

에너지통계 월보

MONTHLY
ENERGY
STATISTICS



2019년 11월 자료



KOREA ENERGY ECONOMICS INSTITUTE



에너지경제연구원
Korea Energy Economics Institute

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약어 ABBREVIATIONS

GWh : gigawatt hour
MWh : megawatt hour
Kcal : kilocalorie
Mt : million tonnes
t : metric ton = tonne = 1000kg
toe : tonne of oil equivalent = 107kcal

TPES : Total Primary Energy Supply
TFEC : Total Final Energy Consumption
HDD : Heating Degree Days
CDD : Cooling Degree Days
BPSD : Barrel Per Stream Day
BPCD : Barrel Per Calender Day
D-D : Direct Dealing
FOB : Free On Board
C&F : Cost & Freight

- nil
p Preliminary
... not available
e estimate

열량환산계수 적용안내

에너지법 시행규칙 제5조제1항에 의거 2007년부터 매 5년마다 변경된 열량을 적용하고 있으니 이용에 유의하시기 바랍니다.

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1. 일러두기

가. 에너지밸런스 변경 사항

1) 개요

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

2) 석탄

- 유연탄: 일부 연료용 유연탄 소비업종의 분류 수정 (섬유·의복 → 석유·화학)
 - 2000년부터 적용
- 무연탄: 수입무연탄 소비용도 분류 방법 개선
 - 2007년부터 발전용 수입무연탄 소비량 조정
 - * 기존: 발전용 수입무연탄 소비량 = 수입무연탄 소비량 × 수입무연탄 소비실태조사 결과의 발전용 비중
 - * 변경: 발전용 수입무연탄 소비량 = 한전의 발전용 무연탄 소비량 × 석탄협회의 발전용 국내무연탄 소비량
 - 산업부문 무연탄 소비량 수정
 - * 산업부문 무연탄 소비량은 무연탄 총소비량에서 발전용과 가정용 무연탄 소비량을 제외한 값으로 산정하기 때문에 상기 발전용 수입무연탄 소비량 수정으로 인해 조정됨.
 - 2012년 이후 산업부문 수입무연탄 열량환산 방법 개선
 - * 기존: 원료용 수입무연탄 발열량을 적용
 - * 변경: 산업용 무연탄 소비용도를 원료용(PCI탄)과 연료용으로 구분하여 각각의 열량을 적용 (2012년부터 열량을 구분하여 공표)
- 유·무연탄 수급 자료의 월간 수치 합계와 연간수치 사이의 정합성 보정
 - 1990년부터 적용

3) 석유

- 2018년 5월 기준의 PEDSIS(석유류수급통계)자료 기준으로 1994년 이후의 시계열 갱신
- PEDSIS의 “석유정제업” 항목을 “기타에너지”에서 “석유·화학”으로 이동

- 에너지유: 경유

- 육상수송 소비량에서 바이오디젤(2004년부터 데이터 집계) 소비량 제외

- * 기존: PEDSIS의 “도로” 소비량

- * 변경: PEDSIS의 “도로” 소비량 신재생에너지의 바이오디젤 생산량

- 비에너지유: 파라핀왁스

- 열량 환산 기준 변경

- * IEA 기준인 10,030kcal/kg 사용

- 열량 환산 기준 단위를 ℓ 에서 kg으로 변경함에 따라 7.72bbl/ton(한국석유공사 석유류수급통계 기준)을 적용하여 단위를 환산

- 비에너지유: 기타 석유제품

- 기타 석유제품에는 부생연료유(등유형), 부생연료유(중유형), 기타제품, 정제가스가 포함됨.

- 기존에는 부생연료1호 열량환산기준(리터당 8,800kcal)을 일괄 적용하였으나, 각 제품별로 열량환산기준을 각각 적용하여 시계열 수정

- * 부생연료유(등유형): 8,850kcal/ℓ (11년 이전)→ 8,800kcal/ℓ (12~16년)→ 8,860kcal/ℓ (17년 이후)

- * 부생연료유(중유형): 9,700kcal/ℓ ('11년 이전)→ 9,550kcal/ℓ ('12~'16년)→ 9,530kcal/ℓ ('17년 이후)

- * 기타제품: 10,101kcal/kg(IEA 기준) 적용

- * 정제가스: 12,418kcal/kg(IEA 기준) 적용

- 기타제품과 정제가스의 열량 환산 기준 단위를 ℓ 에서 kg으로 변경함에 따라 각각 6.05bbl/ton, 13.98bbl/ton(한국석유공사 석유류수급통계 기준)을 적용하여 단위를 환산

4) 열에너지

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

- 변경: 변경: 1998년부터 「집단에너지사업편람」(한국에너지공단)의 지역냉·난방부문 열생산 및 판매량을 모두 반영

5) 신재생에너지

- 2011년 이후 발전 및 최종에너지 소비의 부문별 소비량을 재분류

나. 단위

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

다. 열량

- 에너지수급통계는 에너지법 시행령 제15조제1항에 따라 정하는 에너지열량환산 기준 중 총발열량을 적용하며, IEA 등 일부 국가에서는 목적에 따라 순발열량을 적용하는 경우도 있음.
- 에너지열량환산기준은 1980년 이후 6차에 걸친 개정이 있었으며, 2007년부터는 2006년에 제정된 에너지법에 따라 매 5년마다 작성·공포함(에너지법 시행규칙 제 5조 제2항).
- 2007년 이전까지는 일부 에너지원이 추가되는 수준의 열량개정이 이루어져 통계에 큰 영향을 주지 못했으나 2007년부터는 동일 에너지원이라도 열량차이가 커서 시행 첫년도에는 단층현상 발생
- 따라서 2007년 이후 5년 주기의 열량개정에 따라 발생하는 개정 첫년도의 단층현상 완화를 위하여 개선안을 연구 중이며, 2017년 통계는 혼란을 줄이기 위하여 기존 열량을 적용한 통계를 별도 제공

라. 주요 용어

1) 1차에너지

- 생산, 수출입 및 재고증감에 의해 국내 공급된 에너지이며, 타 에너지로 전환되기 위해 투입되는 에너지와 산업, 수송, 가정, 상업용으로 소비되는 최종에너지의 합으로 계산
- 현행 국가에너지밸런스에서는 원유의 투입과 석유제품의 생산에 해당하는 석유정제를 전환통계로 보지 않고, 대신 생산된 석유제품을 1차에너지 수입으로 간주하여 작성

2) 최종에너지

- 산업, 수송, 가정 및 상업부문 등 최종에너지 소비부문에서 사용하는 에너지로, 최종소비자가 직접 사용한 1차에너지와 전환과정을 거친 2차에너지가 여기에 해당
- 현 국가통계에서 전력과 열에너지는 한전 및 지역난방 사업자가 공급하는 양만 최종에너지소비에 포함
- 자가생산자가 생산한 전력과 열에너지는 생산부문 및 업종의 연료소비로 최종소비에 포함되나, 전력거래소에 판매된 자가발전은 전력으로 최종소비에 포함

3) 에너지전환

- 에너지전환은 사용하기 편리한 에너지로 변환하는 과정을 말하며 발전, 석유정제, 지역난방, 가스제조 등이 해당
- 발전은 사업자 및 자가 생산을 모두 포함하여야 하나, 현재 국가통계는 자가발전 투입연료를 자가발전사업자의 소비에 포함
- 석유정제는 원유의 투입과 석유제품의 산출 과정을 의미하나, 현 에너지밸런스에서는 정제 생산된 석유제품을 1차에너지로 간주하고 투입 원유는 반영하지 않음.

4) 1인당 에너지소비

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

5) 수입의존도

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

6) GDP 단위당 에너지 소비

- 에너지원단위=1차에너지/총부가가치(GDP)이며, 경제활동에 투입된 에너지소비의 효율성을 평가하는 지표로서 산업구조, 부가가치, 에너지절약 및 이용효율 수준 등에 좌우
- 총부가가치는 불변가격 기준이며, 미 달러화 표시는 환율을 이용하여 재계산. 2010년 이전에는 국제재무통계(IFS, IMF)의 연평균환율을 적용, 최근 환율은 한은의 연평균환율 적용

7) 에너지 소비의 GDP 탄력성

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

2. 단위 및 열량환산표 Unit Conversion Factors

가. 부피 Volume

Units	m ³	cm ³	liter	in ³	ft ³	미gal	영gal	bbl
1 m ³	1	10 ⁶	10 ³	6.102374 × 10 ⁴	35.31467	264.1721	219.969	6.2892
1 cm ³	10 ⁻⁶	1	10 ⁻³	0.06102374	3.531467 × 10 ⁻⁵	2.641721 × 10 ⁻⁴	2.19969 × 10 ⁻¹	0.62892 × 10 ⁻⁵
1 liter	10 ⁻³	1000	1	61.02374	0.03531467	0.2641721	0.219969	6.2892 × 10 ⁻³
1 in ³	1.638706 × 10 ⁻⁵	16.38706	0.01638706	1	5.787037 × 10 ⁻⁴	4.329004 × 10 ⁻³	3.60465 × 10 ⁻³	0.10306 × 10 ⁻³
1 ft ³	2.831685 × 10 ⁻²	28316.85	28.31685	1728	1	7.480520	6.2288	0.178
1 gal(U.S)	3.785412 × 10 ⁻³	3785.412	3.785412	231	0.1336806	1	0.83268	0.023809
1 gal(U.K)	0.004561	4546.1	4.5461	277.42	0.160544	1.20094	1	0.028571
bbl	0.158988	158988	158.988	9.702	5.6146	42	34.9726	1

나. 무게 Mass

Units	g	kg	oz	lb	metric ton	Short ton(미)	Long ton(영)
1 g	1	10 ⁻³	0.03527396	2.204623 × 10 ⁻³	10 ⁻⁶	1.102311 × 10 ⁻⁶	9.842 × 10 ⁻⁷
1 kg	1000.	1	36.27396	2.204623	10 ⁻³	1.102311 × 10 ⁻³	9.842 × 10 ⁻⁴
1 oz(avdp)	28.34952	0.02834952	1	0.0625	2.834952 × 10 ⁻⁵	5 × 10 ⁻¹	2.790 × 10 ⁻⁵
1 lb(avdp)	453.5924	0.4535924	16	1	4.535924 × 10 ⁻⁴	0.0005	4.464 × 10 ⁻⁴
1 metric ton	10 ⁶	1000	35273.96	2204.623	1	1.102311	0.9842
1 ton(U.S)	907184.7	907.1847	32000.	2000	0.9071847	1	7.8927
1 ton(U.K)	1016.0 × 10 ³	1016.0	35.838 × 10 ³	2240.143	1.0160	1.1200	1

다. 에너지 Energy

Units	J	cal	Btu	kW hr	hp hr	ft-lb(wt)
1 J	1	0.2388853	9.479735 × 10 ⁻⁴	2.778236 × 10 ⁻⁷	3.725676 × 10 ⁻⁷	0.7376839
1 cal	4.186109	1	3.968321 × 10 ⁻³	1.163000 × 10 ⁻⁶	1.559609 × 10 ⁻⁶	3.088025
1 Btu	1054.882	251.9958*	1	2.930711 × 10 ⁻⁴	3.930148 × 10 ⁻⁴	778.1693
1 kW hr	3599406	859845.2	3412.142	1	1.341022	2655224
1 hp hr	2684077	641186.5	2544.33	0.7456998	1	1980000.*
1 ft-lb(wt)	1.355594	0.3238315	1.285067 × 10 ⁻³	3.766161 × 10 ⁻⁷	5.050505... × 10 ⁻⁷	1

라. 비중과 톤당 용적(60°F 시)
(비 중)

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

마. 단위의 배수

명 칭	기 호	크 기
Tera	T	10 ¹²
Giga	G	10 ⁹
Mega	M	10 ⁶
Kilo	k	10 ³
Hecta	h	10 ²
Deca	da	10 ¹
Deci	d	10 ⁻¹
Centi	c	10 ⁻²
Milli	m	10 ⁻³
Micro	μ	10 ⁻⁶
Nano	n	10 ⁻⁹
Pico	p	10 ⁻¹²
Femto	f	10 ⁻¹⁵
Atto	a	10 ⁻¹⁸

바. 석유제품환산표

구 분	배럴→톤	톤→배럴	배럴/일→톤/년	톤/년→배럴/일
원 유	0.136	7.33	49.8	0.0201
휘 발 유	0.118	8.45	43.2	0.0232
등 유	0.128	7.80	46.8	0.0214
경 유	0.133	7.50	48.7	0.0205
중 유	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
롱 톤	1.016	1	1.120	7.45	1.18	0.261	0.313
숏 톤	0.907	0.893	1	6.65	1.05	0.233	0.279
배 렐	0.136	0.134	0.150	1	0.159	0.035	0.042
입 방 미 터(m³)	0.863	0.849	0.951	6.29	1	0.220	0.264
천 갤 런 (영)	3.91	3.83	4.29	28.6	4.55	1	1.201
천 갤 런 (미)	3.25	3.19	3.58	23.8	3.79	0.833	1

