수송 Transport	건물 <sup>1</sup> 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	-2,930	9,381	2,009	1,361	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		5,920	1,404	9,113	1,550	-4,763	12,323	462	114	1,018	723	248	48
2022 <sup>p</sup>		3,307	2,031	9,870	1,440	-8,484	14,877	321	97	1,065	754	269	42
2021	11	478	118	830	1,540	-446	1,119	41	13	77	54	20	3
	12	529	245	904	1,550	-631	1,285	42	12	102	70	25	6
2022 <sup>p</sup>	1	454	237	910	1,567	-709	1,375	115	10	118	80	30	8
	2	523	164	733	1,763	-570	1,187	44	11	88	65	18	5
	3	242	146	890	1,497	-529	1,201	30	9	103	72	27	4
	4	240	124	780	1,578	-744	1,154	18	9	80	58	20	2
	5	299	42	790	1,578	-532	1,200	7	12	97	69	26	2
	6	475	49	736	1,413	-146	895	6	6	92	64	26	2
	7	154	171	916	1,416	-935	1,405	6	9	66	46	18	2
	8	159	392	853	1,270	-941	1,288	6	9	76	51	22	2
	9	176	161	727	1,400	-842	1,214	7	8	89	60	26	3
	10	311	160	784	1,705	-938	1,266	19	5	84	60	21	3
	11	166	122	824	1,804	-879	1,391	20	3	78	57	18	3
	12	109	264	929	1,440	-719	1,301	44	5	94	71	17	6
2023 <sup>p</sup>	1	319	143	815	1,356	-554	1,066	38	10	103	76	19	8
	2	287	86	692	1,381	-516	1,017	34	6	96	67	24	5
	3	250	93	818	1,456	-735	1,259	23	9	106	77	24	4
	4	268	63	780	1,580	-700	1,154	18	8	101	73	22	6
	5	453	86	764	1,613	-430	928	7	6	78	58	19	1
	6	364	91	680	1,436	-230	868	3	6	97	71	22	4
	7	603	66	799	1,595	-420	1,093	3	6	91	64	23	4
	8	514	52	667	1,515	-125	959	3	8	103	69	25	8
	9	647	52	752	1,609	-250	1,019	3	9	76	51	22	3
	10	548	50	780	1,600	-273	1,062	9	7	84	62	19	3
	11	533	56	785	1,623	-331	993	18	7	78	54	22	3
2022 <sup>p</sup> 1-11		3,198	1,768	8,941	1,804	-7,765	13,576	277	92	971	683	252	36
2023 <sup>p</sup> 1-11		4,788	838	8,333	1,623	-4,566	11,418	159	82	1,013	724	241	49

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  Imports	수출  Exports	재고  Stock	일차에너지 공급  TPES	정제생산  Petroleum Products	발전 및 열생산 투입  Power Generatoin & Others	에너지산업 자체소비  Energy Industry Own Use	최종소비			
									TFC	산업	수송	건물 <sup>1</sup>
										Industry	Transport	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	21,242	-	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		27,557	3,394	1,581	24,421	23,377	-	-	40,243	40,243	-	-
2022 <sup>a</sup>		25,740	3,693	1,464	22,164	24,423	-	-	38,727	38,727	-	-
2021	11	2,165	267	1,636	1,940	1,923	-	-	3,233	3,233	-	-
	12	2,646	238	1,581	2,464	2,083	-	-	3,862	3,862	-	-
2022 <sup>a</sup>	1	2,274	158	1,609	2,089	2,129	-	-	3,679	3,679	-	-
	2	2,151	278	1,843	1,639	1,851	-	-	3,039	3,039	-	-
	3	2,206	217	1,934	1,899	2,223	-	-	3,483	3,483	-	-
	4	2,021	166	1,864	1,925	2,035	-	-	3,428	3,428	-	-
	5	1,911	291	1,910	1,574	2,046	-	-	3,115	3,115	-	-
	6	1,871	269	1,910	1,601	2,030	-	-	2,954	2,954	-	-
	7	2,562	416	1,925	2,131	2,043	-	-	3,499	3,499	-	-
	8	2,176	405	1,819	1,877	2,111	-	-	3,316	3,316	-	-
	9	1,941	376	1,636	1,748	2,033	-	-	3,027	3,027	-	-
	10	2,220	383	1,805	1,668	1,934	-	-	2,800	2,800	-	-
	11	2,258	355	1,802	1,906	1,987	-	-	3,048	3,048	-	-
	12	2,148	379	1,464	2,107	2,001	-	-	3,338	3,338	-	-
2023 <sup>a</sup>	1	2,358	270	1,419	2,133	2,046	-	-	3,345	3,345	-	-
	2	2,613	288	1,886	1,858	1,860	-	-	3,020	3,020	-	-
	3	2,195	304	1,634	2,143	2,089	-	-	3,471	3,471	-	-
	4	1,708	465	1,542	1,335	2,155	-	-	2,888	2,888	-	-
	5	1,881	387	1,869	1,168	2,459	-	-	2,925	2,925	-	-
	6	1,995	361	2,037	1,466	1,826	-	-	2,755	2,755	-	-
	7	1,784	322	1,695	1,803	2,002	-	-	3,092	3,092	-	-
	8	2,165	388	1,690	1,782	1,715	-	-	3,005	3,005	-	-
	9	2,257	384	1,598	1,965	1,887	-	-	2,966	2,966	-	-
	10	2,341	357	1,637	1,945	2,044	-	-	3,017	3,017	-	-
	11	2,554	455	1,754	1,982	1,981	-	-	3,009	3,009	-	-
2022 <sup>a</sup> 1-11	23,592	3,314	1,802	20,056	22,422	-	-	35,389	35,389	-	-	
2023 <sup>a</sup> 1-11	23,852	3,982	1,754	19,580	22,065	-	-	33,493	33,493	-	-	

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

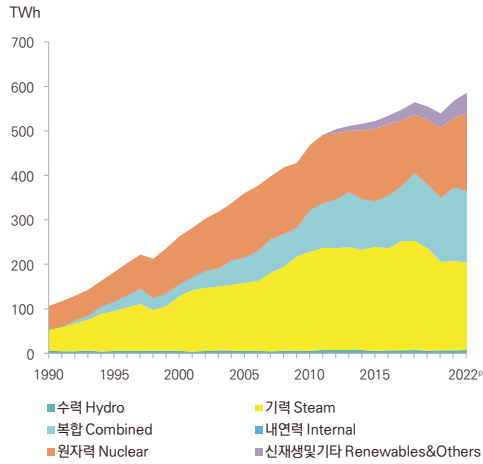
1. Sum of residential, commercial and public sector  
Source: Korea National Oil Corporation-PEDSIS



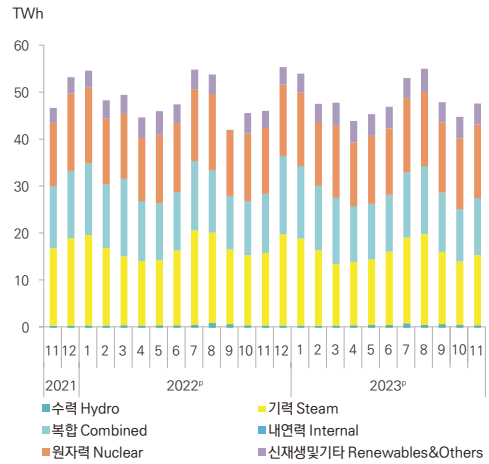


## ● 발전 설비별 발전량 Power Generation Amount by Generating Facility

〈1990~2022<sup>p</sup>〉

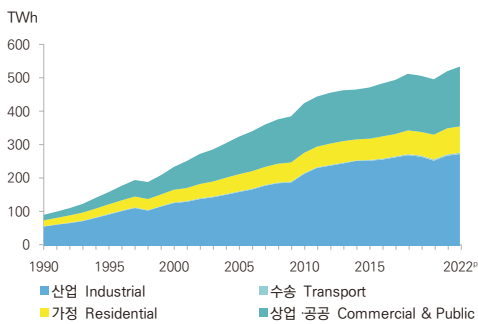


〈월별 Monthly〉

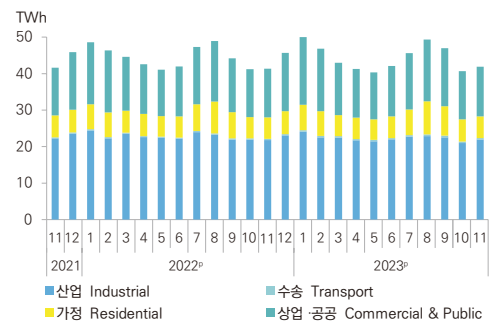


## ● 부문별 전력 소비 Electricity Consumption by Sector

〈1990~2022<sup>p</sup>〉

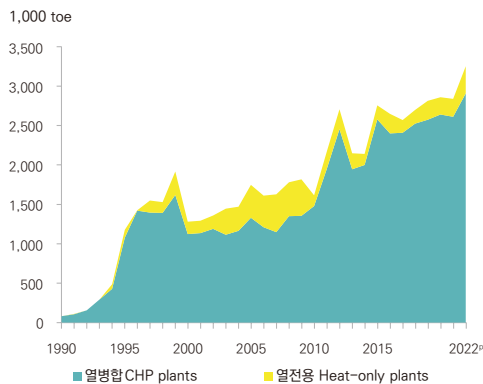


〈월별 Monthly〉



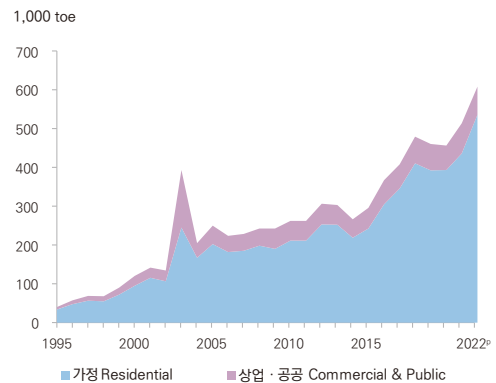
## ● 전환과정 내 열 생산 Heat Production in the Transformation Processes

〈1990~2022<sup>p</sup>〉



## ● 열 소비 Heat Consumption

〈1990~2022<sup>p</sup>〉



## 6.1 발전 현황

## Electricity Overview

		총발전량 Total power generation amount	설비용량 <sup>1</sup> Power plant capacity <sup>1</sup>	공급능력 <sup>1</sup> Supply capability <sup>1</sup>	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	80,153	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	92,395	85,183	61,694	8.4	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	122,973	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		576,809	131,330	100,739	91,141	65,846	10.5	72.2
2022 <sup>p</sup>		594,400	137,938	105,628	94,509	67,854	11.8	71.8
2021	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	55,027	134,239	99,716	92,990	73,962	7.2	79.5
	8	53,964	134,417	100,691	89,263	72,532	12.8	81.3
	9	46,308	134,719	91,923	82,122	64,317	11.9	78.3
	10	45,742	134,768	86,098	72,544	61,481	18.7	84.7
	11	46,223	136,268	92,682	82,117	64,199	12.9	78.2
	12	55,570	137,938	105,628	94,509	74,692	11.8	79.0
2023 <sup>p</sup>	1	54,173	138,399	103,138	92,613	72,814	11.4	78.6
	2	47,738	138,647	101,103	84,290	71,039	19.9	84.3
	3	47,934	138,860	97,952	76,510	64,428	28.0	84.2
	4	44,076	139,079	84,179	72,292	61,216	16.4	84.7
	5	45,541	140,240	82,332	72,772	61,211	13.1	84.1
	6	47,110	140,955	93,562	82,196	65,431	13.8	79.6
	7	53,247	142,201	102,234	87,033	71,568	17.5	82.2
	8	55,203	142,567	104,297	93,615	74,198	11.4	79.3
	9	48,080	143,401	99,391	85,682	66,778	16.0	77.9
	10	44,962	143,712	85,738	70,985	60,432	20.8	85.1
	11	47,772	144,063	96,366	82,716	66,350	16.5	80.2
2022 <sup>p</sup>	1-11	538,830	136,268	92,682	82,117	64,199	12.9	78.2
2023 <sup>p</sup>	1-11	535,835	144,063	96,366	82,716	66,350	16.5	80.2

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		134,020	6,541	40,305	40,217	177	23,250	23,014	515
2022 <sup>p</sup>		138,195	6,513	39,895	40,217	137	24,650	26,326	457
2021	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
	10	136,031	6,511	39,895	40,217	137	23,250	25,565	456
	11	136,270	6,513	39,895	40,217	137	23,250	25,801	457
	12	138,195	6,513	39,895	40,217	137	24,650	26,326	457
2023 <sup>p</sup>	1	138,817	6,513	39,891	40,217	137	24,650	26,952	457
	2	138,866	6,513	39,891	40,217	137	24,650	27,001	457
	3	139,079	6,513	39,891	40,217	137	24,650	27,214	457
	4	139,147	6,512	39,833	40,217	137	24,650	27,342	457
	5	140,758	6,512	40,873	40,712	137	24,650	27,418	457
	6	140,955	6,512	40,873	40,712	137	24,650	27,618	454
	7	142,567	6,512	40,873	42,088	137	24,650	27,857	452
	8	143,401	6,512	40,932	42,207	137	24,650	28,383	580
	9	143,486	6,512	40,932	42,207	137	24,650	28,591	458
	10	143,770	6,517	40,932	42,207	137	24,650	28,870	457
	11	144,070	6,517	40,873	42,207	137	24,650	29,228	459
2022 <sup>p</sup>	1-11	136,270	6,513	39,895	40,217	137	23,250	25,801	457
2023 <sup>p</sup>	1-11	144,070	6,517	40,873	42,207	137	24,650	29,228	459