자료 : BP.com

3. 에너지 열량 환산기준 Energy Conversion Factors/Oil Equivalent

1) 7차 에너지열량 환산기준(2017)

2017년 12월 28일 개정(에너지 시행규칙 제5조 제1항)

구분	에너지원	단위	총발열량			순발열량		
			MJ	kcal	석유환산톤 (10 ⁻³ toe)	MJ	kcal	석유환산톤 (10 ⁻³ toe)
석유 (17종)	원유	kg	45.0	10,750	1.075	42.2	10,080	1.008
	휘발유	ℓ	32.7	7,810	0.781	30.4	7,260	0.726
	등유	ℓ	36.7	8,770	0.877	34.2	8,170	0.817
	경유	ℓ	37.8	9,030	0.903	35.2	8,410	0.841
	B-A유	ℓ	39.0	9,310	0.931	36.4	8,690	0.869
	B-B유	ℓ	40.5	9,670	0.967	38.0	9,080	0.908
	B-C유	ℓ	41.7	9,960	0.996	39.2	9,360	0.936
	프로판(LPG1호)	kg	50.4	12,040	1.204	46.3	11,060	1.106
	부탄(LPG3호)	kg	49.5	11,820	1.182	45.7	10,920	1.092
	나프타	ℓ	32.3	7,710	0.771	29.9	7,140	0.714
	용제	ℓ	32.8	7,830	0.783	30.3	7,240	0.724
	항공유	ℓ	36.5	8,720	0.872	33.9	8,100	0.810
	아스팔트	kg	41.4	9,890	0.989	39.2	9,360	0.936
	윤활유	ℓ	40.0	9,550	0.955	37.3	8,910	0.891
	석유코크스	kg	35.0	8,360	0.836	34.2	8,170	0.817
	부생연료유1호	ℓ	37.1	8,860	0.886	34.6	8,260	0.826
	부생연료유2호	ℓ	39.9	9,530	0.953	37.7	9,000	0.900
가스 (3종)	천연가스(LNG)	kg	54.7	13,060	1.306	49.4	11,800	1.180
	도시가스(LNG)	Nm3	43.1	10,290	1.029	38.9	9,290	0.929
	도시가스(LPG)	Nm3	63.6	15,190	1.519	58.4	13,950	1.395
석탄 (7종)	국내무연탄	kg	19.8	4,730	0.473	19.4	4,630	0.463
	연료용 수입무연탄	kg	21.2	5,060	0.506	20.5	4,900	0.490
	원료용 수입무연탄	kg	25.2	6,020	0.602	24.7	5,900	0.590
	연료용 유연탄(역청탄)	kg	24.8	5,920	0.592	23.7	5,660	0.566
	원료용 유연탄(역청탄)	kg	29.2	6,970	0.697	28.0	6,690	0.669
	아역청탄	kg	21.4	5,110	0.511	19.9	4,750	0.475
	코크스	kg	29.0	6,930	0.693	28.9	6,900	0.690
전기 등 (3종)	전기(발전기준)	kWh	8.9	2,130	0.213	8.9	2,130	0.213
	전기(소비기준)	kWh	9.6	2,290	0.229	9.6	2,290	0.229
	신탄	kg	18.8	4,500	0.450	-	-	-

- 주 1) “총발열량”이란 연료의 연소과정에서 발생하는 수증기의 잠열을 포함한 발열량을 말한다.
 2) “순발열량”이란 연료의 연소과정에서 발생하는 수증기의 잠열을 제외한 발열량을 말한다.
 3) “석유환산톤”(toe: ton of oil equivalent)이란 원유 1톤이 갖는 열량으로 107kcal를 말한다.
 4) 석탄의 발열량은 인수식을 기준으로 한다.
 5) 최종에너지사용자가 사용하는 전기에너지를 열에너지로 환산할 경우에는 1kWh=860kcal를 적용한다.
 6) 1cal=4.1868J, Nm3은 0℃ 1기압 상태의 단위체적(세제곱미터)을 말한다.
 7) 에너지원별 발열량(MJ)은 소수점 아래 둘째 자리에서 반올림한 값이며, 발열량(kcal)은 발열량(MJ)으로부터 환산한 후 1의 자리에서 반올림한 값이다. 두 단위 간 상충될 경우 발열량(MJ)이 우선한다.

2) 총발열량 추이 Trend of Gross Calorific Value

구분		단위	총발열량(kcal)							'12년 대비 열량 증감
			1980	1981	1987	1990	2007	2012	2017	
석유 (17종)	원유	kg	10,000	10,000	10,000	10,000	10,750	10,730	10,750	-
	휘발유	ℓ	8,300	8,300	8,300	8,300	8,000	7,780	7,810	↑ 30
	등유(실내)	ℓ	8,700	8,700	8,700	8,700	8,800	8,790	8,770	↓ 20
	등유(보일러)						8,950			
	경 유	ℓ	9,200	9,200	9,200	9,200	9,050	9,010	9,030	↑ 20
	B-A	ℓ	9,500	9,400	9,400	9,400	9,300	9,290	9,310	↑ 20
	B-B	ℓ	9,200	9,700	9,700	9,700	9,650	9,670	9,670	-
	B-c	ℓ	9,900	9,900	9,900	9,900	9,900	9,950	9,960	↑ 10
	프로판	kg	12,000	12,000	12,000	12,000	12,050	12,050	12,040	↓ 10
	부탄	kg	11,800	11,800	11,800	11,800	11,850	11,850	11,820	↓ 30
	납사	ℓ	8,000	8,000	8,000	8,000	8,050	7,710	7,710	-
	용제	ℓ	-	-	-	(8,200)	7,950	7,950	7,830	↓ 120
	항공유(JA-1)	ℓ	-	8,700	8,700	8,700	8,750	8,730	8,720	↓ 10
	항공유(JP-4)	ℓ	-	8,500	8,500	8,500				
	항공유(AVI-G)	ℓ	-	8,700	8,700	8,700				
	아스팔트	kg	-	-	-	(10,000)	9,900	9,910	9,890	↓ 20
	윤 활 유	ℓ	-	-	-	(9,400)	9,250	9,500	9,550	↑ 50
	석유코크스	kg	-	-	-	(10,800)	8,100	8,000	8,360	↑ 360
	부생연료 1호	ℓ	-	-	-	-	8,850	8,800	8,860	↑ 60
	부생연료 2호	ℓ	-	-	-	-	9,700	9,550	9,530	↓ 20
가스 (3종)	천연가스(LNG)	kg	-	9,500	12,980	13,000	13,000	13,040	13,060	↑ 20
	도시가스(LNG)	Nm³	7,000	7,000	7,000	10,500	10,550	10,430	10,290	↓ 140
	도시가스(LPG)	Nm³	-	-	-	15,000	15,000	15,000	15,190	↑ 190
석탄 (7종)	국내 무연탄	kg	4,600	4,600	4,500	4,500	4,650	4,500	4,730	↑ 230
	연료용 수입 무연탄	kg	-	-	-	6,000	6,550	5,020	5,060	↑ 40
	원료용 수입 무연탄	kg						5,900	6,020	↑ 120
	연료용 유연탄(역청탄)	kg	6,600	6,600	6,600	6,600	6,200	6,160	5,920	↓ 240
	원료용 유연탄(역청탄)	kg					7,000	7,000	6,970	↓ 30
	아역청탄	kg	-	-	-	-	5,350	5,420	5,110	↓ 310
	코크스	kg	6,500	6,500	6,500	6,500	7,050	6,960	6,930	↓ 30
전기 등 (3종)	전기(발전기준)	kWh	2,500	2,500	2,500	2,500	2,150	2,110	2,130	↑ 20
	전기(소비기준)	kWh	-	-	-	-	-	2,300	2,290	↓ 10
	신탄	kg	4,500	4,500	4,500	4,500	4,500	4,500	4,500	-

4. 에너지수급통계 작성 개요

가. 통계작성 승인내용

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

나. 연혁

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

다. 작성 방법

- “에너지통계의 작성등에 관한 규정”(산업통상자원부 고시 제2013-70호) 제4조의 에너지수급통계작성기관에서 매월 생산 및 판매 실적을 보고받아 에너지경제연구원에서 에너지밸런스 및 국가에너지수급 관련 통계를 작성
※ 에너지 수급 통계 작성 Flow 참조

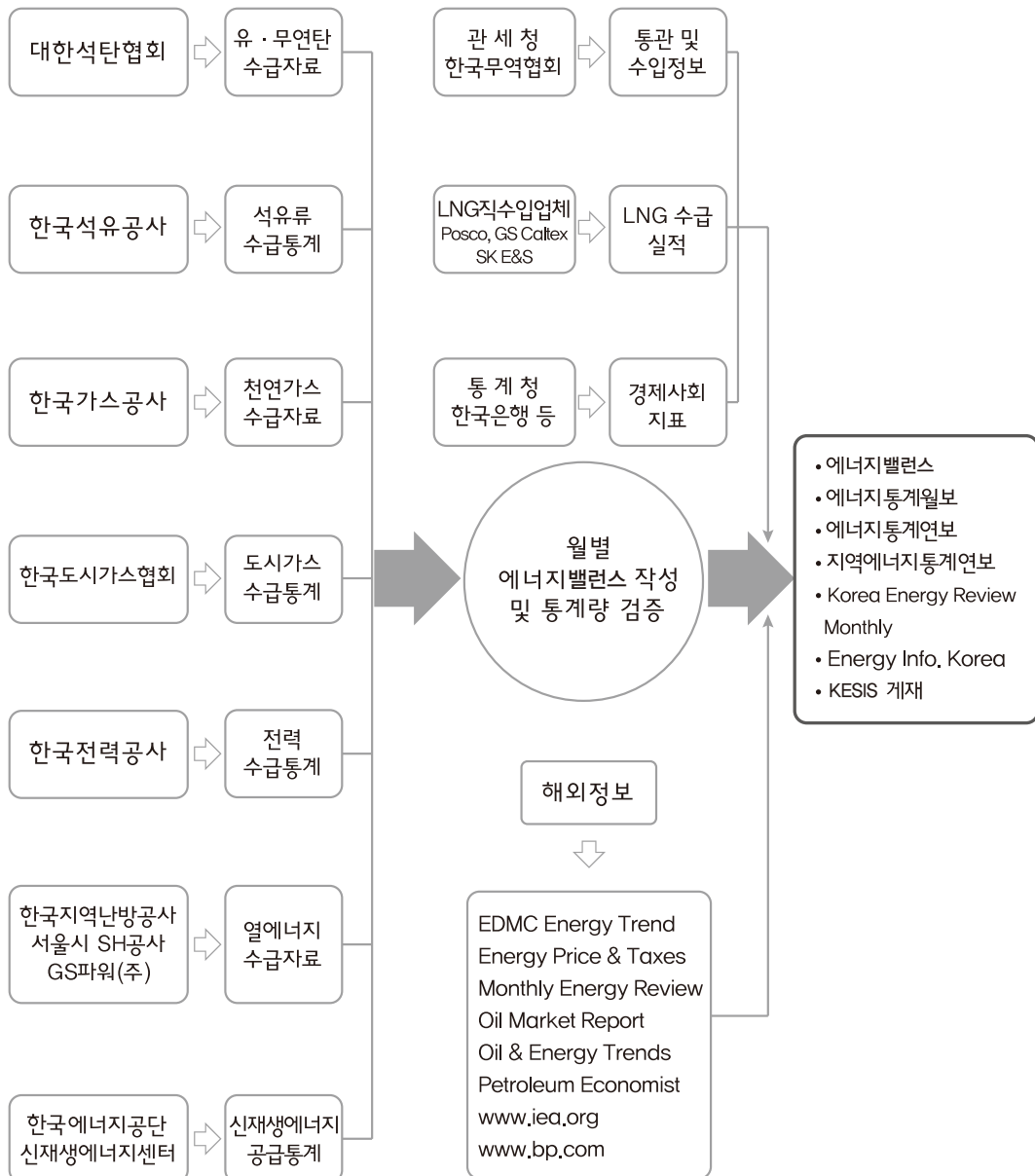
라. 작성 내용

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

마. 결과 공표

- 간행물, KESIS(Korea Energy Statistics Information System), 인터넷(PDF 파일)
- 간행물 : 에너지통계월보(매월), 에너지통계연보(매년)
 - 「에너지통계월보」발간 : 매월 15일경
 - 「에너지통계연보」발간 : 매년 12월경