1. 중류탑페열, 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

### 6.3 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		576,809	6,737	202,657	167,024	491	158,015	39,102	2,783
2022²		594,400	7,256	199,031	162,204	570	176,054	47,266	2,019
2021	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
2022²	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	55,027	686	20,077	14,682	63	15,355	4,022	143
	8	53,964	1,024	19,273	13,179	47	16,309	3,962	170
	9	46,308	803	15,913	11,347	32	14,094	3,972	148
	10	45,742	576	14,928	11,410	40	14,382	4,188	218
	11	46,223	524	15,457	12,550	35	14,006	3,504	146
	12	55,570	510	19,418	16,658	45	15,229	3,532	178
2023³	1	54,173	518	18,500	15,392	40	15,655	3,877	190
	2	47,738	428	16,076	13,688	34	13,606	3,710	196
	3	47,934	526	13,059	14,206	34	15,198	4,642	269
	4	44,076	551	13,481	11,860	33	13,570	4,383	197
	5	45,541	663	13,920	11,831	37	14,458	4,445	187
	6	47,110	596	15,637	12,057	25	14,167	4,451	178
	7	53,247	952	18,289	13,851	32	15,821	4,092	209
	8	55,203	686	19,238	14,469	35	15,875	4,690	210
	9	48,080	780	15,385	12,600	29	14,989	4,070	227
	10	44,962	662	13,517	11,032	31	15,135	4,386	198
	11	47,772	563	14,935	12,096	26	15,718	4,274	159
2022²	1-11	538,830	6,746	179,613	145,546	525	160,825	43,734	1,841
2023³	1-11	535,835	6,926	172,037	143,082	358	164,194	47,020	2,219

1. 중류탑페열, 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	무연탄	유연탄	합계	중유	경유	LNG
		Total	Anthracite	Bituminous	Total	Fuel oil	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		67,778	900	66,878	498	291	207	12,462
2022 <sup>p</sup>		66,087	885	65,202	375	114	261	10,707
2021								
	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
	10	4,788	85	4,704	25	3	22	850
	11	4,872	63	4,810	24	2	22	861
	12	6,303	122	6,181	28	3	25	1,171
2023 <sup>p</sup>								
	1	6,005	120	5,884	27	3	24	995
	2	5,478	121	5,357	26	2	24	951
	3	4,206	92	4,113	27	2	25	797
	4	4,159	12	4,147	24	2	22	723
	5	4,325	32	4,293	31	3	28	644
	6	4,925	58	4,867	26	0	26	753
	7	5,860	62	5,798	30	1	29	824
	8	6,258	116	6,142	23	1	22	863
	9	4,743	113	4,630	21	0	21	739
	10	4,299	78	4,220	24	1	22	671
	11	4,505	36	4,469	18	-	18	629
2022 <sup>p</sup>	1-11	59,784	763	59,021	347	111	236	9,536
2023 <sup>p</sup>	1-11	54,761	840	53,921	275	14	260	8,589

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		24,523	23,878	646	533,431	115,457	417,974
2022 <sup>p</sup>		24,866	24,170	696	547,933	118,406	429,526
2021	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	50,443	12,053	38,389
	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
	10	24,729	24,044	685	42,343	8,300	34,043
	11	25,316	24,624	691	42,491	9,070	33,421
	12	24,866	24,170	696	46,928	10,118	36,810
2023 <sup>p</sup>	1	24,806	24,105	700	51,241	12,492	38,749
	2	24,826	24,122	704	47,875	11,987	35,888
	3	25,388	24,680	708	44,095	9,392	34,702
	4	24,955	24,243	712	42,301	8,743	33,558
	5	24,891	24,176	715	41,426	7,953	33,473
	6	24,903	24,185	718	43,010	8,342	34,667
	7	24,947	24,226	721	46,658	9,297	37,361
	8	24,963	24,238	725	50,434	11,395	39,039
	9	24,986	24,258	728	48,056	10,730	37,326
	10	25,001	24,269	732	41,750	8,336	33,414
	11	25,582	24,845	737	42,906	8,839	34,067
2022 <sup>p</sup>	1-11	25,316	24,624	691	501,645	108,289	393,357
2023 <sup>p</sup>	1-11	25,582	24,845	737	499,750	107,506	392,245

자료: 한국전력공사-전력통계월보

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	Industry <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		495,186	264,067	47,710	35,524	79,986	100,847	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		496,890	254,749	49,520	26,452	82,634	96,143	3,315	2,899	416	74,074	164,752
2021		520,326	269,561	53,405	25,906	89,539	100,711	3,701	2,996	705	77,558	169,506
2022 <sup>p</sup>		535,339	274,069	53,422	25,902	92,551	102,195	4,025	2,751	1,274	78,557	178,687
2021	11	41,712	22,300	4,300	2,186	7,285	8,529	316	240	76	5,989	13,107
	12	45,996	23,593	4,619	2,314	7,728	8,931	355	268	87	6,218	15,830
2022 <sup>p</sup>	1	48,713	24,498	4,741	2,363	7,972	9,423	344	257	87	6,860	17,011
	2	46,502	22,321	4,279	1,980	7,306	8,756	319	229	90	6,833	17,030
	3	44,695	23,583	4,623	2,371	7,735	8,854	302	212	90	6,027	14,783
	4	42,716	22,635	4,449	2,266	7,505	8,415	298	203	95	6,097	13,685
	5	41,206	22,509	4,462	2,477	7,552	8,018	309	210	99	5,607	12,781
	6	42,066	22,235	4,486	2,147	7,438	8,164	322	218	104	5,810	13,698
	7	47,434	24,001	4,768	2,250	8,377	8,606	362	253	109	7,335	15,736
	8	49,085	23,329	4,650	2,095	8,043	8,541	381	267	114	8,721	16,654
	9	44,334	21,980	4,311	1,880	7,612	8,177	348	234	114	7,184	14,821
	10	41,313	22,002	4,382	2,050	7,581	7,989	330	210	120	5,864	13,117
	11	41,456	21,847	3,748	1,987	7,573	8,539	345	219	125	5,923	13,342
	12	45,819	23,129	4,523	2,035	7,858	8,713	366	238	128	6,297	16,027
2023 <sup>p</sup>	1	50,152	24,186	4,600	2,295	8,003	9,288	392	257	136	6,992	18,582
	2	46,948	22,628	4,283	1,869	7,664	8,812	370	230	139	6,796	17,155
	3	43,112	22,552	4,441	2,146	7,461	8,504	354	207	147	5,788	14,419
	4	41,400	21,767	4,327	2,081	7,270	8,088	350	198	152	5,936	13,347
	5	40,457	21,522	4,354	2,198	7,194	7,776	367	210	157	5,675	12,892
	6	42,229	22,031	4,412	1,999	7,581	8,038	381	220	161	5,952	13,865
	7	45,721	22,807	4,680	2,006	7,896	8,225	414	248	166	7,036	15,464
	8	49,504	22,941	4,621	1,917	7,930	8,473	441	271	170	9,131	16,991
	9	47,096	22,616	4,582	1,884	7,708	8,442	425	251	174	8,086	15,970
	10	40,773	21,026	4,271	2,015	7,089	7,651	391	212	179	6,109	13,247
	11	41,993	21,971	4,307	1,961	7,370	8,333	408	224	185	5,984	13,629
2022 <sup>p</sup>	1-11	489,520	250,941	48,899	23,867	84,693	93,482	3,659	2,513	1,146	72,260	162,660
2023 <sup>p</sup>	1-11	489,386	246,046	48,879	22,370	83,167	91,631	4,293	2,527	1,766	73,486	165,560

1. 농림어업, 광·제조업, 건설업 포함.

1. Includes Agri.Fishery, Mining, Manufacturing, and Construction Sectors

## 6.7 열에너지(지역난방) 수급

## Heat Overview

		전환공정 <sup>1</sup>			최종소비		
		Transformation processes <sup>1</sup>	열병합	열전용	TFC	가정	상업·공공
			CHP plants	Heat-only plants		Residential	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		2,762	2,602	227	2,701	2,265	435
2022 <sup>p</sup>		3,168	2,899	344	2,872	2,337	535
2021	11	294	282	19	266	235	30
	12	472	443	34	462	403	60
2022 <sup>p</sup>	1	593	535	66	537	459	78
	2	516	461	60	462	397	66
	3	389	366	30	321	280	41
	4	179	161	24	165	145	21
	5	103	98	10	109	86	23
	6	81	76	11	95	57	38
	7	100	96	10	97	46	51
	8	99	90	15	94	45	49
	9	90	76	20	85	53	32
	10	172	162	15	148	122	26
	11	276	266	15	226	196	30
	12	572	511	67	532	452	80
2023 <sup>p</sup>	1	555	491	71	525	447	78
	2	407	386	27	376	322	54
	3	289	277	18	253	219	34
	4	182	174	13	152	133	19
	5	122	117	10	110	85	25
	6	71	71	7	94	54	40
	7	95	96	6	100	48	52
	8	91	88	10	93	38	55
	9	68	71	3	81	44	38
	10	122	120	7	118	96	22
	11	328	307	26	276	235	41
2022 <sup>p</sup>	1-11	2,596	2,388	276	2,340	1,885	455
2023 <sup>p</sup>	1-11	2,329	2,197	199	2,178	1,719	459

1. 전환공정 내 열생산량에서 발전용 열투입량 차감

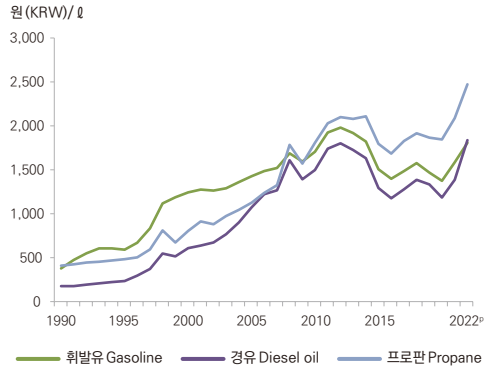
1. Subtracting the heat input for power generation from heat production in the transformation processes