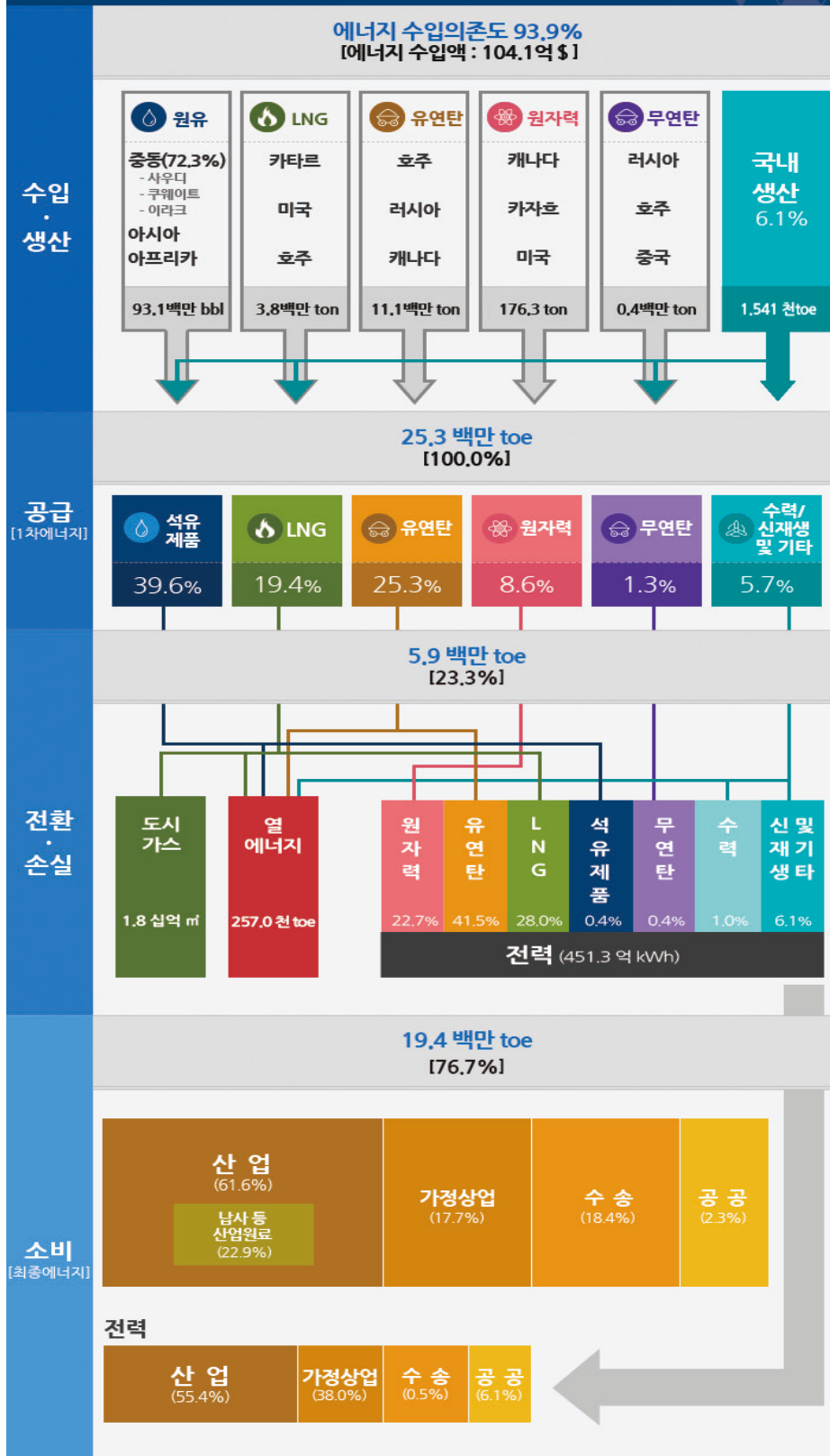
※ 에너지수급통계 작성 Flow



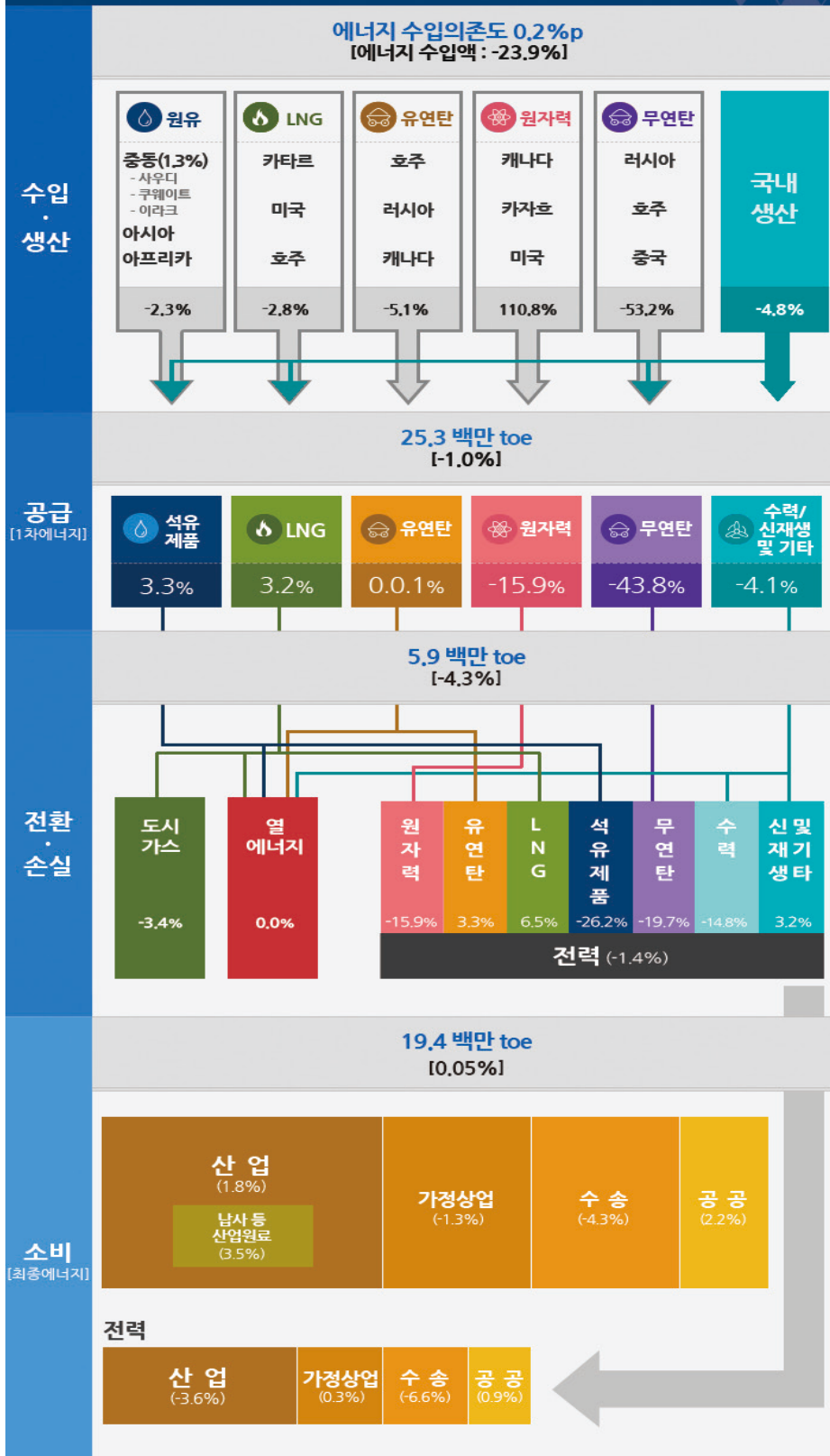
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2019년 11월 Energy Balance Flow



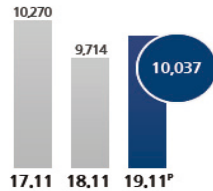
2019년 11월 Energy Balance Flow(전년동월대비)



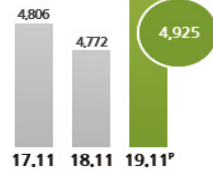
1차 에너지 공급 / Primary energy supply (단위: 천 toe)



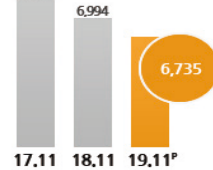
합계 / Total



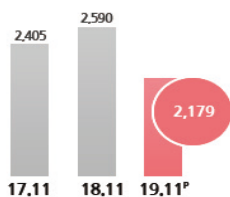
석유 / OIL



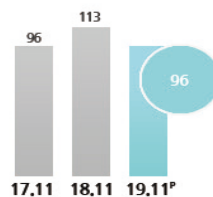
천연가스 / NATURAL GAS



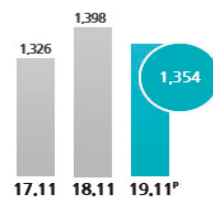
석탄 / COAL



원자력 / NUCLEAR



수력 / HIDRO

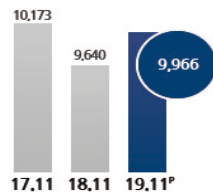


신재생및기타 / RENEWABLES & OTHERS

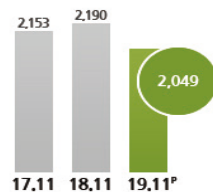
최종에너지 소비 / Final energy consumption (단위: 천 toe)



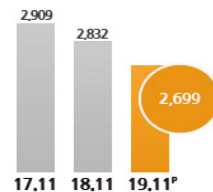
합계 / Total



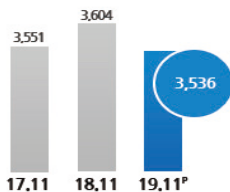
석유 / OIL



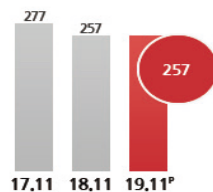
도시가스 / CITY GAS



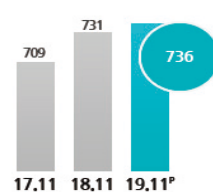
석탄 / COAL



전력 / ELECTRICITY



열 / HEAT



신재생및기타 / RENEWABLES & OTHERS

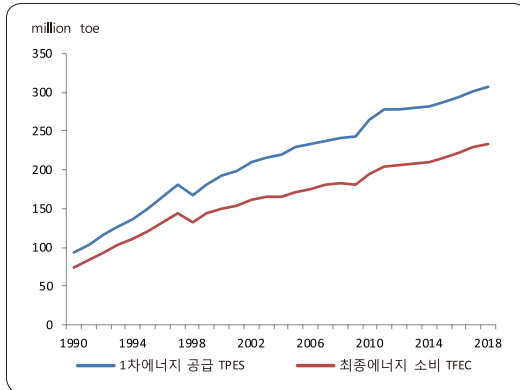
1. 에너지 개요 및 1차에너지 공급

Energy overview and
primary energy supply

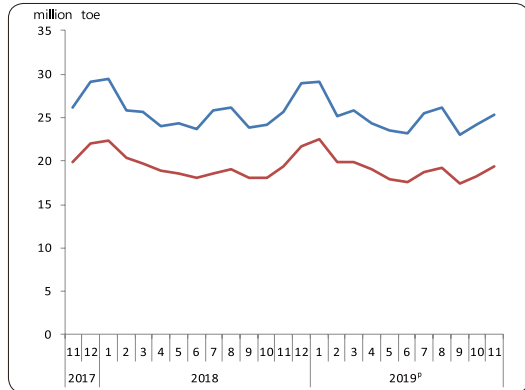


□ 1차에너지 공급, 최종에너지 소비 Primary energy supply, Final energy consumption

<1990~2018>

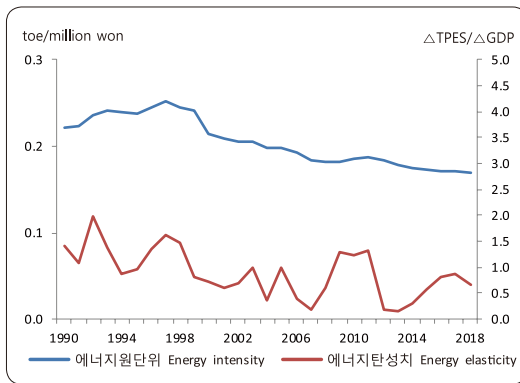


<월별 Monthly>

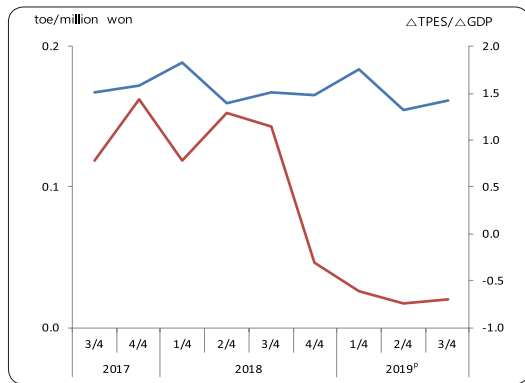


□ 에너지원단위, 에너지탄성치 Energy intensity, Energy elasticity

<1990~2018>

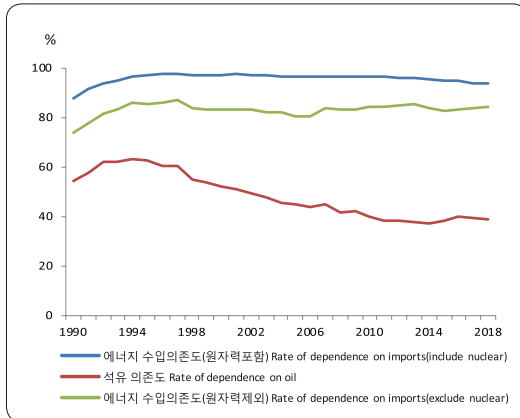


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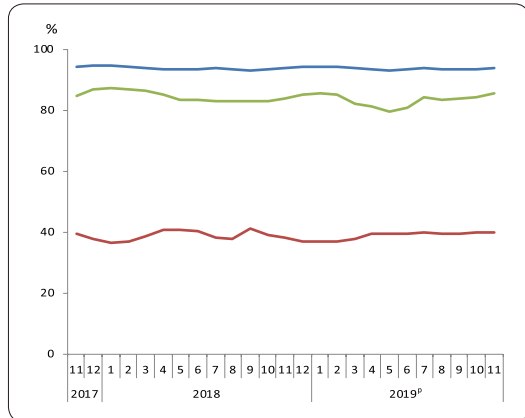


□ 에너지 수입의존도, 석유 의존도 Rate of dependence on imports, Rate of dependence on oil

<1990~2018>



<월별 Monthly>



1.1 주요 에너지지표

Major energy indicators

구 분	1차에너지 공급 TPES	최종에너지 소비 TFEC	에너지원단위 ¹ Energy intensity ¹	에너지탄성치 ¹ Energy elasticity ¹	에너지수입액 Energy import value	에너지 수입의존도 ² Rate of dependence on imports ²	석유 의존도 Rate of dependence on oil
	1,000 toe		toe/million won	△TPES/△GDP	million US\$	%	
1990	92,931	74,701	0.205	1.394	10,908	87.8	54.0
1995	149,841	121,333	0.219	0.967	19,053	96.8	62.7
1996	165,136	131,573	0.224	1.292	24,243	97.3	60.5
1997	181,058	144,541	0.231	1.555	27,308	97.6	60.4
1998	166,265	132,177	0.224	1.602	18,276	97.1	54.7
1999	181,651	143,027	0.219	0.805	22,745	97.2	53.7
2000	193,240	149,958	0.214	0.701	37,888	97.2	52.1
2001	198,865	153,103	0.210	0.594	33,894	97.3	50.7
2002	209,290	160,876	0.205	0.681	32,290	97.1	49.2
2003	215,772	164,550	0.205	0.999	38,306	96.9	47.8
2004	220,756	166,452	0.199	0.444	49,600	96.6	45.8
2005	229,301	171,176	0.199	0.900	66,697	96.6	44.6
2006	234,062	174,135	0.192	0.392	85,566	96.5	43.8
2007	236,678	181,498	0.184	0.193	94,978	96.6	44.7
2008	240,994	182,490	0.182	0.608	141,475	96.5	41.6
2009	243,500	181,491	0.182	1.300	91,160	96.5	42.1
2010	264,053	194,971	0.185	1.241	121,654	96.5	39.6
2011	276,997	204,788	0.187	1.325	172,490	96.5	38.1
2012	278,325	206,530	0.184	0.200	184,800	96.0	38.1
2013	279,623	208,016	0.179	0.146	178,698	95.7	37.7
2014	282,423	210,139	0.175	0.313	174,137	95.2	37.1
2015	286,932	214,974	0.173	0.570	102,715	94.8	38.0
2016	293,778	221,396	0.172	0.823	80,942	94.6	40.0
2017	302,066	230,019	0.172	0.882	109,466	94.0	39.5
2018	307,501	232,740	0.170	0.666	145,970	93.7	38.5
2017	11	26,144	19,846	-	-	94.0	39.3
	12	29,066	22,035	0.172	1.433	94.5	37.4
2018	1	29,472	22,327	-	-	94.5	36.3
	2	25,812	20,323	-	-	94.2	36.8
	3	25,714	19,684	0.189	0.784	93.9	38.4
	4	24,037	18,865	-	-	93.3	40.5
	5	24,300	18,619	-	-	93.4	40.8
	6	23,728	18,061	0.160	1.294	93.4	40.4
	7	25,822	18,530	-	-	93.5	38.2
	8	26,173	18,976	-	-	93.4	37.8
	9	23,785	18,140	0.167	1.150	93.0	41.1
	10	24,159	18,059	-	-	93.3	38.8
	11	25,581	19,417	-	-	93.7	38.0
	12	28,918	21,738	0.166	-0.304	94.2	36.7
2019 ^p	1	29,196	22,442	-	-	94.3	36.9
	2	25,201	19,900	-	-	94.2	36.8
	3	25,764	19,804	0.184	-0.608	93.6	37.8
	4	24,323	19,119	-	-	93.5	39.5
	5	23,442	17,926	-	-	93.0	39.2
	6	23,223	17,498	0.154	-0.747	93.3	39.2
	7	25,533	18,697	-	-	93.7	39.6
	8	26,103	19,294	-	-	93.4	39.5
	9	23,074	17,340	0.162	-0.706	93.4	39.2
	10	24,133	18,197	-	-	93.5	39.6
	11	25,325	19,426	-	-	93.9	39.6
2018	1-11	278,583	211,001	0.167	1.150	93.6	38.7
2019 ^p	1-11	275,316	209,643	0.162	-0.706	93.6	38.8

1. 월별 수치는 분기자료임.

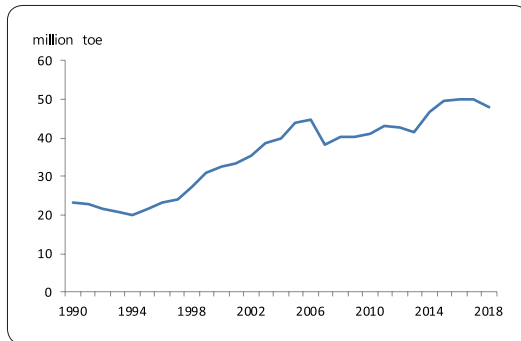
2. 원자력 발전을 국내생산에서 제외

1. Monthly figures are on quarterly basis.

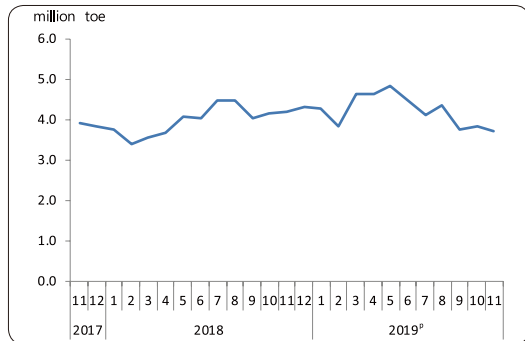
2. Exclude nuclear power from domestic production

□ 에너지 생산 Total energy production

<1990~2018>

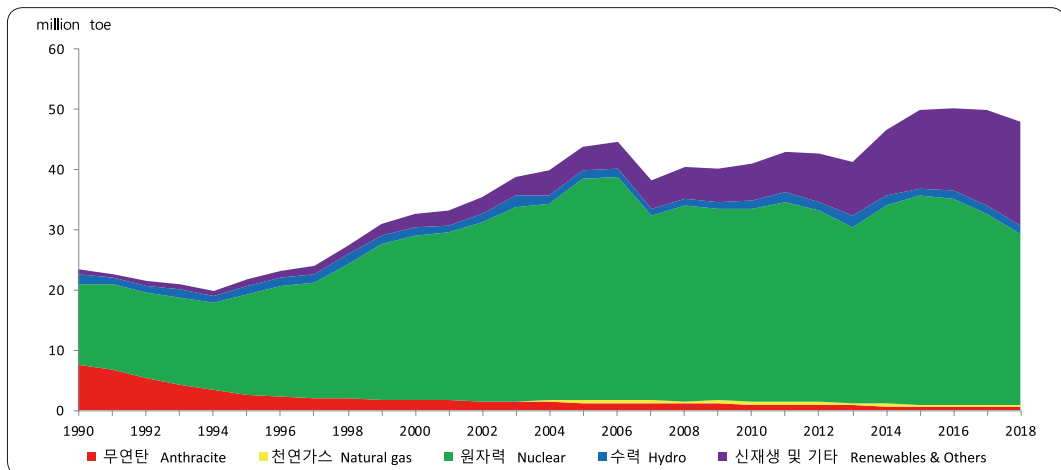


<월별 Monthly>

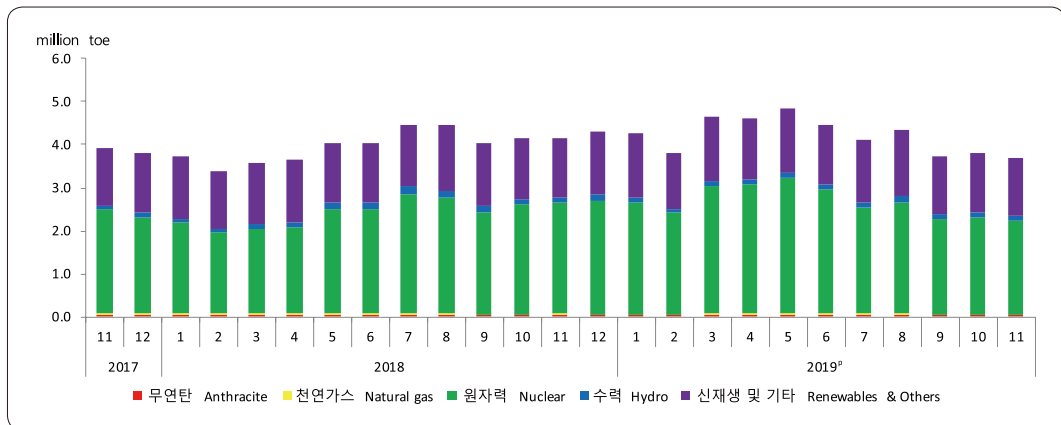


□ 에너지원별 생산 Energy production by source

<1990~2018>



<월별 Monthly>



1.2 에너지 생산

Energy production by source

구 분		합계	무연탄	천연가스 ¹	수력	원자력	신재생 및 기타 ²
		Total	Anthracite	Natural gas ¹	Hydro	Nuclear	Renewables & Others ²
		1,000 toe					
1990		23,357	7,748	-	1,590	13,222	797
1995		21,751	2,574	-	1,369	16,757	1,050
1996		23,170	2,228	-	1,300	18,481	1,161
1997		23,997	2,030	-	1,351	19,271	1,344
1998		27,435	1,962	-	1,525	22,422	1,526
1999		30,977	1,889	-	1,517	25,766	1,806
2000		32,641	1,868	-	1,402	27,241	2,130
2001		33,244	1,718	-	1,038	28,033	2,456
2002		35,521	1,493	-	1,327	29,776	2,925
2003		38,864	1,484	-	1,722	32,418	3,241
2004		39,769	1,436	212	1,465	32,679	3,977
2005		43,745	1,274	518	1,297	36,695	3,961
2006		44,582	1,271	461	1,305	37,187	4,358
2007		38,338	1,342	353	1,084	30,731	4,828
2008		40,376	1,289	236	1,196	32,456	5,198
2009		40,133	1,171	498	1,213	31,771	5,480
2010		40,912	969	539	1,391	31,948	6,064
2011		42,987	969	451	1,684	33,265	6,617
2012		42,748	942	436	1,615	31,719	8,036
2013		41,321	817	463	1,771	29,283	8,987
2014		46,716	787	322	1,650	33,002	10,956
2015		49,809	794	188	1,223	34,765	12,839
2016		50,087	777	154	1,400	34,181	13,575
2017		49,996	702	341	1,490	31,615	15,848
2018		47,977	568	305	1,549	28,437	17,119
2017	11	3,912	58	26	96	2,405	1,326
	12	3,814	58	28	100	2,223	1,405
2018	1	3,726	59	30	103	2,093	1,440
	2	3,373	46	27	94	1,873	1,333
	3	3,560	56	29	99	1,969	1,407
	4	3,658	56	29	106	2,007	1,460
	5	4,054	53	30	169	2,421	1,381
	6	4,022	54	29	156	2,408	1,376
	7	4,477	42	25	172	2,780	1,457
	8	4,473	42	28	149	2,716	1,538
	9	4,030	36	24	152	2,359	1,459
	10	4,147	41	9	108	2,574	1,416
	11	4,167	45	21	113	2,590	1,398
	12	4,290	37	23	128	2,648	1,454
2019 ^p	1	4,255	47	7	116	2,611	1,474
	2	3,812	38	23	100	2,350	1,301
	3	4,641	43	25	96	2,989	1,489
	4	4,624	49	27	113	3,014	1,421
	5	4,829	44	27	115	3,146	1,497
	6	4,461	40	26	102	2,893	1,399
	7	4,118	41	25	121	2,487	1,444
	8	4,328	40	25	128	2,598	1,537
	9	3,725	42	14	120	2,198	1,351
	10	3,813	41	7	115	2,258	1,391
	11	3,688	46	14	96	2,179	1,354
2018	1-11	43,687	531	282	1,421	25,789	15,665
2019 ^p	1-11	46,294	471	220	1,221	28,723	15,658

1. 동해-1 가스전 생산량

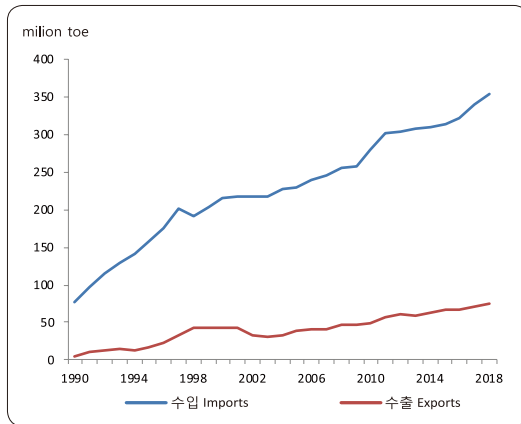
2. 기타: 폐기물을 이용하여 제조한 것

1. Production at Donghae-1 gas field

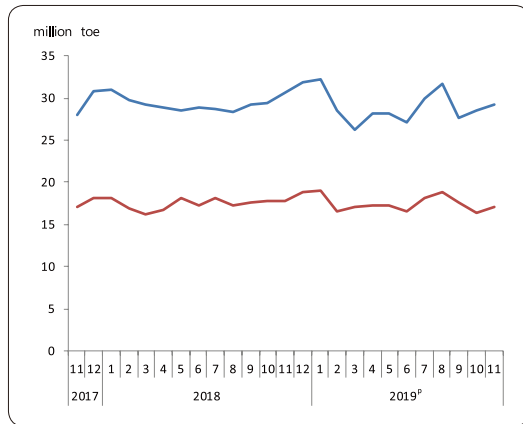
2. Others: The energy source is manufactured from the waste.