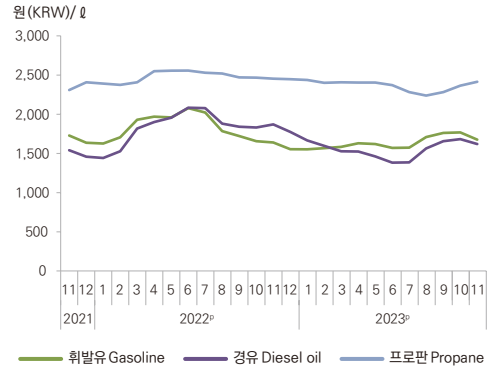


## ● 석유 소비자 가격 Consumer Prices by Petroleum Product

〈1990~2022<sup>p</sup>〉

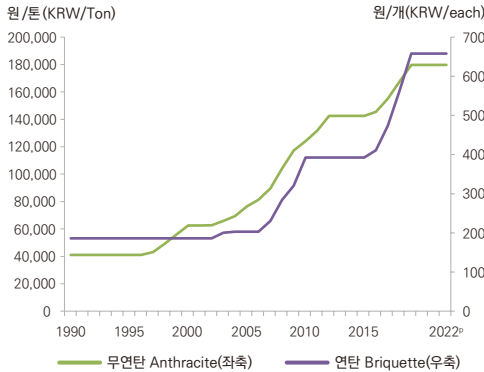


〈월별 Monthly〉



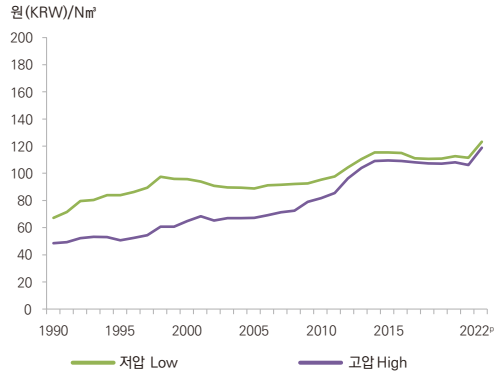
## ● 석탄 가격 Coal Prices

〈1990~2022<sup>p</sup>〉



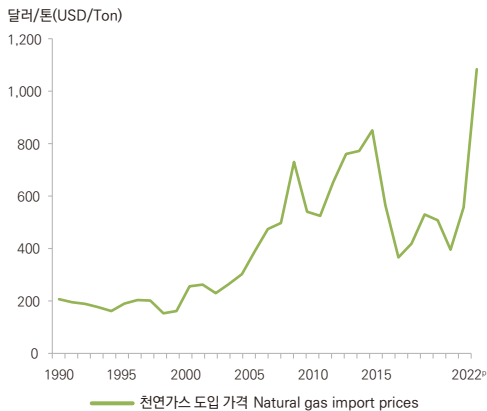
## ● 전력 가격 Electricity Prices

〈1990~2022<sup>p</sup>〉



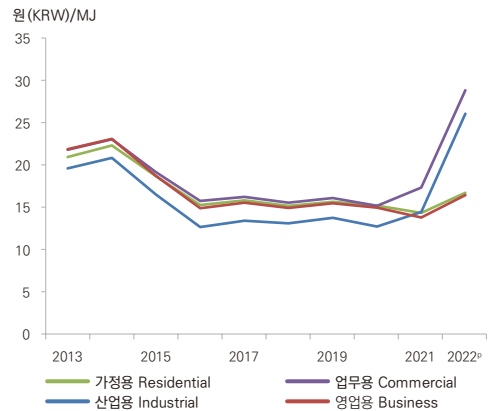
## ● 액화천연가스 도입 단가 LNG Import Prices

〈1990~2022<sup>p</sup>〉



## ● 도시가스 가격 City Gas Prices

〈2013~2022<sup>p</sup>〉



## 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		70.5	70.6	71.3	73.1	69.8	68.4
2022 <sup>p</sup>		102.2	102.2	102.1	106.2	101.1	108.5
2021	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	82.2	83.2	83.2	79.1	79.4	79.0
	2	91.5	91.4	92.1	91.8	90.3	100.9
	3	103.1	104.5	99.8	102.3	100.4	-
	4	110.2	110.1	113.6	120.3	105.0	123.3
	5	110.1	110.3	110.4	112.8	108.1	109.8
	6	117.0	117.7	114.9	116.6	116.6	114.3
	7	115.6	115.0	115.0	126.4	116.8	116.1
	8	107.6	106.2	107.9	113.4	113.1	-
	9	104.7	104.5	97.6	109.8	105.4	106.4
	10	100.9	100.7	95.9	104.7	102.8	85.4
	11	94.8	94.3	94.3	94.1	96.8	-
	12	89.5	88.4	91.9	95.0	92.0	-
2023 <sup>p</sup>	1	86.1	84.6	84.2	88.2	91.1	-
	2	85.7	85.7	82.8	88.8	86.9	-
	3	84.2	83.7	83.1	86.6	86.9	-
	4	84.1	84.5	82.2	86.7	83.6	85.2
	5	84.5	83.9	85.6	93.1	85.9	-
	6	79.0	78.6	76.0	79.1	81.3	-
	7	80.2	80.8	76.3	73.2	79.7	-
	8	84.9	85.6	83.2	82.9	80.7	-
	9	90.3	92.2	86.6	90.9	83.3	-
	10	94.8	94.7	94.0	95.0	94.9	101.1
	11	92.0	91.4	89.1	94.8	94.0	97.3
2022 <sup>p</sup>	1-11	103.4	103.6	102.9	106.6	102.0	108.5
2023 <sup>p</sup>	1-11	86.1	86.0	83.7	88.3	86.7	94.8

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		84.0	103.5	78.5	69.6	54.1	71.1
2022 <sup>p</sup>		150.8	113.5	90.8	92.2	66.2	88.7
2021	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
	10	144.2	-	-	80.8	62.3	74.6
	11	-	-	-	81.3	58.6	76.2
	12	533.4	-	-	74.1	65.4	77.7
2023 <sup>p</sup>	1	-	-	-	74.8	61.0	74.2
	2	-	-	-	73.2	66.7	76.0
	3	-	-	114.5	79.9	65.0	79.8
	4	124.5	-	-	79.9	62.6	77.5
	5	-	-	-	76.4	57.1	75.1
	6	-	-	-	75.0	53.5	67.3
	7	-	-	-	83.6	53.6	61.9
	8	119.8	-	-	90.9	58.8	65.7
	9	-	-	-	92.2	65.6	73.5
	10	-	-	-	87.8	55.7	78.9
	11	-	-	114.5	82.4	55.1	75.9
2022 <sup>p</sup>	1-11	150.2	113.5	90.8	92.8	66.2	89.7
2023 <sup>p</sup>	1-11	120.7	-	114.5	82.9	59.8	73.5

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

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

Source: Korea National Oil Corporation-PEDSIS



## 7.1.3 주요 석유제품 수출 가격

## Export Prices by Petroleum Product

		휘발유 Gasoline	경유 Diesel oil	등유 Kerosene	중질중유 Bunker-C	액화석유가스 LPG	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		81.2	77.8	76.6	76.9	54.9	71.4
2022 <sup>p</sup>		112.8	132.7	113.3	102.8	62.4	84.1
2021	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	96.8	98.2	87.9	62.4	85.9
	2	108.6	108.8	107.9	103.0	65.3	99.0
	3	127.3	135.1	126.8	130.6	92.3	111.1
	4	125.5	148.0	133.4	116.3	92.3	100.3
	5	139.5	152.3	140.1	141.1	83.1	100.5
	6	148.8	169.6	-	154.4	72.7	89.4
	7	121.7	146.3	135.4	129.6	63.8	86.3
	8	109.3	135.5	119.8	103.2	58.2	73.9
	9	96.2	126.3	123.7	90.2	58.9	72.0
	10	93.1	131.1	121.0	97.8	53.3	74.0
	11	92.5	126.2	118.5	90.3	55.5	75.8
	12	86.0	114.3	114.8	78.2	57.9	72.4
2023 <sup>p</sup>	1	95.3	113.4	115.7	81.3	52.5	75.0
	2	98.2	106.0	109.8	86.6	63.9	80.8
	3	96.1	100.5	96.6	74.5	58.5	75.6
	4	99.0	96.4	-	86.5	59.1	74.3
	5	88.9	87.7	89.8	74.5	53.0	68.8
	6	91.0	90.1	90.0	75.8	42.7	61.8
	7	95.5	100.3	100.8	79.5	38.5	64.2
	8	105.9	116.6	114.7	91.2	50.1	71.4
	9	107.1	123.2	123.1	94.8	52.3	75.4
	10	99.7	117.1	116.1	95.0	58.5	75.7
	11	95.0	106.2	109.3	86.1	52.1	72.1
2022 <sup>p</sup>	1-11	115.0	134.6	112.5	106.5	63.0	85.5
2023 <sup>p</sup>	1-11	97.5	105.3	107.1	82.4	51.5	72.1

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	
		Gasoline	선박용	자동차용	Kerosene <sup>1</sup>	Bunker-C	부탄	프로판
			MGO	Automobile			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		1,500.1	1,205.5	1,286.2	739.4	688.7	1,331.2	903.7
2022 <sup>p</sup>		1,649.6	1,603.5	1,712.2	1,203.9	1,006.5	1,581.5	1,251.0
2021	11	1,588.8	1,333.1	1,390.3	887.5	823.3	1,548.7	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
	10	1,504.2	1,708.3	1,773.9	1,370.7	1,030.5	1,514.4	1,249.3
	11	1,475.0	1,744.4	1,712.0	1,308.5	1,093.5	1,483.1	1,214.3
	12	1,371.2	1,669.3	1,515.4	1,168.4	904.2	1,459.4	1,189.1
2023 <sup>p</sup>	1	1,490.8	1,448.0	1,485.9	1,149.2	857.8	1,463.7	1,172.9
	2	1,506.2	1,429.9	1,411.0	1,083.2	859.4	1,409.7	1,122.2
	3	1,521.3	1,373.9	1,392.3	1,035.8	874.0	1,419.1	1,126.1
	4	1,567.3	1,359.1	1,379.3	1,023.0	857.7	1,420.1	1,123.1
	5	1,484.1	1,327.8	1,286.0	951.5	868.4	1,405.2	1,116.0
	6	1,488.1	1,244.9	1,289.8	933.1	845.0	1,291.7	1,067.6
	7	1,521.0	1,244.4	1,340.9	1,008.6	838.5	1,250.1	957.3
	8	1,617.7	1,302.4	1,519.8	1,194.4	868.3	1,193.7	882.6
	9	1,674.4	1,493.6	1,584.1	1,272.6	957.3	1,245.0	939.3
	10	1,585.0	1,574.2	1,558.5	1,228.1	974.0	1,327.0	1,014.2
	11	1,524.3	1,536.3	1,429.8	1,123.9	988.2	1,380.8	1,065.9
2022 <sup>p</sup>	1-11	1,681.6	1,647.9	1,733.1	1,285.7	1,046.4	1,593.0	1,271.5
2023 <sup>p</sup>	1-11	1,543.6	1,394.1	1,425.2	1,091.2	889.9	1,346.0	1,053.4

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		1,590.6	1,391.4	946.8	-	731.6	2,092.3	2,415.1	932.2
2022 <sup>p</sup>		1,812.8	1,842.9	1,473.9	-	1,082.2	2,478.1	2,854.7	1,081.8
2021	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
	10	1,666.7	1,838.3	1,598.1	-	1,050.8	2,469.8	2,827.5	1,049.5
	11	1,650.3	1,879.2	1,601.7	-	1,142.2	2,455.4	2,842.1	1,032.2
	12	1,563.7	1,783.2	1,552.6	-	986.7	2,449.7	2,849.1	1,021.4
2023 <sup>p</sup>	1	1,562.9	1,675.4	1,495.3	-	883.8	2,440.0	2,856.0	1,019.7
	2	1,578.5	1,606.4	1,464.4	-	915.6	2,405.4	2,821.6	992.2
	3	1,592.3	1,539.7	1,426.5	-	956.9	2,409.7	2,816.7	989.4
	4	1,641.0	1,535.7	1,403.8	-	882.5	2,409.0	2,797.7	988.3
	5	1,628.8	1,472.0	1,378.3	-	920.7	2,408.8	2,795.9	987.8
	6	1,580.6	1,394.5	1,336.4	-	879.3	2,374.2	2,749.0	961.0
	7	1,585.5	1,396.5	1,317.6	-	883.3	2,287.5	2,648.4	905.3
	8	1,716.8	1,573.2	1,339.6	-	880.5	2,242.8	2,591.2	870.4
	9	1,769.2	1,666.5	1,389.1	-	963.7	2,285.0	2,631.6	895.5
	10	1,775.9	1,690.3	1,432.9	-	992.6	2,367.9	2,728.4	940.3
	11	1,684.1	1,628.2	1,426.3	-	1,024.1	2,416.6	2,826.6	970.9
2022 <sup>p</sup>	1-11	1,835.0	1,847.2	1,479.4	-	1,126.9	2,482.3	2,862.7	1,087.2
2023 <sup>p</sup>	1-11	1,646.9	1,561.7	1,400.9	-	925.7	2,367.9	2,751.2	956.4

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		179,380	657	112.2	107.0	108.1
2022 <sup>p</sup>		179,380	657	124.0	119.6	120.5
2021	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
	10	179,380	657	124.9	118.7	119.9
	11	179,380	657	129.7	142.3	139.6
	12	179,380	657	137.7	141.1	140.4
2023 <sup>p</sup>	1	179,380	657	140.0	149.2	147.0
	2	179,380	657	148.2	154.2	152.7
	3	179,380	657	145.3	137.6	139.3
	4	179,380	657	140.9	135.0	136.2
	5	179,380	657	144.3	137.5	138.8
	6	179,380	657	157.5	161.8	161.0
	7	179,380	657	169.0	164.9	165.7
	8	179,380	657	166.6	165.9	166.0
	9	179,380	657	158.7	146.9	149.5
	10	179,380	657	150.3	143.0	144.5
	11	179,380	657	151.2	166.5	163.3

1. 국내탄 5급(4,400~4,599kcal/kg) 최고가격 기준

2. 연탄공장에서 판매소까지의 수송비 개당 12.75원(상·하차비용포함)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		25,452.8	554.1	14.2	17.2	14.3	13.7
2022 <sup>p</sup>		50,022.2	1,078.2	16.6	28.7	25.9	16.3
2021	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	3,356.6	1,032.6	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
	10	5,112.3	1,247.3	19.7	35.6	32.6	19.3
	11	4,742.5	1,259.0	19.7	35.3	32.4	19.3
	12	5,655.7	1,255.2	19.7	36.2	34.1	19.5
2023 <sup>p</sup>	1	6,206.4	1,295.8	19.7	34.3	32.1	19.5
	2	5,611.4	1,102.9	19.7	33.8	31.7	19.5
	3	3,706.0	918.8	19.7	32.7	30.6	19.5
	4	2,201.7	698.9	19.7	26.6	23.6	19.3
	5	2,109.5	679.4	20.7	23.5	20.6	20.4
	6	2,014.4	687.7	20.7	23.3	19.4	20.4
	7	1,622.5	620.6	20.7	24.0	21.1	20.4
	8	2,248.8	660.0	20.7	22.8	19.9	20.4
	9	1,979.0	678.2	20.7	22.7	19.7	20.4
	10	2,133.1	628.5	20.7	23.4	20.5	20.4
	11	2,395.9	644.2	20.7	21.8	18.9	20.4

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.

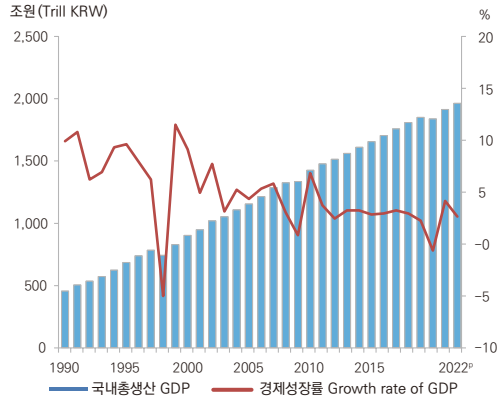
Source: Korea International Trade Association, Korea City Gas Association



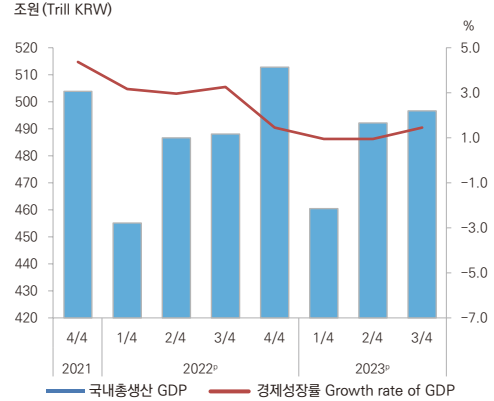


## ● 국내총생산, 경제성장률 GDP and Growth Rate of GDP

〈1990~2022<sup>o</sup>〉

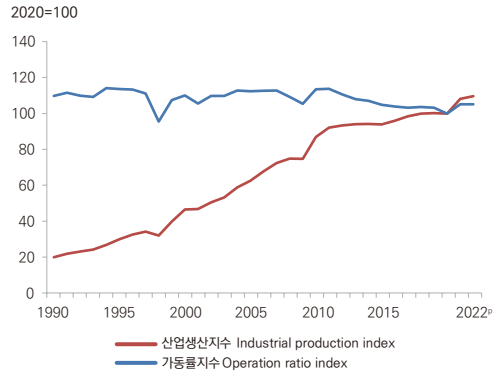


〈분기 Quarterly〉

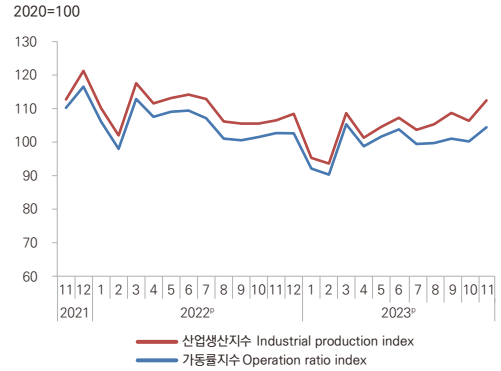


## ● 산업생산지수, 가동률지수 Industrial Production Index

〈1990~2022<sup>o</sup>〉

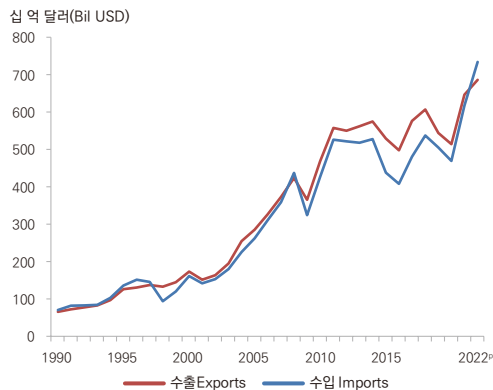


〈월별 Monthly〉

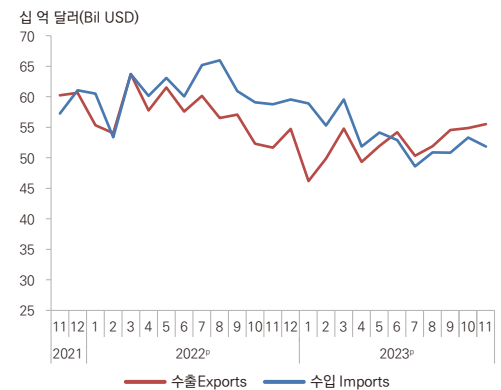


## ● 수출입 Imports and Exports

〈1990~2022<sup>o</sup>〉



〈월별 Monthly〉





## 8.1 주요 경제지표

## Major Economic Indicators

		국내총생산 <sup>1</sup> (시장가액)	경제성장률	민간소비 <sup>1</sup>	설비투자 <sup>1</sup>	건설투자 <sup>1</sup>	물가지수 Price Index	
		GDP at market prices <sup>1</sup>	Growth rate of GDP	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	-0.7	850,957	166,573	269,308	103.0	100.0
2021		1,918,710	4.1	881,396	182,114	265,017	109.6	102.5
2022 <sup>p</sup>		1,968,840	2.6	917,797	180,454	257,641	118.8	107.7
2021	11	-	-	-	-	-	113.2	103.9
	12	506,694	4.3	228,223	46,018	71,789	113.2	104.0
2022 <sup>p</sup>	1	-	-	-	-	-	114.4	104.9
	2	-	-	-	-	-	115.0	105.4
	3	467,951	3.1	223,595	42,005	52,302	116.7	106.1
	4	-	-	-	-	-	118.6	106.8
	5	-	-	-	-	-	119.4	107.5
	6	492,963	2.9	225,716	45,097	70,341	120.1	108.2
	7	-	-	-	-	-	120.4	108.7
	8	-	-	-	-	-	120.0	108.6
	9	494,155	3.2	232,808	44,348	64,471	120.1	108.8
	10	-	-	-	-	-	120.7	109.2
	11	-	-	-	-	-	120.3	109.1
	12	513,770	1.4	235,678	49,004	70,528	119.8	109.3
2023 <sup>p</sup>	1	-	-	-	-	-	120.3	110.1
	2	-	-	-	-	-	120.5	110.3
	3	472,156	0.9	233,780	44,492	53,321	120.6	110.5
	4	-	-	-	-	-	120.5	110.8
	5	-	-	-	-	-	120.0	111.1
	6	497,346	0.9	229,264	47,208	71,563	119.8	111.2
	7	-	-	-	-	-	120.1	111.3
	8	-	-	-	-	-	121.2	112.3
	9	500,997	1.4	233,388	42,483	66,926	121.7	112.8
	10	-	-	-	-	-	121.6	113.3
	11	-	-	-	-	-	121.0	112.7

1. 2015년 연쇄가격, 원계열  
자료: 한국은행

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

## 8.2 산업생산 지수

## Industrial Production Index

		총지수 All items	광업 및 제조업 Mining and manufacturing	1차 철강 Basic iron and steel	시멘트 Cement, lime and plaster and its products	기초화학물 Basic chemicals	수송장비 Motor vehicles, trailers and semitrailer	전기장비 Electrical equipment	서비스업 Services
		2020=100							
1990		19.8	19.9	36.4	70.7	14.4	20.0	33.8	0.0
1995		29.9	29.8	56.5	107.5	32.5	42.9	52.7	0.0
2000		46.4	46.3	69.4	95.0	55.4	55.4	63.0	56.1
2001		46.7	46.3	70.5	99.0	54.9	54.8	62.7	59.5
2002		50.4	50.1	73.2	108.7	58.3	59.4	70.6	65.2
2003		53.2	52.8	77.8	116.1	60.3	63.3	70.6	65.9
2004		58.8	58.5	80.9	107.9	64.9	70.7	74.8	66.1
2005		62.5	62.2	80.1	97.5	67.5	76.6	77.5	68.5
2006		67.7	67.6	83.4	101.6	70.3	82.8	77.7	72.0
2007		72.4	72.3	87.5	108.5	74.8	87.9	81.2	76.8
2008		74.8	74.7	89.4	104.3	74.3	85.1	86.3	79.5
2009		74.8	74.5	80.1	97.0	78.8	79.6	87.6	81.0
2010		86.9	87.0	97.9	91.2	85.6	98.1	96.4	84.1
2011		92.1	92.2	105.5	93.6	87.0	112.5	97.2	86.8
2012		93.4	93.4	106.5	92.6	90.6	112.3	95.2	88.2
2013		94.0	94.1	106.0	99.4	96.0	113.9	93.5	89.4
2014		94.2	94.3	110.8	96.0	96.8	117.0	95.3	91.5
2015		94.0	94.1	108.6	114.7	98.9	118.5	92.2	94.1
2016		96.0	96.2	110.1	123.7	103.4	115.7	95.4	96.6
2017		98.5	98.4	112.1	125.8	109.2	112.6	98.3	98.4
2018		99.9	99.8	109.1	114.7	109.2	111.3	98.1	100.6
2019		100.3	100.2	106.7	108.2	107.7	110.5	101.0	102.0
2020		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2021		108.2	108.4	105.2	103.2	105.9	106.3	107.7	105.0
2022 <sup>p</sup>		109.7	109.9	96.3	100.2	99.1	116.0	110.8	112.0
2021	11	113.0	113.6	107.0	113.8	97.9	112.4	113.7	109.1
	12	121.5	121.3	106.3	112.4	111.1	118.4	122.4	119.0
2022 <sup>p</sup>	1	110.4	109.5	110.0	86.1	111.4	101.8	103.8	104.8
	2	102.3	101.6	97.0	75.6	98.4	98.0	100.1	99.7
	3	117.8	118.0	107.7	104.5	109.1	112.2	113.3	110.8
	4	111.8	112.5	102.8	110.7	102.0	114.1	109.4	110.7
	5	113.4	114.3	106.6	112.8	101.0	114.4	112.7	112.8
	6	114.4	115.3	105.3	99.6	98.0	119.1	114.7	114.2
	7	113.1	113.4	108.0	106.7	102.4	119.2	115.6	112.1
	8	106.4	106.5	99.1	98.3	99.4	107.5	107.1	112.1
	9	105.8	106.5	75.9	96.7	91.7	115.1	112.7	113.2
	10	105.8	106.3	78.0	112.1	92.0	121.9	110.8	113.5
	11	106.8	107.1	79.3	105.7	87.2	136.4	111.5	113.4
	12	108.7	107.7	86.1	93.5	96.8	131.9	117.6	126.8
2023 <sup>p</sup>	1	95.6	94.1	91.7	78.1	98.8	112.7	100.7	109.7
	2	93.9	93.2	94.8	86.1	93.0	124.2	103.4	108.2
	3	108.9	109.0	107.9	106.2	99.6	142.6	114.3	117.5
	4	101.6	102.0	101.4	100.6	94.3	133.4	104.9	113.9
	5	104.8	105.3	103.4	103.3	94.2	136.0	106.8	114.1
	6	107.5	108.2	101.9	101.6	91.3	132.0	112.2	117.6
	7	103.9	104.0	101.9	82.2	97.8	126.5	112.1	114.2
	8	105.6	105.6	98.6	83.9	95.1	116.3	104.6	113.9
	9	109.0	109.6	91.9	87.2	96.2	115.0	108.4	115.6
	10	106.6	107.3	98.8	94.3	89.1	125.0	104.5	114.5
	11	112.7	113.1	93.6	99.9	90.6	133.1	107.6	116.0

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
		2020=100					
1990		109.9	130.1	164.1	99.1	101.0	92.0
1995		113.7	118.8	164.5	111.0	122.4	115.2
2000		110.1	108.0	124.1	118.0	96.9	102.2
2001		105.6	109.4	129.6	115.4	90.0	101.8
2002		109.8	109.8	142.3	118.7	94.9	107.4
2003		109.8	113.3	142.1	117.9	95.5	99.8
2004		112.9	115.1	126.4	117.7	99.9	100.6
2005		112.4	112.9	111.8	117.5	105.9	104.8
2006		112.7	112.5	113.8	118.3	110.0	105.3
2007		112.9	110.4	119.0	119.3	114.5	103.2
2008		109.3	111.1	112.2	110.2	106.9	101.0
2009		105.4	96.4	106.1	113.3	98.0	99.0
2010		113.6	108.4	98.3	117.5	115.9	108.2
2011		113.8	108.9	100.1	114.6	123.4	104.7
2012		110.7	108.7	100.0	113.6	119.2	101.8
2013		108.0	107.5	105.1	111.1	118.2	97.9
2014		107.0	111.2	98.7	109.0	119.8	97.9
2015		104.9	108.6	107.0	107.1	121.6	98.9
2016		103.9	109.6	114.1	110.2	114.1	101.6
2017		103.2	111.5	114.6	113.4	106.6	102.8
2018		103.7	108.6	115.9	110.8	109.0	101.1
2019		103.3	106.3	109.3	106.6	112.8	102.7
2020		100.0	100.0	100.0	100.0	100.0	100.0
2021		105.2	105.5	107.2	104.7	101.8	107.4
2022 <sup>p</sup>		105.2	96.3	111.5	96.8	107.5	108.3
2021	11	110.5	107.4	119.2	94.7	106.6	114.1
	12	116.8	106.9	117.8	108.2	111.7	120.5
2022 <sup>p</sup>	1	106.4	110.5	90.9	108.5	95.1	101.7
	2	98.3	97.2	81.2	96.3	92.7	95.7
	3	113.1	108.1	114.5	106.7	105.9	108.0
	4	107.8	103.1	121.6	99.4	108.5	105.0
	5	109.3	106.9	124.5	98.4	107.9	107.5
	6	109.7	105.1	110.3	95.8	112.3	109.6
	7	107.4	107.8	118.1	100.7	110.7	109.7
	8	101.3	99.0	109.6	97.5	101.2	103.5
	9	100.8	75.7	108.6	89.6	105.9	110.6
	10	101.8	77.5	126.3	89.9	110.3	111.1
	11	103.0	79.1	122.6	84.7	121.4	114.7
	12	102.9	86.1	109.9	94.4	117.9	122.4
2023 <sup>p</sup>	1	92.4	91.5	91.9	97.7	100.6	103.2
	2	90.6	94.5	102.4	90.7	108.8	106.4
	3	105.6	107.7	126.8	97.6	122.3	116.5
	4	99.0	101.6	120.5	92.3	114.5	107.5
	5	101.9	103.7	123.5	92.5	116.4	109.1
	6	104.1	102.0	121.4	89.7	112.2	113.8
	7	99.7	102.1	98.2	95.9	108.7	115.0
	8	100.0	98.8	100.3	94.2	99.6	108.0
	9	101.3	92.1	104.0	94.7	98.4	113.8
	10	100.5	98.9	110.7	87.9	106.8	110.1
	11	104.7	93.9	117.8	89.3	114.3	111.5