□ 에너지 수출입 Energy imports and exports

<1990~2018>

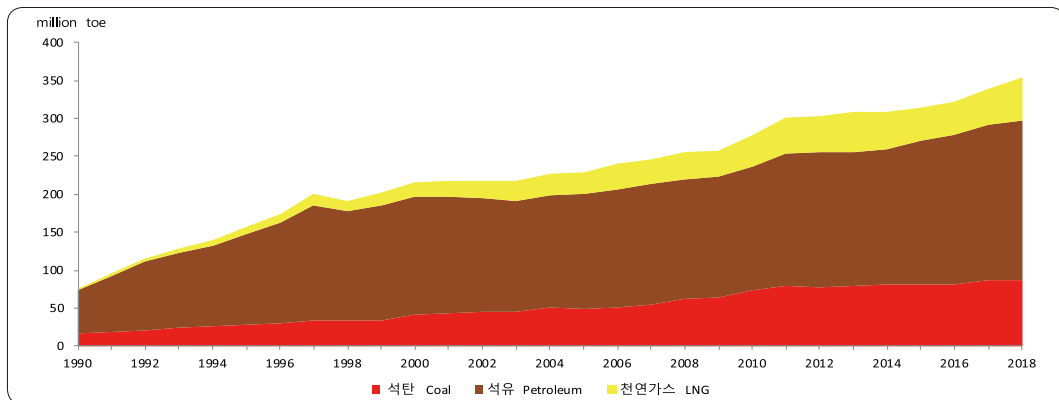


<월별 Monthly>

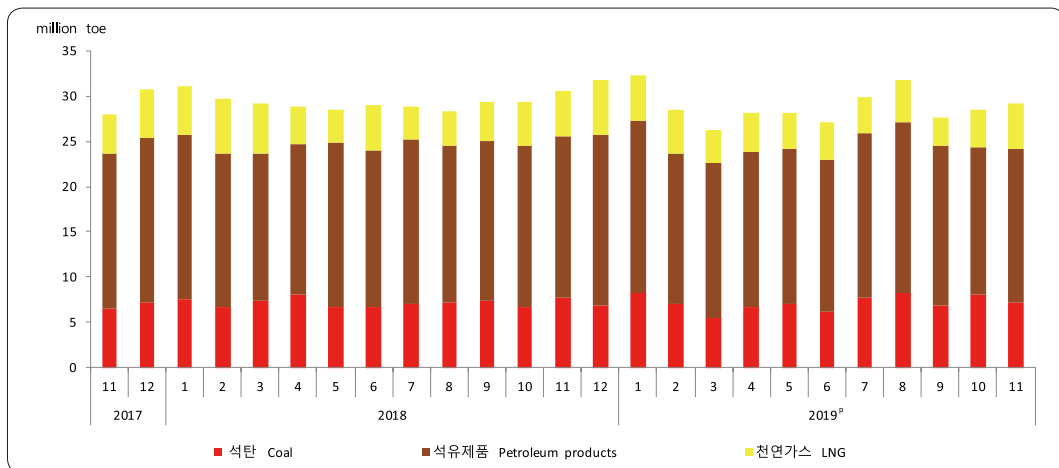


□ 에너지원별 수입 Energy imports by source

<1990~2018>



<월별 Monthly>



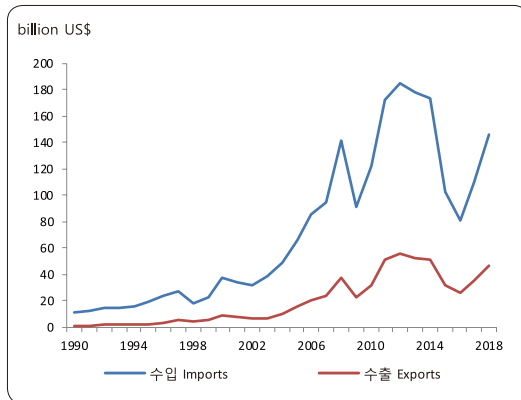
1.3.1 에너지 수출입

Energy imports and exports

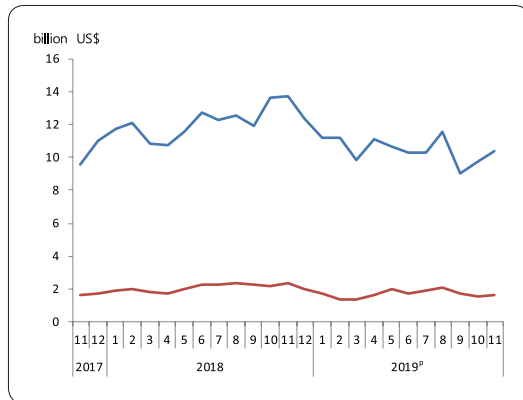
구 분		수입 Imports				수출 Exports	순수입
		합계	석탄	석유제품	천연가스	석유제품	Net imports
		Total	Coal	Petroleum products	LNG	Petroleum products	
1,000 toe							
1990		76,040	15,721	57,345	2,974	3,997	72,043
1995		156,664	28,550	118,936	9,178	17,748	138,916
1996		174,277	30,314	131,489	12,473	22,690	151,587
1997		200,894	32,979	152,797	15,118	33,143	167,750
1998		191,456	33,847	143,829	13,780	42,232	149,224
1999		202,665	34,410	151,391	16,865	42,544	160,121
2000		215,687	40,559	156,177	18,951	43,758	171,928
2001		217,250	42,691	153,545	21,013	42,143	175,107
2002		216,801	44,990	149,101	22,711	33,914	182,887
2003		217,031	45,894	145,872	25,264	30,025	187,005
2004		227,497	50,139	148,558	28,799	33,841	193,655
2005		229,255	48,498	151,713	29,044	38,071	191,184
2006		239,683	49,854	157,041	32,788	41,810	197,873
2007		246,306	54,237	158,831	33,239	41,801	204,505
2008		254,887	61,665	157,786	35,436	47,586	207,301
2009		256,573	63,431	159,574	33,568	46,897	209,677
2010		279,145	72,576	164,184	42,384	48,365	230,779
2011		300,906	79,860	173,355	47,690	57,722	243,183
2012		303,396	77,546	178,667	47,184	61,687	241,709
2013		307,932	79,230	176,703	51,998	59,910	248,021
2014		308,559	80,460	179,712	48,388	62,593	245,967
2015		313,516	81,688	188,320	43,509	66,279	247,237
2016		321,918	81,311	196,984	43,623	67,840	254,078
2017		339,687	85,869	204,794	49,023	70,629	269,058
2018		354,479	86,348	210,647	57,484	74,066	280,413
2017	11	27,961	6,604	17,024	4,332	6,131	21,830
	12	30,762	7,175	18,153	5,433	6,396	24,365
2018	1	31,053	7,564	18,100	5,389	6,318	24,735
	2	29,663	6,776	16,946	5,941	5,799	23,864
	3	29,245	7,467	16,180	5,598	5,304	23,941
	4	28,913	7,997	16,727	4,189	5,811	23,102
	5	28,445	6,658	18,164	3,622	6,509	21,936
	6	28,938	6,747	17,305	4,886	6,030	22,908
	7	28,770	7,056	18,136	3,578	6,180	22,590
	8	28,350	7,282	17,287	3,781	6,687	21,663
	9	29,301	7,397	17,570	4,335	6,230	23,072
	10	29,394	6,757	17,708	4,930	6,860	22,534
	11	30,587	7,727	17,768	5,092	6,109	24,478
	12	31,821	6,921	18,757	6,143	6,231	25,590
2019 ^p	1	32,253	8,264	19,006	4,984	6,971	25,282
	2	28,501	7,065	16,497	4,938	5,493	23,008
	3	26,287	5,548	17,122	3,617	5,466	20,821
	4	28,170	6,612	17,189	4,369	6,286	21,883
	5	28,106	6,981	17,255	3,870	5,803	22,303
	6	27,087	6,251	16,629	4,207	5,658	21,429
	7	29,906	7,790	18,174	3,942	6,390	23,516
	8	31,757	8,277	18,792	4,688	6,263	25,494
	9	27,706	6,903	17,559	3,243	6,168	21,537
	10	28,497	8,003	16,323	4,171	6,132	22,366
	11	29,144	7,154	17,036	4,953	5,698	23,446
2018	1-11	322,658	79,426	191,891	51,341	67,836	254,822
2019 ^p	1-11	317,413	78,850	191,581	46,982	66,328	251,085