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	2020=100		Bil KRW		1,000 m <sup>2</sup>
1990		-	38.1	-	-	20,964	-
1995		-	64.5	-	-	49,025	-
2000		62.3	82.3	14,995	45,990	41,778	81,055
2001		57.2	77.9	13,755	50,576	50,995	97,717
2002		62.1	86.0	16,101	56,216	67,834	138,734
2003		60.7	84.4	14,961	65,553	80,897	142,108
2004		62.9	82.6	16,132	72,838	77,774	117,461
2005		66.6	82.9	15,794	75,831	83,489	111,506
2006		75.1	91.9	18,868	77,839	91,001	133,270
2007		80.2	94.9	22,690	82,939	112,502	150,957
2008		78.4	96.5	20,489	87,032	103,907	120,658
2009		70.9	91.4	18,803	89,819	109,088	105,137
2010		89.2	109.8	19,679	92,276	89,814	125,447
2011		92.3	115.1	21,223	91,717	95,332	137,868
2012		89.7	109.8	17,655	88,713	89,395	137,142
2013		88.9	101.4	19,584	98,089	77,885	127,066
2014		93.6	101.1	23,114	98,491	90,606	141,347
2015		100.0	101.3	21,680	102,614	134,493	189,840
2016		101.7	102.7	22,288	119,971	145,386	178,955
2017		116.4	113.0	26,234	139,039	142,966	171,875
2018		112.1	107.6	27,289	138,417	143,292	160,964
2019		105.8	97.1	25,405	139,311	154,243	144,293
2020		112.0	100.0	26,644	138,513	179,866	147,310
2021		122.7	107.5	35,922	141,285	196,448	173,206
2022 <sup>p</sup>		126.7	110.4	37,529	158,695	216,374	181,474
2021	11	122.2	106.4	2,476	12,445	17,186	14,483
	12	141.4	131.0	3,977	16,738	26,813	19,169
2022 <sup>p</sup>	1	117.8	98.2	2,951	11,154	16,235	13,736
	2	106.4	88.2	2,777	10,086	11,761	11,862
	3	125.3	111.4	4,000	12,908	19,306	15,058
	4	119.3	103.1	3,383	12,542	18,140	17,899
	5	131.1	109.7	3,176	13,329	19,050	19,522
	6	135.1	119.7	3,337	14,809	25,191	14,961
	7	126.3	105.2	3,011	12,195	18,431	15,614
	8	129.2	108.2	3,612	12,553	17,468	15,990
	9	122.3	110.1	3,070	12,791	21,652	13,929
	10	126.1	109.5	2,602	13,656	9,942	14,445
	11	135.3	119.8	2,888	14,825	15,741	12,967
	12	145.9	141.7	2,723	17,846	23,456	15,489
2023 <sup>p</sup>	1	109.1	86.6	3,114	12,203	19,329	12,724
	2	110.8	94.8	2,510	12,713	11,355	12,532
	3	127.7	108.6	3,746	15,155	11,390	11,925
	4	124.3	98.3	3,628	14,568	9,626	10,368
	5	124.7	103.4	2,894	14,425	15,460	12,695
	6	131.7	111.2	3,524	16,429	17,675	11,786
	7	112.1	93.4	3,156	13,693	9,440	8,483
	8	110.4	93.5	2,861	14,167	8,348	12,312
	9	115.4	106.0	2,588	14,641	14,059	9,794
	10	113.4	97.8	2,995	14,495	14,251	8,568
	11	119.2	108.5	3,395	15,491	12,546	11,240

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		644,400	615,093	85,228	75,731	-5,287	19,445	-4,661	-155
2022 <sup>p</sup>		683,585	731,370	29,831	15,061	-5,548	22,884	-2,567	1
2021	11	60,331	57,358	6,592	5,926	-306	1,167	-196	-41
	12	60,734	61,160	6,365	4,434	-760	3,486	-795	-15
2022 <sup>p</sup>	1	55,455	60,607	2,244	1,543	-834	1,866	-332	-5
	2	54,156	53,482	5,867	4,353	91	1,558	-136	-4
	3	63,787	63,811	6,771	5,569	174	1,044	-16	43
	4	57,843	60,213	130	3,129	378	-3,020	-357	-9
	5	61,591	63,168	3,796	2,951	-149	1,315	-322	-1
	6	57,680	60,150	6,064	3,845	-592	3,079	-268	2
	7	60,242	65,260	1,699	-520	-67	2,625	-339	-4
	8	56,606	66,028	-2,912	-4,141	-1,287	2,593	-77	-2
	9	57,176	61,013	2,089	755	-982	2,698	-382	78
	10	52,428	59,167	1,630	-950	-152	2,680	52	22
	11	51,772	58,848	-223	-999	-736	1,662	-150	-136
	12	54,849	59,623	2,677	-475	-1,392	4,785	-242	16
2023 <sup>p</sup>	1	46,343	59,002	-4,212	-7,321	-3,269	6,542	-165	11
	2	49,997	55,378	-518	-1,296	-2,030	3,117	-310	-1
	3	54,883	59,639	158	-1,235	-1,904	3,652	-355	-38
	4	49,447	51,964	-793	581	-1,205	-92	-76	-53
	5	52,060	54,253	1,927	1,815	-911	1,417	-394	75
	6	54,293	53,036	5,874	3,985	-2,609	4,851	-353	47
	7	50,449	48,735	3,737	4,439	-2,528	2,922	-1,096	-32
	8	52,030	51,012	4,985	5,206	-1,565	1,459	-115	-27
	9	54,651	50,980	5,421	7,419	-3,185	1,568	-382	24
	10	55,005	53,442	6,796	5,352	-1,254	2,770	-72	44
	11	55,612	51,995	4,060	7,006	-2,135	-155	-657	-12

자료: 한국은행

Source: Bank of Korea

## 8.6 자동차 등록대수

		총대수	유종별							수소
			Fuel type							
		휘발유	경유	액화석유가스	압축천연가스	하이브리드 <sup>1</sup>	전기	기타 <sup>2</sup>	수소	
		Total	Gasoline	Diesel	LPG	CNG	Hybrid <sup>1</sup>	Electricity	Others <sup>2</sup>	
		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		24,911	11,760	9,872	1,946	35	871	231	177	19,404
2022 <sup>p</sup>		25,503	12,069	9,758	1,905	33	1,119	390	200	29,623
2021	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
	10	25,403	12,013	9,780	1,914	34	1,072	366	197	27,870
	11	25,461	12,044	9,770	1,910	33	1,095	382	198	29,032
	12	25,503	12,069	9,758	1,905	33	1,119	390	200	29,623
2023 <sup>p</sup>	1	25,556	12,104	9,758	1,900	33	1,141	390	201	29,689
	2	25,597	12,127	9,747	1,893	33	1,164	401	202	30,548
	3	25,647	12,157	9,719	1,886	32	1,196	422	203	31,476
	4	25,680	12,186	9,685	1,880	32	1,223	437	204	31,805
	5	25,709	12,206	9,654	1,874	32	1,255	451	205	32,168
	6	25,757	12,232	9,631	1,868	32	1,290	465	207	32,484
	7	25,795	12,250	9,614	1,861	32	1,319	479	209	32,896
	8	25,808	12,259	9,588	1,853	31	1,345	488	210	33,213
	9	25,846	12,280	9,566	1,848	31	1,375	501	211	33,501
	10	25,870	12,291	9,541	1,841	31	1,404	516	212	33,796
	11	25,918	12,307	9,520	1,836	31	1,444	532	214	34,046

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		2014
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
1,903	98	23,502	20,953	724	3,696	130		2022 <sup>p</sup>
1,818	95	22,948	20,363	752	3,629	117	11	2021
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	
1,900	97	23,405	20,857	727	3,690	128	10	
1,904	97	23,461	20,912	726	3,695	129	11	
1,903	98	23,502	20,953	724	3,696	130	12	
1,902	98	23,556	20,999	722	3,704	131	1	2023 <sup>p</sup>
1,901	98	23,598	21,032	721	3,712	131	2	
1,901	98	23,648	21,077	718	3,720	132	3	
1,903	98	23,679	21,115	714	3,718	133	4	
1,907	99	23,703	21,147	711	3,717	133	5	
1,912	99	23,746	21,197	708	3,718	134	6	
1,915	99	23,781	21,231	706	3,723	135	7	
1,915	99	23,794	21,248	703	3,721	135	8	
1,919	99	23,828	21,287	701	3,721	136	9	
1,919	99	23,852	21,313	698	3,722	137	10	
1,920	99	23,899	21,359	696	3,726	137	11	

1. Hybrid: Gasoline + Electricity

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

Source: Ministry of Land, Infrastructure and Transport

## 8.7 냉난방도일

## Heating and Cooling Degree Days

		평균기온 Average temperature	난방도일(18℃) Heating degree day	냉방도일(24℃) Cooling degree day
		℃	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		13.7	2,456.8	205.9
2022 <sup>p</sup>		13.2	2,601.5	204.9
2021	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
	10	14.6	114.4	-
	11	10.0	239.1	-
	12	-2.8	645.3	-
2023 <sup>p</sup>	1	-1.5	605.2	-
	2	2.3	439.6	-
	3	9.8	254.8	-
	4	13.8	128.9	-
	5	19.5	17.8	-
	6	23.4	-	19.8
	7	26.7	-	84.4
	8	27.2	-	104.5
	9	23.7	-	26.9
	10	15.8	69.0	-
	11	6.8	341.4	-

주. 서울시 기준  
자료: 기상청

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



## 8.8 가구당 소득 및 소비지출

## Average Income and Expenditure per Household

		소득	소비지출	전기료 Electricity	연료비 Fuel	공동주택난방비 APT Heating	운송기구연료비 Fuel of vehicles	공공교통 Public transport	개인교통 Private transport
		Income	Consumption expenditure						
		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		3,762,900	2,431,789	-	98,725	-	109,286	-	-
2004		3,850,508	2,481,834	-	96,865	-	107,444	-	-
2005		3,894,862	2,515,537	-	96,927	-	106,280	-	-
2006		3,993,516	2,556,508	-	93,666	-	105,318	-	-
2007		4,102,045	2,584,168	-	92,496	-	103,868	-	-
2008		4,152,466	2,589,175	-	91,754	-	99,241	-	-
2009		4,090,316	2,561,419	-	95,288	-	97,155	-	-
2010		4,204,685	2,647,673	-	103,270	-	94,951	-	-
2011		4,275,555	2,662,956	-	99,540	-	92,035	-	-
2012		4,440,315	2,676,513	-	99,243	-	92,300	-	-
2013		4,474,608	2,667,160	-	96,264	-	97,750	-	-
2014		4,567,447	2,708,244	-	86,909	-	101,769	-	-
2015		4,610,025	2,701,945	-	90,680	-	110,930	-	-
2016		4,592,872	2,661,987	-	92,978	-	111,884	-	-
2017		4,565,159	2,618,489	-	82,806	-	96,128	-	-
2018		4,754,424	2,561,049	-	85,476	-	93,364	-	-
2019		4,856,297	2,957,928	-	89,948	-	110,384	-	-
2020		4,936,582	2,910,251	-	94,461	-	111,025	-	-
2021		5,103,963	2,945,181	-	97,278	-	106,582	-	-
2022 <sup>p</sup>		5,344,724	2,976,404	-	90,118	-	106,217	-	-
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	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	5,604,431	2,910,885	-	144,422	-	98,255	-	-
	2/4	5,483,440	2,966,211	-	79,350	-	103,413	-	-
	3/4	5,410,703	3,028,213	-	68,429	-	112,227	-	-
	4/4	5,305,845	2,981,990	-	74,954	-	110,362	-	-
2023 <sup>p</sup>	1/4	5,717,853	3,165,347	-	136,995	-	106,878	-	-
	2/4	5,335,344	2,952,540	-	71,767	-	112,203	-	-
	3/4	5,575,728	3,098,093	-	67,984	-	115,042	-	-

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. 2017-2021년 연간 소득은 「가계금융복지조사」 경상소득의 월 평균값임.

6. 기간별 상세 기준은 통계청의 가계동향조사 참고

자료: 통계청 가계동향조사, 통계청 가계금융복지조사

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. Income from 2017 to 2021 is the monthly average of regular income using the Survey of Household Finances and Living Conditions.

6. 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),

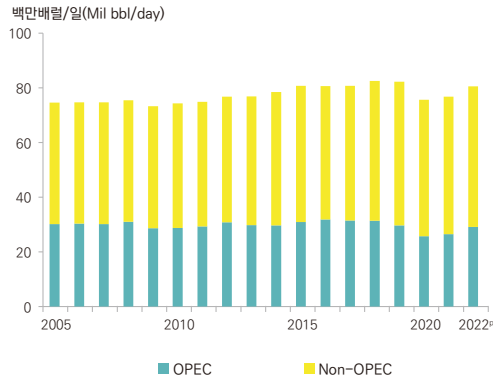
Survey of Household Finances and Living Conditions(Statistics Korea)



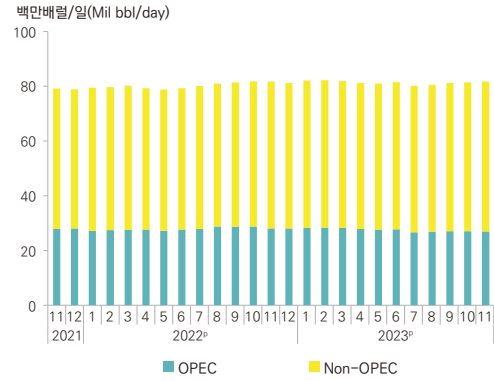


## ● 세계 원유 생산 World Crude Oil Production

〈2005~2022<sup>p</sup>〉

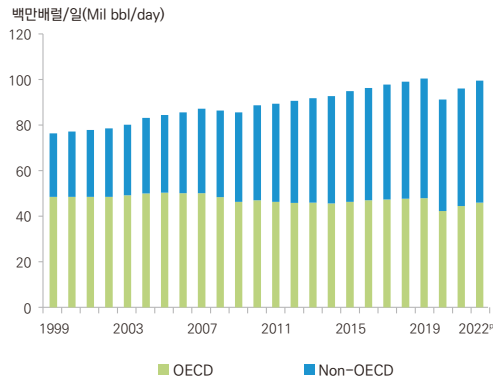


〈월별 Monthly〉

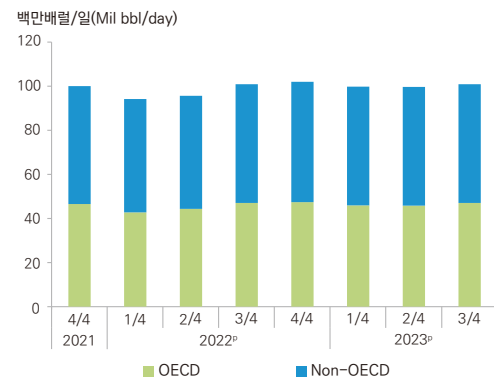


## ● 세계 석유 수요 World Oil Demand

〈1990~2022<sup>p</sup>〉

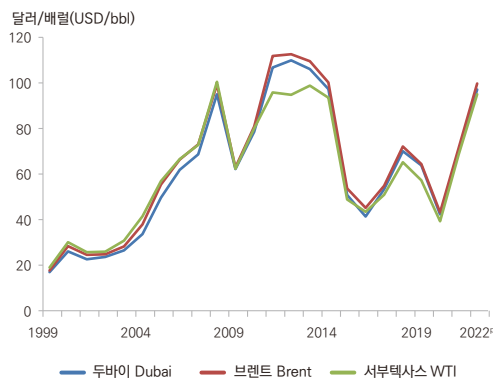


〈분기 Quarterly〉

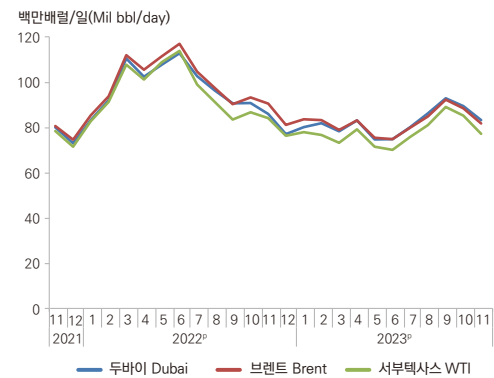


## ● 국제 석유 가격 International Oil Prices

〈1990~2022<sup>p</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	베네수엘라 Venezuela	나이지리아 Nigeria
		Million bbl/day							
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		28.90	9.64	3.88	1.81	2.71	2.46	2.79	2.40
2006		28.96	9.51	3.91	1.90	2.79	2.62	2.73	2.24
2007		28.46	9.04	3.98	2.09	2.72	2.52	2.74	2.13
2008		29.19	9.49	3.90	2.38	2.89	2.59	2.78	1.95
2016		26.90	8.45	3.74	2.43	2.54	2.27	2.67	1.82
2010		27.01	8.44	3.70	2.36	2.56	2.31	2.53	2.07
2011		27.62	9.65	3.62	2.67	2.83	2.50	2.50	2.03
2012		28.97	10.06	3.00	2.95	3.01	2.65	2.50	2.01
2013		28.07	9.92	2.68	3.08	3.07	2.76	2.50	1.84
2014		28.00	9.91	2.81	3.34	2.98	2.77	2.46	1.85
2015		29.12	10.20	2.85	4.00	2.82	2.95	2.46	1.77
2016		30.11	10.42	3.55	4.42	2.88	3.05	2.24	1.47
2017		29.83	9.96	3.81	4.47	2.71	2.93	1.97	1.53
2018		29.89	10.33	3.58	4.57	2.75	3.03	1.40	1.60
2019		28.28	9.94	2.36	4.71	2.68	3.22	0.87	1.73
2020		24.46	9.26	2.00	4.05	2.47	2.91	0.53	1.49
2021		25.33	9.28	2.42	4.03	2.54	2.78	0.61	1.31
2022 <sup>p</sup>		27.94	10.67	2.55	4.45	2.84	3.34	0.70	1.15
2021	11	27.88	10.05	2.47	4.26	2.67	2.92	0.78	1.29
	12	28.05	10.17	2.50	4.30	2.70	2.94	0.80	1.21
2022 <sup>p</sup>	1	27.19	10.21	2.49	4.30	2.72	3.17	0.69	1.38
	2	27.47	10.34	2.63	4.23	2.72	3.06	0.76	1.27
	3	27.56	10.36	2.53	4.33	2.78	3.21	0.72	1.25
	4	27.73	10.55	2.58	4.43	2.80	3.24	0.76	1.23
	5	27.28	10.58	2.31	4.44	2.81	3.31	0.73	1.07
	6	27.70	10.63	2.49	4.47	2.82	3.50	0.73	1.16
	7	27.90	10.95	2.49	4.53	2.91	3.39	0.63	1.08
	8	28.77	11.12	2.67	4.54	2.96	3.47	0.69	0.98
	9	28.73	11.15	2.48	4.55	2.98	3.54	0.67	0.95
	10	28.76	11.00	2.56	4.60	2.96	3.52	0.71	1.01
	11	28.10	10.55	2.67	4.46	2.80	3.35	0.68	1.15
	12	28.07	10.56	2.66	4.45	2.78	3.29	0.66	1.23
2023 <sup>p</sup>	1	28.24	10.54	2.65	4.37	2.83	3.45	0.72	1.25
	2	28.37	10.58	2.69	4.38	2.88	3.45	0.69	1.30
	3	28.29	10.59	2.76	4.30	2.84	3.43	0.73	1.27
	4	27.86	10.63	2.85	4.08	2.83	3.29	0.78	1.02
	5	27.70	10.14	3.10	4.10	2.76	3.26	0.80	1.18
	6	27.75	10.12	3.04	4.17	2.74	3.27	0.79	1.24
	7	26.70	9.21	3.04	4.25	2.68	3.22	0.81	1.10
	8	26.84	9.07	3.14	4.31	2.69	3.22	0.80	1.18
	9	27.08	9.14	3.14	4.32	2.71	3.25	0.77	1.35
	10	27.04	9.12	3.10	4.36	2.72	3.25	0.78	1.35
	11	26.97	9.06	3.21	4.29	2.74	3.24	0.80	1.25

1. 기타석유, NGL, 콘덴세이트 포함.

2. 중립지대 지분 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
		Million bbl/day							
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		75.42	44.40	5.00	1.93	9.78	3.73	2.79	1.82
2009		73.30	44.65	5.36	1.81	9.92	3.74	2.60	1.96
2010		74.32	45.56	5.48	1.93	10.14	4.02	2.58	2.06
2011		74.83	45.55	5.67	2.05	10.27	4.02	2.55	2.12
2012		76.75	45.99	6.52	2.23	10.37	4.07	2.55	2.07
2013		76.90	47.11	7.50	2.42	10.51	4.11	2.52	2.04
2014		78.51	48.84	8.79	2.66	10.58	4.13	2.43	2.27
2015		80.72	49.84	9.44	2.70	10.72	4.22	2.27	2.45
2016		80.67	48.85	8.85	2.75	10.96	3.91	2.15	2.52
2017		80.68	49.20	9.36	2.97	10.98	3.79	1.95	2.64
2018		82.51	51.13	10.95	3.28	11.16	3.72	1.83	2.60
2019		82.23	52.56	12.31	3.30	11.25	3.77	1.70	2.79
2020		75.66	49.94	11.32	3.07	10.27	3.83	1.72	2.94
2021		76.71	50.26	11.27	3.26	10.52	3.93	1.78	2.91
2022 <sup>p</sup>		80.53	51.45	11.91	3.37	10.74	4.04	1.84	3.02
2021	11	79.37	51.49	11.78	3.36	10.91	3.91	1.80	2.85
	12	79.11	51.06	11.68	3.23	10.93	3.82	1.81	2.84
2022 <sup>p</sup>	1	79.66	52.47	11.48	3.19	11.03	4.08	1.83	3.03
	2	79.87	52.40	11.26	3.30	11.06	4.08	1.81	2.92
	3	80.43	52.87	11.81	3.35	11.02	4.11	1.83	2.98
	4	79.44	51.71	11.77	3.33	10.07	4.08	1.82	3.00
	5	79.00	51.72	11.73	3.25	10.23	4.08	1.84	2.88
	6	79.44	51.74	11.80	3.25	10.74	4.13	1.84	2.83
	7	80.33	52.43	11.84	3.42	10.77	3.98	1.85	2.96
	8	81.22	52.45	11.99	3.49	10.63	3.93	1.85	3.09
	9	81.61	52.88	12.32	3.51	10.77	4.03	1.85	3.15
	10	81.98	53.22	12.38	3.52	10.73	4.00	1.85	3.24
	11	81.86	53.76	12.38	3.46	10.91	4.03	1.86	3.10
	12	81.42	53.35	12.14	3.39	10.94	3.92	1.88	3.07
2023 <sup>p</sup>	1	82.28	54.04	12.57	3.40	10.91	4.17	1.93	3.27
	2	82.43	54.06	12.53	3.33	10.99	4.17	1.93	3.26
	3	82.12	53.83	12.77	3.34	10.66	4.22	1.94	3.12
	4	81.38	53.52	12.65	3.21	10.61	4.15	1.96	3.14
	5	81.21	53.51	12.69	3.13	10.58	4.20	1.97	3.20
	6	81.71	53.96	12.89	3.24	10.49	4.21	1.96	3.37
	7	80.40	53.70	12.93	3.31	10.44	4.02	1.92	3.51
	8	80.71	53.87	13.04	3.34	10.43	4.06	1.94	3.46
	9	81.43	54.35	13.25	3.47	10.51	4.05	1.94	3.67
	10	81.63	54.59	13.25	3.52	10.58	4.02	1.92	3.54
	11	81.85	54.88	13.29	3.53	10.57	4.13	1.93	3.68

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		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
2022 <sup>p</sup>		99.6	46.1	24.9	13.7	7.5	53.5	4.9	0.8	15.1	13.8	6.1	8.9	4.1
2021	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
	4Q	100.9	46.9	25.1	14.0	7.8	54.0	5.1	14.0	15.6	13.9	6.1	8.4	4.1
2023 <sup>p</sup>	1Q	100.3	45.4	24.6	13.0	7.8	54.9	4.8	13.0	15.8	14.4	6.0	8.8	4.3
	2Q	101.4	45.5	25.3	13.2	7.0	55.9	4.8	13.2	16.4	14.4	6.3	9.0	4.2
	3Q	102.7	46.1	25.2	13.8	7.1	56.6	5.1	13.8	16.7	14.1	6.5	9.3	4.1

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		69.7	70.5	69.4	71.0	68.1	69.5
2022 <sup>p</sup>		99.9	101.4	96.4	99.0	94.3	96.5
2021	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
	10	93.6	96.2	91.2	93.6	87.0	91.2
	11	89.7	91.6	86.3	90.9	84.4	86.3
	12	79.7	82.4	77.2	81.3	76.5	77.4
2023 <sup>p</sup>	1	81.6	83.8	80.4	83.9	78.2	80.6
	2	81.9	83.6	82.1	83.5	76.9	82.4
	3	78.5	80.3	78.5	79.2	73.4	78.6
	4	84.1	85.7	83.4	83.4	79.4	83.5
	5	75.8	77.7	75.0	75.7	71.6	75.0
	6	75.2	77.2	75.0	75.0	70.3	75.0
	7	81.1	83.5	80.5	80.2	76.0	80.5
	8	87.3	89.6	86.5	85.1	81.3	86.6
	9	94.6	96.5	93.3	92.6	89.4	93.2
	10	91.8	93.4	89.8	88.7	85.5	89.8
	11	84.9	87.3	83.6	82.0	77.4	83.6

1. 현물가격

자료: OPEC, 한국석유공사

1. Spot price

Source: OPEC, Korea National Oil Corporation





구에너지밸런스에 기반한 기존 에너지수급통계 이용자를  
위하여 2024년 3월(2023년 12월 자료)까지  
10장 '에너지밸런스(개정전)'에서 구에너지밸런스의  
주요 자료 제공 예정