□ 에너지 수출입액 Energy export and import value

<1990~2018>

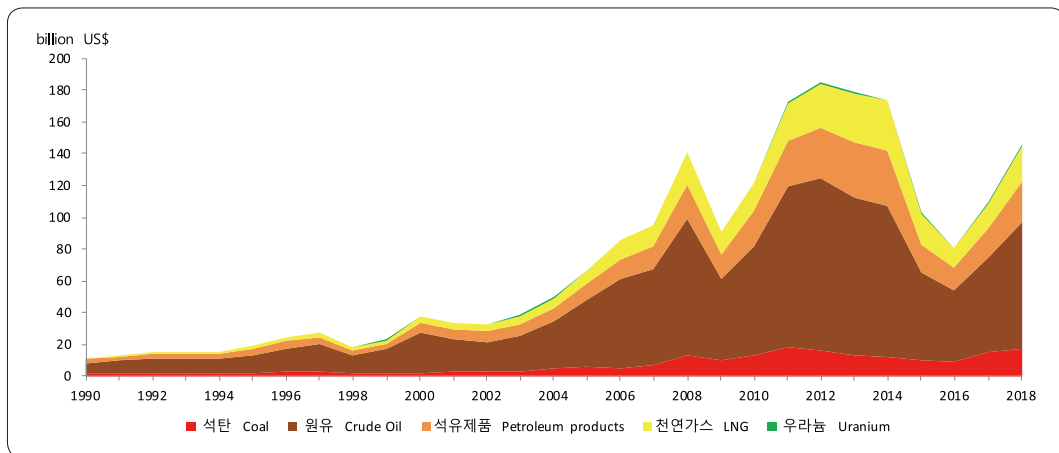


<월별 Monthly>

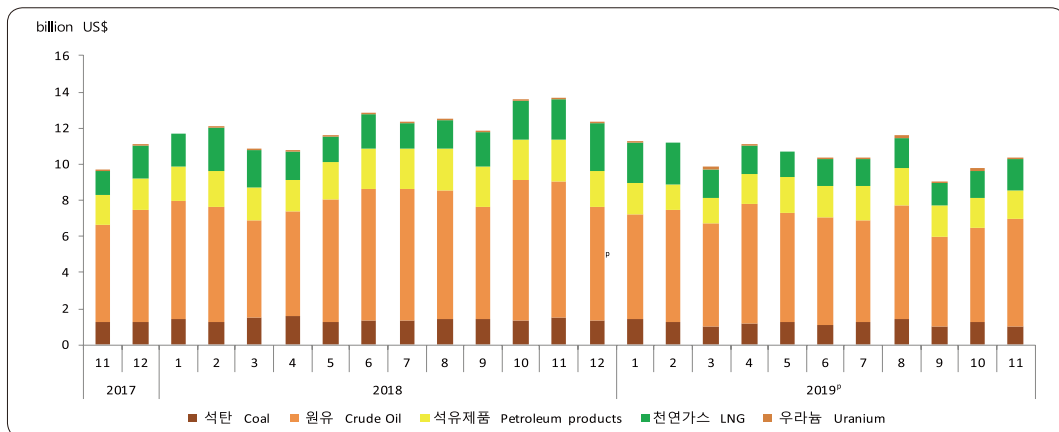


□ 에너지원별 수입액 Import value by energy source

<1990~2018>



<월별 Monthly>



1.3.2 에너지 수출입액

Energy export and import value

구 분		수입 Imports						수출 Exports	수입액 비중 Energy/Total import
		합계	석탄	원유	석유제품	천연가스	우라늄	석유제품	
		Total	Coal	Crude Oil	Petroleum products	LNG	Uranium	Petroleum products	
		million US\$							%
1990		10,908	1,288	6,386	2,774	460	1	650	15.6
1995		19,053	2,081	10,809	4,673	1,275	215	2,393	14.1
1996		24,243	2,337	14,432	5,395	1,878	201	3,809	16.1
1997		27,308	2,399	17,772	4,606	2,296	236	5,259	18.9
1998		18,276	2,229	11,241	3,043	1,549	214	4,523	19.6
1999		22,745	1,966	14,783	3,802	1,973	222	5,709	19.0
2000		37,888	2,186	25,216	6,379	3,882	225	9,257	23.6
2001		33,894	2,347	21,368	5,956	3,990	233	7,910	24.0
2002		32,290	2,475	19,200	6,214	4,120	280	6,446	21.2
2003		38,306	2,552	23,082	7,325	5,082	265	6,721	21.4
2004		49,600	4,438	29,917	8,357	6,552	336	10,272	22.1
2005		66,697	5,443	42,606	9,716	8,646	286	15,444	25.5
2006		85,566	5,318	55,865	12,119	11,925	339	20,505	27.7
2007		94,978	6,445	60,324	15,066	12,653	489	24,060	26.6
2008		141,475	12,810	85,855	22,275	19,806	729	37,684	32.5
2009		91,160	9,995	50,757	15,811	13,875	722	23,069	28.2
2010		121,654	13,131	68,662	22,241	17,006	615	31,699	28.6
2011		172,490	18,477	100,806	28,541	23,859	807	51,794	32.9
2012		184,800	16,069	108,298	32,373	27,364	695	56,385	35.6
2013		178,698	13,074	99,333	34,628	30,645	1,018	53,011	34.7
2014		174,137	12,114	94,907	34,983	31,403	731	51,025	33.1
2015		102,715	9,961	55,120	17,986	18,779	869	32,192	23.5
2016		80,942	9,310	44,295	14,579	12,170	589	26,668	19.9
2017		109,466	15,179	59,603	18,077	15,616	991	35,286	22.9
2018		145,970	16,703	80,393	25,109	23,189	576	46,751	27.3
2017	11	9,596	1,219	5,447	1,602	1,328	0	3,448	23
	12	11,048	1,237	6,223	1,754	1,789	46	3,413	25
2018	1	11,717	1,431	6,510	1,907	1,870	0	3,680	26
	2	12,059	1,266	6,360	2,018	2,353	62	3,348	29
	3	10,796	1,496	5,359	1,847	2,094	0	3,078	24
	4	10,774	1,551	5,847	1,764	1,554	58	3,979	25
	5	11,512	1,294	6,766	2,020	1,415	18	3,966	26
	6	12,745	1,305	7,309	2,224	1,907	0	4,114	28
	7	12,271	1,348	7,260	2,230	1,423	10	3,952	27
	8	12,535	1,428	7,158	2,318	1,541	90	4,283	28
	9	11,870	1,458	6,154	2,292	1,865	101	4,286	29
	10	13,621	1,323	7,818	2,210	2,189	80	4,583	28
	11	13,674	1,475	7,533	2,317	2,278	71	3,957	29
	12	12,395	1,328	6,318	1,962	2,701	87	3,525	28
2019 ^p	1	11,224	1,459	5,737	1,739	2,240	50	3,630	25
	2	11,165	1,288	6,178	1,376	2,323	0	3,013	30
	3	9,834	1,009	5,716	1,385	1,560	164	3,049	23
	4	11,085	1,163	6,610	1,644	1,612	56	3,912	25
	5	10,690	1,268	6,003	1,992	1,427	0	3,545	25
	6	10,300	1,119	5,925	1,734	1,515	7	3,046	26
	7	10,280	1,240	5,681	1,871	1,474	15	3,571	23
	8	11,575	1,395	6,312	2,056	1,720	92	3,596	27
	9	9,045	971	4,977	1,745	1,266	85	3,553	23
	10	9,787	1,217	5,292	1,584	1,530	164	3,362	24
	11	10,407	1,025	5,928	1,626	1,723	104	3,467	26
2018	1-11	133,575	15,375	74,075	23,147	20,488	490	43,227	27
2019 ^p	1-11	115,393	13,152	64,360	18,753	18,391	736	37,746	25

주: 수입액은 CIF, 수출액은 FOB 기준.

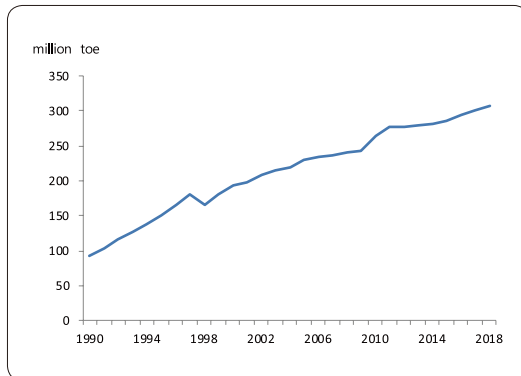
Note: Import values are based on CIF, and export values are based on FOB.

자료: 한국무역협회

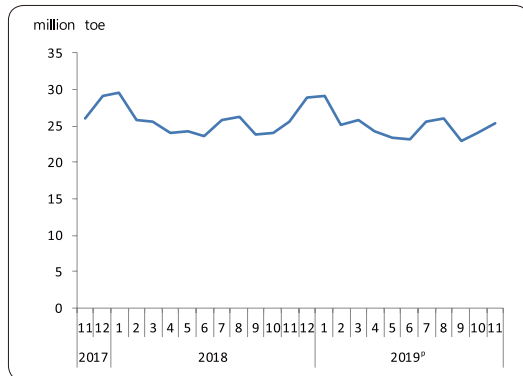
Source: Korea International Trade Association