## 10. 에너지밸런스(개정전)

### Pre-revision Energy Balance

#### 10.1 주요 에너지지표

Major Energy Indicators

#### 10.2 에너지 생산

Energy production by Source

#### 10.3 일차에너지 공급

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

		일차에너지 공급	최종에너지 소비	에너지원단위 <sup>1</sup>	에너지탄성치 <sup>1</sup>	에너지수입액	에너지 수입의존도 <sup>2</sup>	석유 의존도
		TPES	TPEC	TPES/GDP <sup>1</sup>	Energy elasticity <sup>1</sup>	Energy import value	Rate of dependence on imports <sup>2</sup>	Rate of dependence on oil
		1,000 toe		toe/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		276,998	205,241	0.187	1.325	172,490	96.5	38.1
2012		278,330	206,974	0.184	0.200	184,800	96.0	38.1
2013		279,637	208,376	0.179	0.147	178,698	95.7	37.7
2014		282,453	210,477	0.175	0.315	174,137	95.2	37.0
2015		286,979	215,447	0.173	0.572	102,715	94.8	38.0
2016		293,869	222,027	0.172	0.828	80,942	94.6	40.0
2017		302,646	231,179	0.172	0.933	109,466	93.9	39.6
2018		307,774	233,585	0.170	0.584	145,970	93.6	38.5
2019		303,359	231,621	0.164	-0.652	126,701	93.4	38.7
2020		292,076	222,563	0.159	5.313	86,554	92.8	37.7
2021		307,312	237,360	0.160	1.272	137,200	92.3	38.4
2022 <sup>p</sup>		309,737	236,593	0.157	0.303	218,099	91.6	38.3
2021	11	25,622	19,726	-	-	14,678	92.6	37.8
	12	29,776	22,933	0.158	1.464	15,830	93.7	37.9
2022 <sup>p</sup>	1	30,324	23,462	-	-	18,500	92.9	36.7
	2	26,306	20,756	-	-	15,193	92.0	36.0
	3	26,111	20,476	0.177	1.467	18,813	91.8	37.9
	4	23,620	18,622	-	-	17,284	90.7	39.1
	5	24,982	19,220	-	-	17,154	90.7	40.6
	6	23,672	17,628	0.147	0.174	16,052	91.2	36.9
	7	26,671	19,614	-	-	20,979	91.5	38.2
	8	26,609	19,825	-	-	20,755	91.2	39.3
	9	23,302	17,669	0.155	0.132	19,779	90.5	39.5
	10	23,754	18,066	-	-	17,418	90.8	39.9
	11	24,467	18,869	-	-	17,522	91.8	39.3
	12	29,919	22,387	0.152	-1.659	18,649	93.0	36.7
2023 <sup>p</sup>	1	28,419	22,127	-	-	17,869	92.0	35.3
	2	25,155	19,836	-	-	17,500	91.8	36.2
	3	25,789	20,315	0.168	-4.536	16,444	91.0	39.8
	4	22,809	17,905	-	-	12,550	90.3	38.6
	5	23,733	18,424	-	-	13,365	90.7	40.4
	6	23,252	17,690	0.140	-3.814	11,933	90.4	38.8
	7	25,742	19,186	-	-	11,446	90.9	38.9
	8	25,692	19,015	-	-	12,636	90.6	37.6
	9	23,930	18,562	0.150	-1.135	13,672	90.4	39.6
	10	23,976	18,443	-	-	14,333	90.7	40.8
	11	25,767	19,763	-	-	14,240	91.5	39.0

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		42,989	969	451	1,684	33,265	6,619
2012		42,753	942	436	1,615	31,719	8,041
2013		41,336	817	463	1,771	29,283	9,001
2014		46,745	787	322	1,650	33,002	10,985
2015		49,867	794	188	1,223	34,765	12,897
2016		50,177	777	154	1,400	34,181	13,666
2017		50,152	702	341	1,490	31,615	16,004
2018		48,195	569	305	1,549	28,437	17,336
2019		51,136	513	259	1,331	31,079	17,955
2020		55,292	482	185	1,523	34,119	18,983
2021		57,341	425	55	1,435	33,657	21,769
2022 <sup>p</sup>		63,607	386	-	1,546	37,500	24,175
2021	11	4,750	38	3	92	2,890	1,727
	12	5,399	36	2	110	3,521	1,729
2022 <sup>p</sup>	1	5,595	34	-	111	3,430	2,020
	2	5,082	28	-	105	2,980	1,969
	3	5,115	36	-	118	2,954	2,008
	4	5,045	36	-	101	2,851	2,057
	5	5,428	34	-	115	3,112	2,168
	6	5,221	33	-	118	3,137	1,933
	7	5,538	32	-	146	3,271	2,090
	8	5,815	29	-	218	3,474	2,094
	9	5,209	29	-	171	3,002	2,006
	10	5,237	30	-	123	3,063	2,020
	11	4,986	32	-	112	2,983	1,859
	12	5,336	32	-	109	3,244	1,952
2023 <sup>p</sup>	1	5,575	26	-	110	3,335	2,104
	2	4,945	30	-	91	2,898	1,926
	3	5,550	31	-	112	3,237	2,170
	4	5,116	26	-	117	2,890	2,082
	5	5,308	26	-	141	3,080	2,061
	6	5,266	26	-	127	3,018	2,095
	7	5,728	24	-	203	3,370	2,132
	8	5,813	21	-	146	3,381	2,264
	9	5,475	22	-	166	3,193	2,094
	10	5,413	22	-	141	3,224	2,026
	11	5,532	29	-	120	3,348	2,036

1. 동해-1 가스전 생산량(2021년 12월 31일 생산 종료)

2. 기타: 폐기물을 이용하여 제조한 것

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

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		276,998	83,687	105,459	46,284	1,684	33,265	6,619
2012		278,330	80,636	106,134	50,185	1,615	31,719	8,041
2013		279,637	81,544	105,515	52,523	1,771	29,283	9,001
2014		282,453	84,399	104,643	47,773	1,650	33,002	10,985
2015		286,979	85,401	109,090	43,603	1,223	34,765	12,897
2016		293,869	81,499	117,605	45,518	1,400	34,181	13,666
2017		302,646	86,177	119,824	47,536	1,490	31,615	16,004
2018		307,774	86,707	118,521	55,224	1,549	28,437	17,336
2019		303,359	82,147	117,314	53,534	1,331	31,079	17,955
2020		292,076	72,241	110,240	54,970	1,523	34,119	18,983
2021		307,312	72,531	118,047	59,873	1,435	33,657	21,769
2022 <sup>p</sup>		309,737	68,354	118,551	59,612	1,546	37,500	24,175
2021	11	25,622	6,060	9,685	5,168	92	2,890	1,727
	12	29,776	6,511	11,284	6,621	110	3,521	1,729
2022 <sup>p</sup>	1	30,324	6,494	11,117	7,152	111	3,430	2,020
	2	26,306	5,494	9,459	6,300	105	2,980	1,969
	3	26,111	5,109	9,893	6,029	118	2,954	2,008
	4	23,620	4,939	9,241	4,431	101	2,851	2,057
	5	24,982	5,468	10,154	3,966	115	3,112	2,168
	6	23,672	5,842	8,746	3,897	118	3,137	1,933
	7	26,671	6,684	10,194	4,287	146	3,271	2,090
	8	26,609	6,448	10,466	3,909	218	3,474	2,094
	9	23,302	5,400	9,212	3,510	171	3,002	2,006
	10	23,754	5,120	9,469	3,958	123	3,063	2,020
	11	24,467	5,229	9,611	4,674	112	2,983	1,859
	12	29,919	6,128	10,987	7,500	109	3,244	1,952
2023 <sup>p</sup>	1	28,419	5,976	10,034	6,860	110	3,335	2,104
	2	25,155	5,314	9,103	5,823	91	2,898	1,926
	3	25,789	4,954	10,266	5,050	112	3,237	2,170
	4	22,809	4,766	8,802	4,151	117	2,890	2,082
	5	23,733	4,965	9,591	3,895	141	3,080	2,061
	6	23,252	5,255	9,026	3,731	127	3,018	2,095
	7	25,742	5,936	10,012	4,090	203	3,370	2,132
	8	25,692	6,103	9,656	4,142	146	3,381	2,264
	9	23,930	5,199	9,475	3,803	166	3,193	2,094
	10	23,976	4,948	9,782	3,856	141	3,224	2,026
	11	25,767	5,142	10,047	5,075	120	3,348	2,036

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		205,241	32,860	102,294	1,252	22,871	39,136	1,976	4,851
2012		206,974	31,017	101,683	1,156	24,728	40,127	2,102	6,162
2013		208,376	31,603	101,522	813	24,878	40,837	2,070	6,654
2014		210,477	35,198	102,664	769	23,041	41,073	1,528	6,204
2015		215,447	34,849	106,854	851	21,678	41,594	1,967	7,653
2016		222,027	32,342	114,264	1,044	22,186	42,745	2,183	7,263
2017		231,179	33,360	118,289	1,370	23,258	43,666	2,441	8,794
2018		233,585	32,480	116,831	2,038	24,979	45,249	2,682	9,327
2019		231,621	32,057	116,125	2,909	23,943	44,763	2,647	9,177
2020		222,563	30,457	109,344	3,602	23,100	43,797	2,770	9,493
2021		237,360	31,810	116,936	3,550	24,287	45,875	2,900	12,002
2022 <sup>p</sup>		236,593	29,083	117,219	3,173	24,666	47,122	3,068	12,262
2021	11	19,726	2,741	9,588	286	2,174	3,683	286	969
	12	22,933	2,745	11,130	346	3,104	4,064	497	1,047
2022 <sup>p</sup>	1	23,462	2,693	10,868	336	3,619	4,283	575	1,088
	2	20,756	2,262	9,290	301	3,311	4,089	497	1,006
	3	20,476	2,375	9,756	273	2,735	3,942	345	1,050
	4	18,622	2,264	9,164	247	2,007	3,763	178	998
	5	19,220	2,645	10,095	262	1,494	3,630	116	978
	6	17,628	2,568	8,680	274	1,311	3,699	97	999
	7	19,614	2,551	10,121	261	1,317	4,174	105	1,085
	8	19,825	2,503	10,380	283	1,162	4,314	102	1,081
	9	17,669	2,166	9,141	229	1,136	3,897	91	1,008
	10	18,066	2,298	9,375	209	1,426	3,641	152	965
	11	18,869	2,353	9,523	207	1,931	3,654	241	959
	12	22,387	2,404	10,826	290	3,216	4,036	570	1,044
2023 <sup>p</sup>	1	22,127	2,429	9,841	265	3,521	4,418	561	1,092
	2	19,836	2,113	8,939	280	2,964	4,129	404	1,007
	3	20,315	2,453	10,176	314	2,290	3,805	271	1,005
	4	17,905	2,326	8,742	325	1,715	3,651	162	984
	5	18,424	2,430	9,539	380	1,416	3,576	118	965
	6	17,690	2,373	8,983	362	1,168	3,713	98	994
	7	19,186	2,481	9,964	391	1,152	4,027	111	1,061
	8	19,015	2,399	9,616	368	1,088	4,352	105	1,086
	9	18,562	2,423	9,441	331	1,079	4,148	89	1,052
	10	18,443	2,433	9,716	363	1,269	3,606	121	936
	11	19,763	2,464	9,975	386	1,983	3,706	292	956

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		205,241	125,332	36,842	38,266	4,801
2012		206,974	126,369	36,783	38,606	5,216
2013		208,376	128,920	36,961	37,772	4,723
2014		210,477	132,897	37,241	35,643	4,696
2015		215,447	133,417	39,851	37,048	5,130
2016		222,027	135,698	42,271	38,810	5,247
2017		231,179	142,520	43,183	40,013	5,463
2018		233,585	143,501	42,969	41,544	5,571
2019		231,621	142,907	42,996	40,313	5,405
2020		222,563	137,830	39,450	40,228	5,055
2021		237,360	150,801	40,170	39,926	6,463
2022 <sup>p</sup>		236,593	147,679	40,895	41,299	6,720
2021	11	19,726	12,499	3,319	3,397	512
	12	22,933	13,649	3,822	4,848	613
2022 <sup>p</sup>	1	23,462	13,633	3,538	5,609	682
	2	20,756	11,886	2,988	5,253	629
	3	20,476	12,794	3,022	4,065	595
	4	18,622	12,228	2,844	3,038	511
	5	19,220	12,396	3,922	2,420	482
	6	17,628	11,867	3,013	2,256	492
	7	19,614	12,892	3,618	2,518	586
	8	19,825	12,571	3,964	2,738	551
	9	17,669	11,482	3,224	2,456	507
	10	18,066	11,389	3,552	2,628	497
	11	18,869	11,877	3,242	3,222	528
	12	22,387	12,663	3,969	5,095	660
2023 <sup>p</sup>	1	22,127	12,521	3,227	5,764	616
	2	19,836	11,437	2,947	4,909	542
	3	20,315	12,478	3,638	3,697	501
	4	17,905	11,396	3,093	2,947	468
	5	18,424	11,789	3,656	2,537	443
	6	17,690	11,402	3,472	2,374	442
	7	19,186	12,256	3,841	2,596	493
	8	19,015	12,165	3,455	2,891	503
	9	18,562	11,977	3,394	2,690	502
	10	18,443	12,011	3,395	2,589	448
	11	19,763	12,318	3,534	3,445	466