□ 1차에너지 공급 Total primary energy supply

<1990~2018>

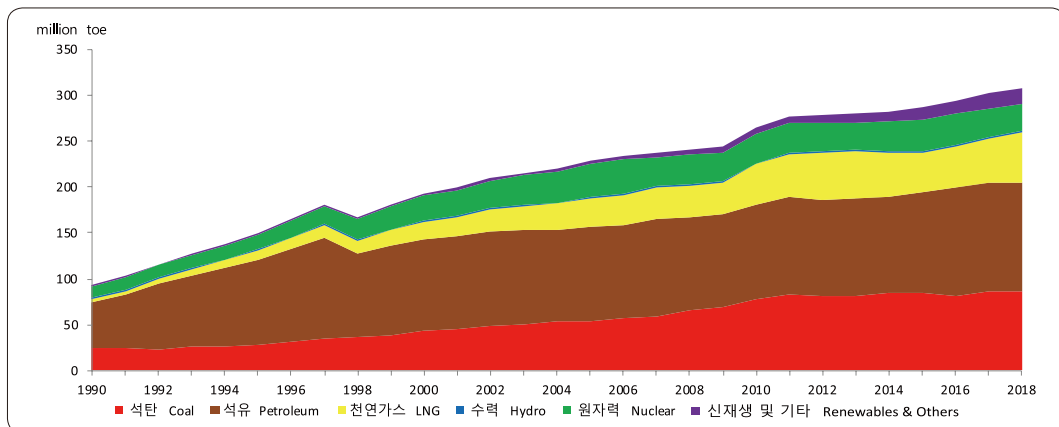


<월별 Monthly>

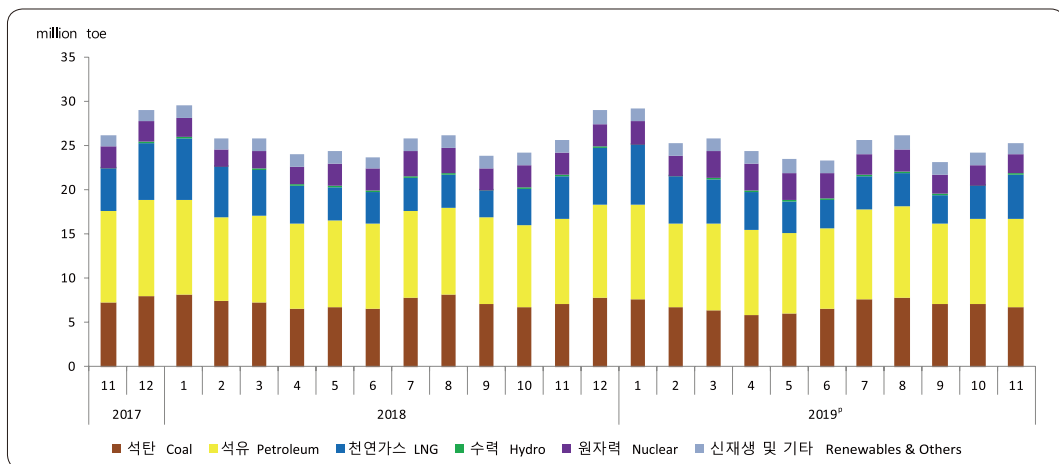


□ 에너지원별 1차에너지 공급 Primary energy supply by source

<1990~2018>



<월별 Monthly>



1.4.1 1차에너지 공급

Primary energy supply by source

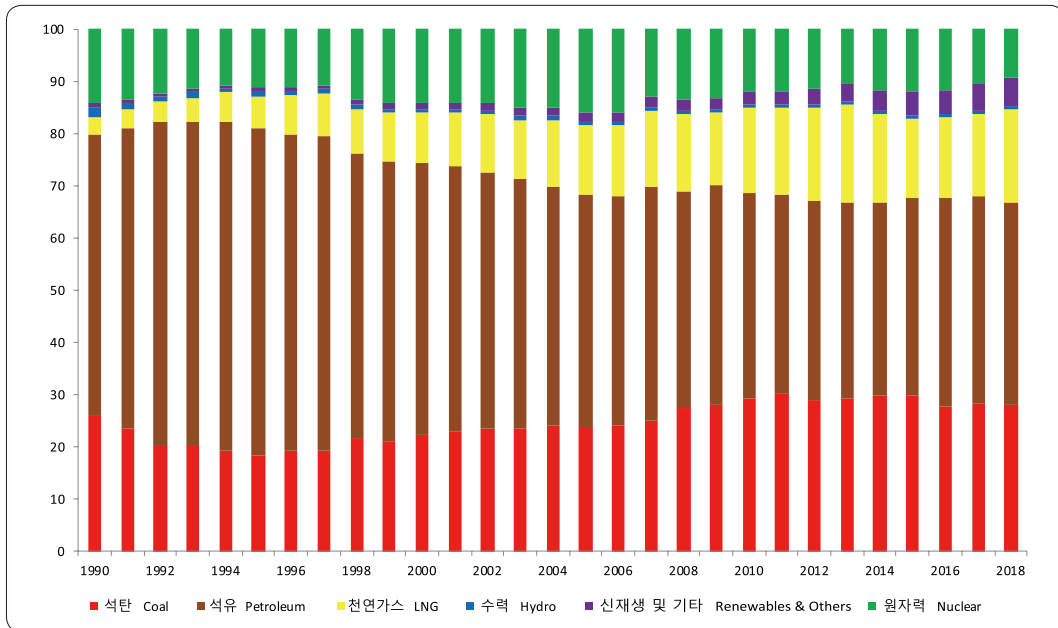
구 분		합계 Total	석탄 Coal	석유 Petroleum	천연가스 LNG	수력 Hydro	원자력 Nuclear	신재생 및 기타 ¹ Renewables & Others ¹
		1,000 toe						
1990		92,931	24,124	50,175	3,023	1,590	13,222	797
1995		149,841	27,495	93,956	9,213	1,369	16,757	1,050
1996		165,136	32,100	99,923	12,172	1,300	18,481	1,161
1997		181,058	34,927	109,372	14,792	1,351	19,271	1,344
1998		166,265	36,051	90,904	13,838	1,525	22,422	1,526
1999		181,651	38,157	97,556	16,849	1,517	25,766	1,806
2000		193,240	42,925	100,618	18,924	1,402	27,241	2,130
2001		198,865	45,724	100,827	20,787	1,038	28,033	2,456
2002		209,290	49,131	103,034	23,096	1,327	29,776	2,925
2003		215,772	51,124	103,073	24,194	1,722	32,418	3,241
2004		220,756	53,198	101,085	28,351	1,465	32,679	3,977
2005		229,301	54,795	102,197	30,355	1,297	36,695	3,961
2006		234,062	56,652	102,555	32,004	1,305	37,187	4,358
2007		236,678	59,653	105,718	34,663	1,084	30,731	4,828
2008		240,994	66,100	100,373	35,671	1,196	32,456	5,198
2009		243,500	68,595	102,534	33,908	1,213	31,771	5,480
2010		264,053	77,142	104,499	43,008	1,391	31,948	6,064
2011		276,997	83,687	105,459	46,284	1,684	33,265	6,617
2012		278,325	80,636	106,134	50,185	1,615	31,719	8,036
2013		279,623	81,544	105,515	52,523	1,771	29,283	8,987
2014		282,423	84,399	104,643	47,773	1,650	33,002	10,956
2015		286,932	85,401	109,090	43,613	1,223	34,765	12,839
2016		293,778	81,499	117,605	45,518	1,400	34,181	13,575
2017		302,066	86,177	119,400	47,536	1,490	31,615	15,848
2018		307,501	86,651	118,521	55,224	1,549	28,437	17,119
2017	11	26,144	7,240	10,270	4,806	96	2,405	1,326
	12	29,066	7,893	10,876	6,569	100	2,223	1,405
2018	1	29,472	8,121	10,702	7,013	103	2,093	1,440
	2	25,812	7,332	9,492	5,688	94	1,873	1,333
	3	25,714	7,181	9,869	5,189	99	1,969	1,407
	4	24,037	6,487	9,739	4,238	106	2,007	1,460
	5	24,300	6,642	9,905	3,782	169	2,421	1,381
	6	23,728	6,588	9,594	3,606	156	2,408	1,376
	7	25,822	7,757	9,859	3,797	172	2,780	1,457
	8	26,173	8,127	9,889	3,754	149	2,716	1,538
	9	23,785	7,064	9,768	2,984	152	2,359	1,459
	10	24,159	6,670	9,369	4,022	108	2,574	1,416
	11	25,581	6,994	9,714	4,772	113	2,590	1,398
	12	28,918	7,687	10,620	6,381	128	2,648	1,454
2019 ^p	1	29,196	7,587	10,783	6,625	116	2,611	1,474
	2	25,201	6,782	9,284	5,383	100	2,350	1,301
	3	25,764	6,409	9,747	5,035	96	2,989	1,489
	4	24,323	5,782	9,612	4,381	113	3,014	1,421
	5	23,442	5,904	9,180	3,600	115	3,146	1,497
	6	23,223	6,472	9,112	3,245	102	2,893	1,399
	7	25,533	7,599	10,114	3,768	121	2,487	1,444
	8	26,103	7,797	10,306	3,737	128	2,598	1,537
	9	23,074	7,123	9,045	3,237	120	2,198	1,351
	10	24,133	7,136	9,558	3,675	115	2,258	1,391
	11	25,325	6,735	10,037	4,925	96	2,179	1,354
2018	1-11	278,583	78,964	107,901	48,843	1,421	25,789	15,665
2019 ^p	1-11	275,316	75,325	106,776	47,612	1,221	28,723	15,658

1. 기타: 폐기물을 이용하여 제조한 것

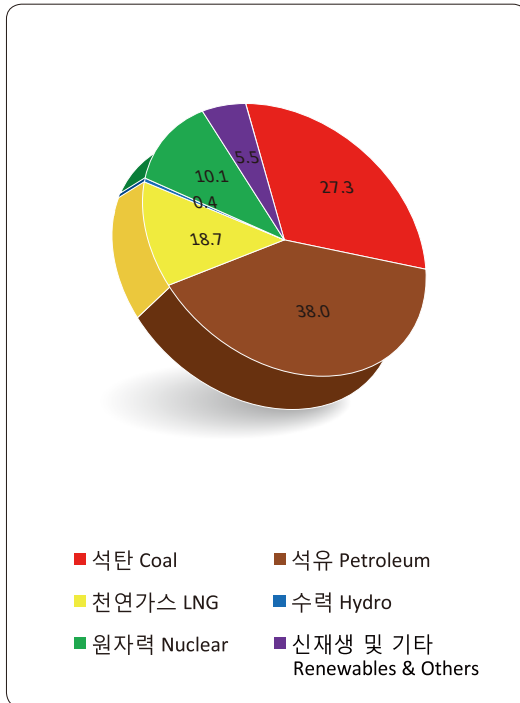
1. Others: The energy source is manufactured from the waste

□ 1차에너지 공급 구성비 Composition rate of primary energy supply(%)

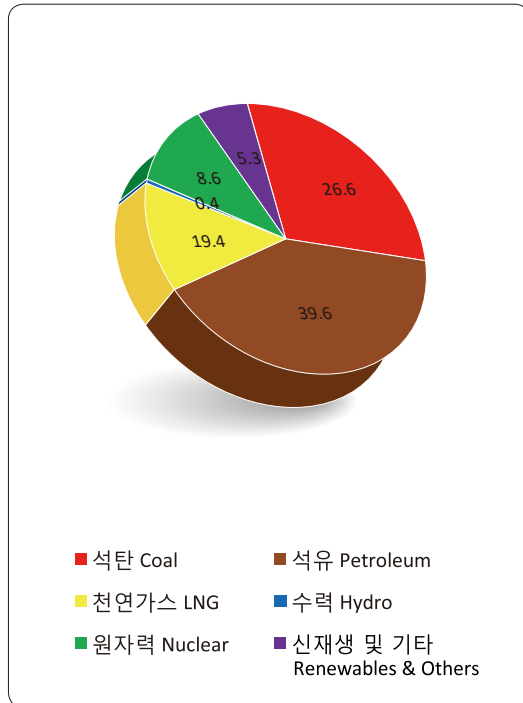
<1990~2018>



□ 2018년 11월 November 2018(%)



□ 2019년 11월 November 2019^o(%)



1.4.2 1차에너지 원별 구성비

Composition rate of primary energy supply

구 분		석탄	석유	천연가스	수력	원자력	신재생 및 기타¹
		Coal	Petroleum	LNG	Hydro	Nuclear	Renewables & Others¹
		%					
1990		26.0	54.0	3.3	1.7	14.2	0.9
1995		18.3	62.7	6.1	0.9	11.2	0.7
1996		19.4	60.5	7.4	0.8	11.2	0.7
1997		19.3	60.4	8.2	0.7	10.6	0.7
1998		21.7	54.7	8.3	0.9	13.5	0.9
1999		21.0	53.7	9.3	0.8	14.2	1.0
2000		22.2	52.1	9.8	0.7	14.1	1.1
2001		23.0	50.7	10.5	0.5	14.1	1.2
2002		23.5	49.2	11.0	0.6	14.2	1.4
2003		23.7	47.8	11.2	0.8	15.0	1.5
2004		24.1	45.8	12.8	0.7	14.8	1.8
2005		23.9	44.6	13.2	0.6	16.0	1.7
2006		24.2	43.8	13.7	0.6	15.9	1.9
2007		25.2	44.7	14.6	0.5	13.0	2.0
2008		27.4	41.6	14.8	0.5	13.5	2.2
2009		28.2	42.1	13.9	0.5	13.0	2.3
2010		29.2	39.6	16.3	0.5	12.1	2.3
2011		30.2	38.1	16.7	0.6	12.0	2.4
2012		29.0	38.1	18.0	0.6	11.4	2.9
2013		29.2	37.7	18.8	0.6	10.5	3.2
2014		29.9	37.1	16.9	0.6	11.7	3.9
2015		29.8	38.0	15.2	0.4	12.1	4.5
2016		27.7	40.0	15.5	0.5	11.6	4.6
2017		28.5	39.5	15.7	0.5	10.5	5.2
2018		28.2	38.5	18.0	0.5	9.2	5.6
2017	11	27.7	39.3	18.4	0.4	9.2	5.1
	12	27.2	37.4	22.6	0.3	7.6	4.8
2018	1	27.6	36.3	23.8	0.3	7.1	4.9
	2	28.4	36.8	22.0	0.4	7.3	5.2
	3	27.9	38.4	20.2	0.4	7.7	5.5
	4	27.0	40.5	17.6	0.4	8.3	6.1
	5	27.3	40.8	15.6	0.7	10.0	5.7
	6	27.8	40.4	15.2	0.7	10.1	5.8
	7	30.0	38.2	14.7	0.7	10.8	5.6
	8	31.1	37.8	14.3	0.6	10.4	5.9
	9	29.7	41.1	12.5	0.6	9.9	6.1
	10	27.6	38.8	16.6	0.4	10.7	5.9
	11	27.3	38.0	18.7	0.4	10.1	5.5
	12	26.6	36.7	22.1	0.4	9.2	5.0
2019 ^p	1	26.0	36.9	22.7	0.4	8.9	5.0
	2	26.9	36.8	21.4	0.4	9.3	5.2
	3	24.9	37.8	19.5	0.4	11.6	5.8
	4	23.8	39.5	18.0	0.5	12.4	5.8
	5	25.2	39.2	15.4	0.5	13.4	6.4
	6	27.9	39.2	14.0	0.4	12.5	6.0
	7	29.8	39.6	14.8	0.5	9.7	5.7
	8	29.9	39.5	14.3	0.5	10.0	5.9
	9	30.9	39.2	14.0	0.5	9.5	5.9
	10	29.6	39.6	15.2	0.5	9.4	5.8
	11	26.6	39.6	19.4	0.4	8.6	5.3
2018	1-11	28.3	38.7	17.5	0.5	9.3	5.6
2019 ^p	1-11	27.4	38.8	17.3	0.4	10.4	5.7