## 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		126,369	30,185	60,073	1,156	9,501	21,426	4,029
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		133,417	34,177	62,156	851	7,644	22,844	5,744
2016		135,698	31,770	66,820	1,044	7,537	23,218	5,309
2017		142,520	32,847	69,871	1,370	8,010	23,794	6,628
2018		143,501	32,048	69,294	2,038	9,028	24,399	6,694
2019		142,907	31,752	69,216	2,909	8,540	24,060	6,430
2020		137,830	30,216	66,483	3,602	7,813	22,973	6,743
2021		150,801	31,597	73,346	3,550	8,760	24,817	8,731
2022 <sup>p</sup>		147,679	28,883	73,161	3,173	8,613	25,130	8,719
2021	11	12,499	2,701	5,950	286	785	2,054	723
	12	13,649	2,703	6,776	346	873	2,184	768
2022 <sup>p</sup>	1	13,633	2,669	6,726	336	876	2,248	778
	2	11,886	2,246	5,798	301	776	2,055	710
	3	12,794	2,361	6,444	273	797	2,167	752
	4	12,228	2,256	6,181	247	751	2,073	720
	5	12,396	2,641	6,032	262	691	2,055	715
	6	11,867	2,565	5,609	274	686	2,028	705
	7	12,892	2,547	6,423	261	700	2,197	764
	8	12,571	2,499	6,306	283	601	2,139	743
	9	11,482	2,150	5,817	229	575	2,012	698
	10	11,389	2,265	5,556	209	642	2,016	701
	11	11,877	2,315	5,976	207	675	2,006	696
	12	12,663	2,368	6,291	290	843	2,133	737
2023 <sup>p</sup>	1	12,521	2,406	6,100	265	795	2,185	770
	2	11,437	2,094	5,585	280	723	2,038	718
	3	12,478	2,441	6,278	314	692	2,037	717
	4	11,396	2,319	5,469	325	629	1,963	691
	5	11,789	2,425	5,744	380	606	1,948	685
	6	11,402	2,370	5,442	362	556	1,976	695
	7	12,256	2,480	6,053	391	553	2,056	723
	8	12,165	2,397	6,071	368	534	2,067	728
	9	11,977	2,415	5,922	331	548	2,042	719
	10	12,011	2,397	6,074	363	598	1,908	671
	11	12,318	2,426	6,115	386	709	1,984	698

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		39,450	9,857	19,359	3,140	1,099	285	690
2021		40,170	10,354	19,967	3,033	1,060	318	597
2022 <sup>p</sup>		40,895	10,714	19,406	2,999	1,025	384	743
2021								
	11	3,319	839	1,670	255	87	27	37
	12	3,822	995	2,013	230	91	30	39
2022 <sup>p</sup>								
	1	3,538	895	1,735	249	86	33	40
	2	2,988	766	1,449	239	77	30	44
	3	3,022	711	1,451	234	84	30	66
	4	2,844	683	1,388	222	83	29	62
	5	3,922	1,080	1,918	270	87	30	64
	6	3,013	743	1,403	240	85	30	82
	7	3,618	1,028	1,643	275	92	34	73
	8	3,964	1,036	1,931	263	92	34	77
	9	3,224	885	1,406	262	85	32	76
	10	3,552	923	1,706	244	84	32	58
	11	3,242	834	1,497	254	83	33	49
	12	3,969	1,130	1,879	247	87	38	52
2023 <sup>p</sup>								
	1	3,227	810	1,511	228	81	34	39
	2	2,947	759	1,368	241	75	32	35
	3	3,638	945	1,808	229	83	30	62
	4	3,093	785	1,372	225	80	30	81
	5	3,656	996	1,691	237	84	32	76
	6	3,472	915	1,587	230	84	33	81
	7	3,841	1,019	1,741	248	87	36	92
	8	3,455	952	1,424	280	88	38	85
	9	3,394	924	1,480	244	82	37	74
	10	3,395	969	1,469	233	80	34	55
	11	3,534	928	1,650	220	81	35	39

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	16,395	871	-	3,736	2,201	10,125	3,076
2012		21,652	16,954	832	-	3,272	2,098	10,109	3,688
2013		21,301	16,472	872	-	3,075	1,923	9,849	3,730
2014		19,829	15,815	745	-	2,965	1,741	9,124	3,476
2015		20,565	16,484	672	-	3,186	2,134	9,192	3,469
2016		21,752	17,059	571	-	3,632	2,052	9,647	3,645
2017		22,620	17,393	513	-	3,648	2,045	10,238	3,680
2018		23,642	17,902	432	-	3,366	1,959	10,901	3,713
2019		22,782	17,531	306	-	3,051	1,773	10,479	3,630
2020		23,201	17,028	242	-	2,732	1,621	10,900	3,219
2021		23,776	16,150	212	-	2,683	1,571	11,104	3,290
2022 <sup>p</sup>		24,266	17,033	200	-	2,609	1,546	11,469	3,492
2021	11	2,117	1,280	40	-	239	138	1,018	279
	12	3,205	1,643	42	-	416	180	1,725	405
2022 <sup>p</sup>	1	3,825	1,784	24	-	450	204	2,203	442
	2	3,500	1,753	16	-	362	182	2,043	404
	3	2,631	1,434	14	-	214	143	1,528	319
	4	1,802	1,237	8	-	127	104	932	237
	5	1,251	1,170	4	-	121	100	500	214
	6	1,021	1,235	4	-	94	84	311	227
	7	1,103	1,415	4	-	88	87	266	255
	8	1,232	1,506	4	-	143	91	209	256
	9	1,142	1,314	16	-	128	98	259	213
	10	1,431	1,197	33	-	229	111	480	218
	11	1,947	1,275	38	-	223	138	911	259
	12	3,382	1,713	35	-	430	203	1,828	448
2023 <sup>p</sup>	1	3,722	2,042	23	-	375	184	2,183	452
	2	3,069	1,840	19	-	274	170	1,786	370
	3	2,204	1,493	13	-	201	128	1,207	303
	4	1,620	1,327	6	-	145	112	764	238
	5	1,265	1,272	4	-	129	105	502	217
	6	1,016	1,358	2	-	100	90	291	234
	7	1,077	1,519	1	-	105	96	252	255
	8	1,224	1,668	2	-	113	111	201	260
	9	1,174	1,516	8	-	134	98	218	227
	10	1,294	1,295	36	-	197	113	379	209
	11	2,013	1,431	39	-	253	136	903	286

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	71	495		2011
5,464	10,585	1,878	177	97	405		2012
5,501	10,576	1,841	182	162	61		2013
5,390	10,316	1,376	126	228	156		2014
5,486	10,533	1,758	173	270	175		2015
5,691	10,959	1,895	238	316	164		2016
5,720	11,212	2,105	280	395	175		2017
6,079	11,722	2,289	332	575	175		2018
6,059	11,606	2,224	348	663	173		2019
6,370	11,673	2,352	352	604	163		2020
6,670	10,672	2,440	379	666	239		2021
6,756	11,302	2,536	452	695	242		2022ᵖ
515	820	253	25	51	18	11	2021
535	986	434	50	53	22	12	
590	1,052	498	63	61	23	1	2022ᵖ
588	1,090	430	55	60	23	2	
518	918	304	34	53	20	3	
524	860	157	17	54	18	4	
482	818	94	20	50	17	5	
500	875	62	32	51	19	6	
631	1,003	50	49	65	21	7	
750	1,089	49	47	77	23	8	
618	952	58	30	64	20	9	
504	834	132	17	52	18	10	
509	838	213	23	52	18	11	
542	975	491	66	56	21	12	
601	1,312	479	70	62	25	1	2023ᵖ
584	1,227	345	49	60	24	2	
498	1,012	235	30	51	19	3	
511	941	142	17	53	18	4	
488	908	91	24	50	17	5	
512	979	57	36	53	19	6	
605	1,093	52	54	62	21	7	
785	1,215	41	59	81	23	8	
695	1,131	47	39	71	22	9	
525	938	102	16	54	18	10	
515	956	251	35	53	18	11	

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		4,801	1,241	112	2,355	44	1,048
2012		5,216	1,258	181	2,459	47	1,272
2013		4,723	1,227	98	2,485	46	866
2014		4,696	1,306	85	2,438	27	840
2015		5,130	1,450	85	2,540	36	1,019
2016		5,247	1,432	88	2,646	50	1,031
2017		5,463	1,470	77	2,694	55	1,168
2018		5,571	1,429	99	2,784	61	1,199
2019		5,405	1,276	78	2,766	74	1,211
2020		5,055	1,130	70	2,496	66	1,292
2021		6,463	1,140	74	3,398	82	1,769
2022 <sup>p</sup>		6,720	1,161	66	3,551	81	1,862
2021	11	512	93	5	267	7	139
	12	613	97	10	328	13	165
2022 <sup>p</sup>	1	682	109	12	361	14	187
	2	629	112	11	327	12	168
	3	595	113	8	308	8	159
	4	511	82	4	277	4	144
	5	482	100	2	245	3	132
	6	492	78	3	266	4	141
	7	586	103	4	310	6	162
	8	551	79	4	301	6	161
	9	507	68	3	283	3	149
	10	497	100	2	255	3	136
	11	528	107	4	269	5	143
	12	660	110	10	349	14	178
2023 <sup>p</sup>	1	616	110	11	286	12	196
	2	542	105	9	249	9	170
	3	501	106	6	228	6	156
	4	468	113	3	207	3	142
	5	443	96	7	200	3	137
	6	442	76	3	214	4	146
	7	493	85	4	237	6	162
	8	503	77	4	247	6	168
	9	502	86	4	242	4	165
	10	448	105	2	201	2	138
	11	466	92	4	216	7	148

1. 기타: 폐기물을 이용하여 제조한 것

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



### 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 10<sup>7</sup>kcal임.
- 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 여업에 포함됨.

### ■ 국제항공병커링 (International aviation bunkers)

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

### ■ 재고변화 (Stocks changes)

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

### 일차에너지공급 (Total primary energy supply)

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

### ■ 제품이동 (Transfers between commodities)

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

### 통계오차 (Statistical difference)

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

### 일차에너지소비 (Total primary energy consumption)

일차에너지소비는 경제 내부에서 발생하는 에너지 상품 흐름의 합계. 즉, 전환과정, 전환자체소비(에너지산업 자체소비), 손실의 합계임.

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

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

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

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

연료전지용 수소가 투입되어 전기가 생산되는 공정.

### 전환자체소비(Transformation own use)

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

### 손실 (Losses)

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

### 최종소비 (Total final consumption)

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

### ■ 산업 (Industry)

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

산업부문의 하위 분류는 한국표준산업분류체계를 따름.

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

### ■ 수송 (Transport)

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

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

### ■ 가정 (Residential)

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

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

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

## 3. 간이밸런스의 열 구조

### 석탄 및 석탄제품 (Coal)

#### ■ 무연탄 (Anthracite)

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

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

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

### ■ 프로판 (Propane)

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

### ■ 부탄 (Butane)

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

### ■ 휘발유 (Motor gasoline)

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

### ■ 항공휘발유 (Aviation gasoline)

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

### ■ 휘발유형항공유 (Gasoline type jet fuel)

등유와 납사로 구성되며 항공기의 터빈동력에 사용되는 경질유임.

### ■ 등유형항공유 (Kerosene type jet fuel)

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

### ■ 등유 (Kerosene)

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

### ■ 경유 (Gas Oil, Diesel oil)

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

### ■ B-A

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

### ■ B-B

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

### ■ B-C

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 디왁싱할 때 추출되는 잔여물임. 주로 양초, 파라핀지, 방수제, 약용, 크레용원료 등으로 사용됨.

### ■ 석유코크 (Petroleum coke)

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

### ■ 기타석유제품 (Other oil products)

위에서 정의되지 않은 모든 석유제품으로 주로 프로필렌과 황의 생산량임.

### 원자력 (Nuclear)

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

### 수력 (Hydro)

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

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

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

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

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

지열, 태양광, 태양열, 해양, 풍력의 합계.

### 기타에너지원 (Other Source)

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

### 전기 (Electricity)

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

### 열 (Heat)

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

### 총에너지 (Total of all energy)

모든 에너지 상품의 합계.

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

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

### C. 기타 에너지 용어

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**API(American Petroleum Institute)** : 원유나 석유제품의 비중을 나타내기 위한 지표로 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 석유헌기 후의 국제에너지 정세에 대응하기 위하여 미국의 제창에 의해 1974년 11월에 설립된 석유소비국의 국제기구임. 사무국은 파리의 경제협력개발기구 본부 내에 있으며 현재 가맹국은 31개국임(2022년 8월 기준). 설립 당초는 OPEC의 원유공급 삭감과 가격인상에 대응하는 것이 큰 목적이었지만, 최근에는 비상시의 석유유통과 대체에너지 개발협력 등에 중점을 둠.

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



**OPEC(Organization of Petroleum Exporting Countries)** : 석유수출기구의 약칭. 1960년 9월 이라크, 쿠웨이트, 사우디아라비아, 베네수엘라, 이란의 5개국에 의해 설립되었으며, 본부는 빈에 있음. OPEC설립의 직접적인 원인은 1959년과 1960년 2회에 걸친 원유공시가격의 대폭적인 인하가 메이저에 의해 일방적으로 행해진 데에 있으며, 산유국간의 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 사하라 블렌드(Saharan Blend), 나이지리아의 보니 라이트(Bonny Light), 사우디아라비아의 아랍 라이트(Arab Light) 등 10여개 유종으로 구성됨.

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



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