1. 기타: 폐기물을 이용하여 제조한 것

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

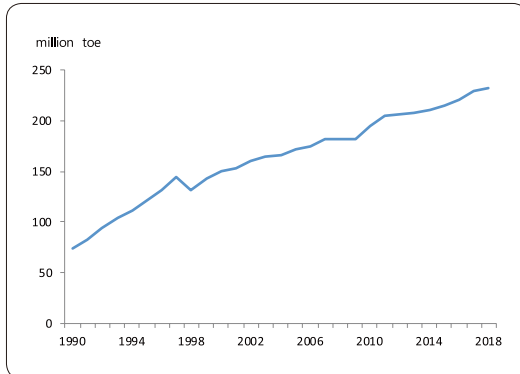
2. 최종에너지 소비

Final energy consumption

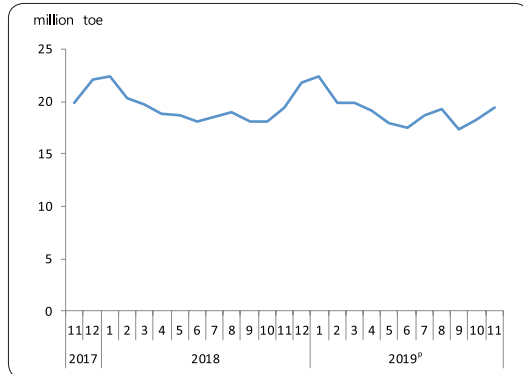


□ 최종에너지 소비 Total final energy consumption

<1990~2018>

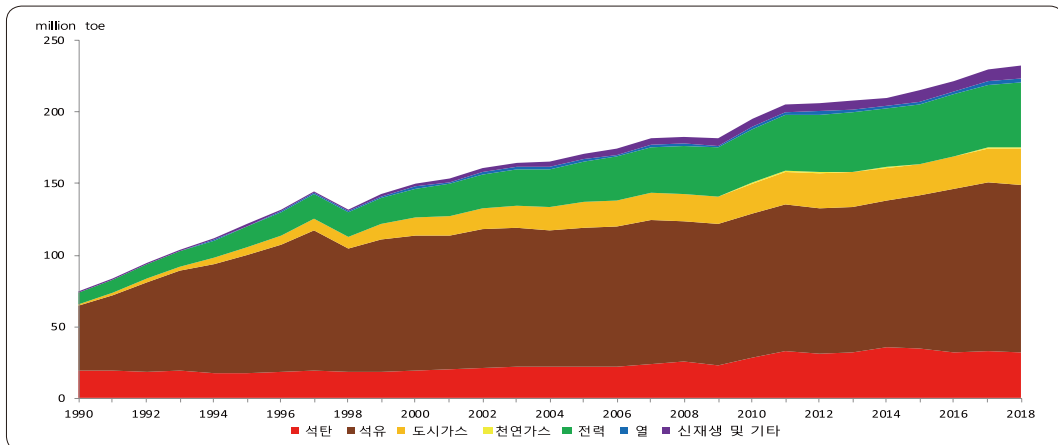


<월별 Monthly>

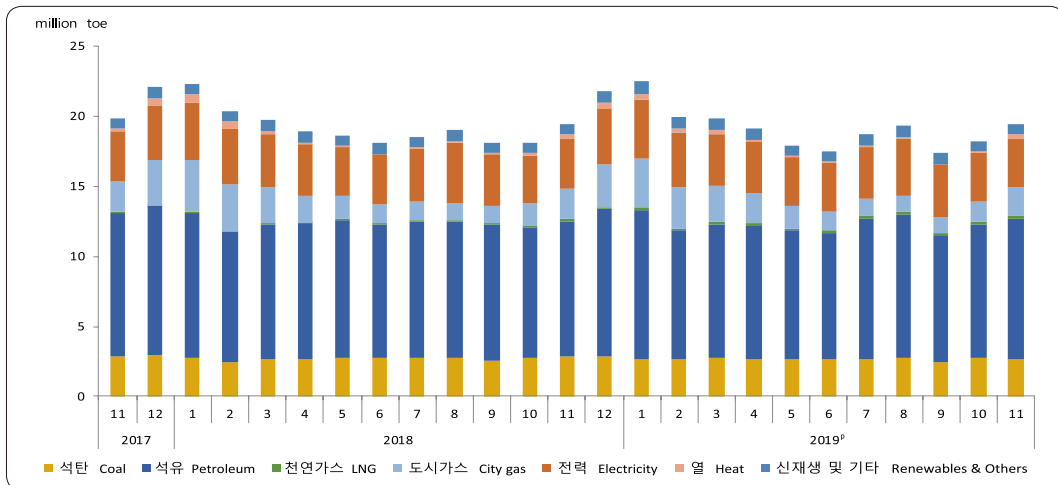


□ 에너지원별 최종에너지 소비 Final energy consumption by source

<1990~2018>



<월별 Monthly>



2.1.1 최종에너지 원별 소비

Final energy consumption by source

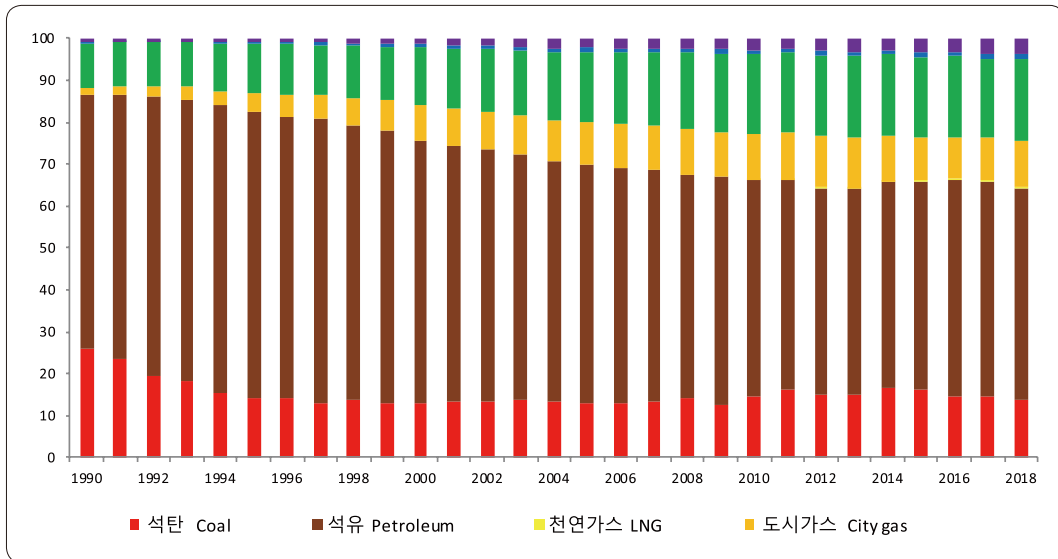
구 분		합계	석탄	석유	천연가스	도시가스	전력	열	신재생 및 기타¹
		Total	Coal	Petroleum	LNG	City gas	Electricity	Heat	Renewables & Others¹
		1,000 toe							
1990		74,701	19,454	45,252	-	1,011	8,111	75	797
1995		121,333	17,327	82,679	-	5,594	14,041	641	1,050
1996		131,573	18,406	88,566	-	6,937	15,692	811	1,161
1997		144,541	18,891	98,036	-	8,093	17,267	909	1,344
1998		132,177	17,993	86,712	-	8,425	16,638	882	1,526
1999		143,027	18,325	92,928	-	10,513	18,422	1,033	1,806
2000		149,958	19,661	93,839	0	12,561	20,600	1,167	2,130
2001		153,103	20,357	93,617	-	13,290	22,165	1,218	2,456
2002		160,876	21,485	96,635	-	14,567	23,947	1,316	2,925
2003		164,550	22,428	96,669	-	15,470	25,250	1,523	3,210
2004		166,452	22,100	95,942	-	16,193	26,840	1,449	3,928
2005		171,176	22,154	97,076	-	17,811	28,588	1,652	3,896
2006		174,135	22,461	97,665	-	18,379	29,990	1,549	4,092
2007		181,498	24,056	100,720	-	18,955	31,700	1,576	4,491
2008		182,490	25,879	97,316	-	19,765	33,116	1,668	4,747
2009		181,491	23,015	98,516	-	19,459	33,925	1,709	4,867
2010		194,971	28,189	100,519	559	21,081	37,338	1,939	5,346
2011		204,788	32,860	102,294	801	22,871	39,136	1,976	4,850
2012		206,530	31,017	101,683	717	24,728	40,127	2,102	6,156
2013		208,016	31,603	101,522	467	24,878	40,837	2,070	6,639
2014		210,139	35,198	102,664	460	23,041	41,073	1,528	6,175
2015		214,974	34,849	106,854	437	21,678	41,594	1,967	7,595
2016		221,396	32,342	114,264	504	22,186	42,745	2,183	7,173
2017		230,019	33,360	117,861	795	23,258	43,666	2,441	8,638
2018		232,740	32,424	116,831	1,466	24,979	45,249	2,682	9,110
2017	11	19,846	2,909	10,173	74	2,153	3,551	277	709
	12	22,035	2,947	10,615	79	3,219	3,937	476	762
2018	1	22,327	2,740	10,381	78	3,648	4,159	535	787
	2	20,323	2,486	9,228	72	3,331	4,020	445	741
	3	19,684	2,616	9,638	79	2,630	3,693	294	734
	4	18,865	2,640	9,679	77	1,931	3,615	167	756
	5	18,619	2,768	9,837	109	1,556	3,486	109	753
	6	18,061	2,744	9,509	126	1,330	3,530	72	750
	7	18,530	2,733	9,713	149	1,288	3,787	70	790
	8	18,976	2,734	9,733	152	1,205	4,260	64	828
	9	18,140	2,515	9,716	139	1,187	3,761	61	762
	10	18,059	2,773	9,252	155	1,588	3,438	143	709
	11	19,417	2,832	9,640	164	2,190	3,604	257	731
	12	21,738	2,844	10,503	166	3,093	3,897	465	770
2019 ^p	1	22,442	2,640	10,638	170	3,479	4,183	489	842
	2	19,900	2,611	9,196	166	2,972	3,814	398	743
	3	19,804	2,733	9,551	155	2,561	3,706	296	802
	4	19,119	2,661	9,520	179	2,135	3,650	173	800
	5	17,926	2,694	9,115	156	1,580	3,501	102	779
	6	17,498	2,641	9,045	178	1,311	3,493	74	755
	7	18,697	2,654	10,028	204	1,244	3,695	77	796
	8	19,294	2,746	10,223	202	1,157	4,090	66	810
	9	17,340	2,433	9,002	191	1,144	3,754	65	752
	10	18,197	2,762	9,505	196	1,394	3,494	134	712
	11	19,426	2,699	9,966	183	2,049	3,536	257	736
2018	1-11	211,001	29,580	106,327	1,300	21,885	41,351	2,217	8,340
2019 ^p	1-11	209,643	29,276	105,789	1,978	21,025	40,916	2,131	8,528

1. 기타: 폐기물을 이용하여 제조한 것

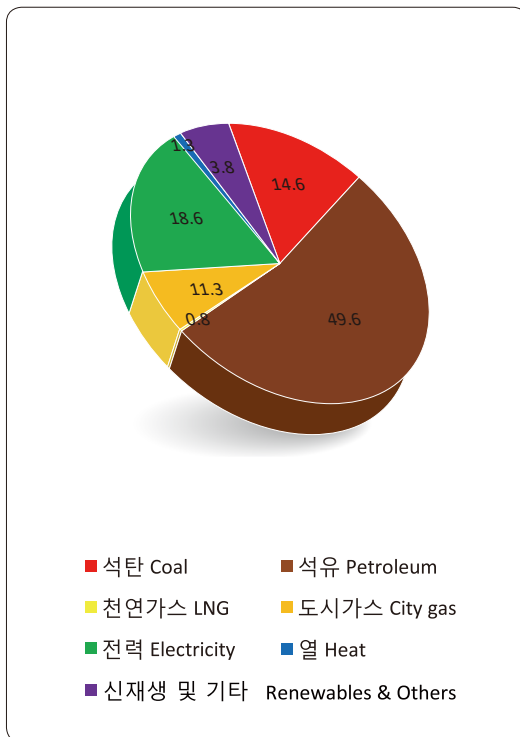
1. Others: The energy source is manufactured from the waste.

□ 최종에너지 원별 구성비 Composition rate of final energy supply(%)

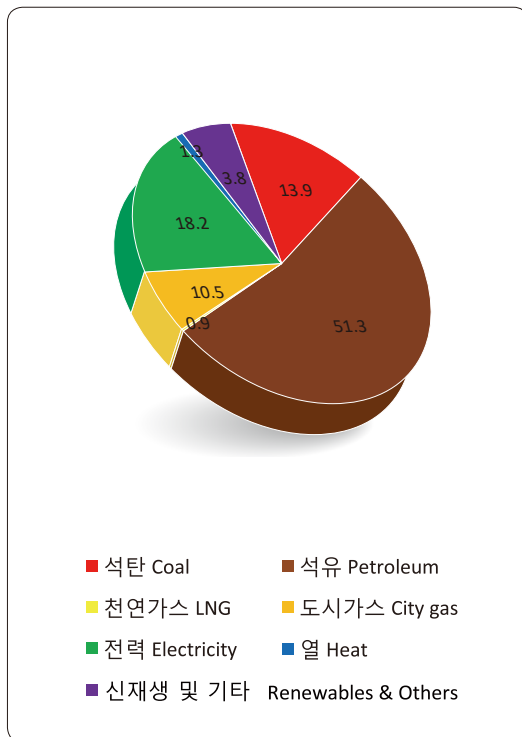
<1990~2018>



□ 2018년 11월 November 2018(%)



□ 2019년 11월 November 2019^P(%)



2.1.2 최종에너지 원별 구성비

Composition rate of final energy consumption

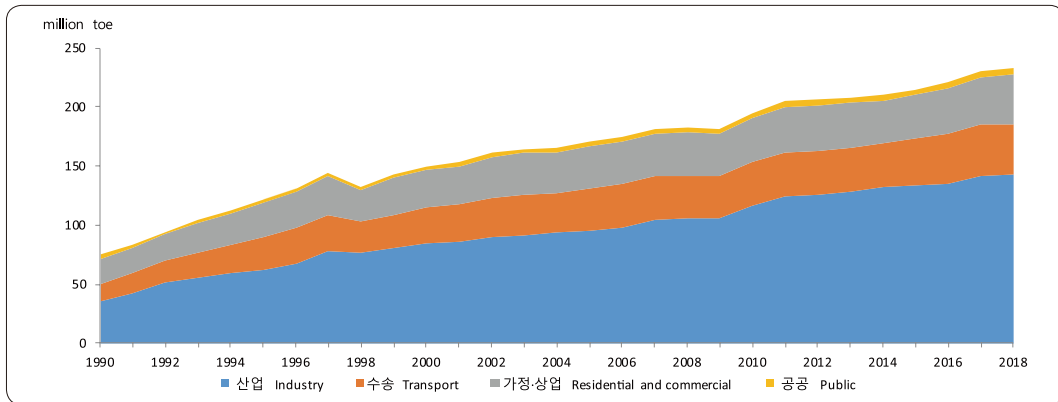
구 분		석탄 Coal	석유 Petroleum	천연가스 LNG	도시가스 City gas	전력 Electricity	열 Heat	신재생 및 기타 ¹⁾ Renewables & Others ²
		%						
1990		26.0	60.6	0.0	1.4	10.9	0.1	1.1
1995		14.3	68.1	0.0	4.6	11.6	0.5	0.9
1996		14.0	67.3	0.0	5.3	11.9	0.6	0.9
1997		13.1	67.8	0.0	5.6	11.9	0.6	0.9
1998		13.6	65.6	0.0	6.4	12.6	0.7	1.2
1999		12.8	65.0	0.0	7.4	12.9	0.7	1.3
2000		13.1	62.6	0.0	8.4	13.7	0.8	1.4
2001		13.3	61.1	0.0	8.7	14.5	0.8	1.6
2002		13.4	60.1	0.0	9.1	14.9	0.8	1.8
2003		13.6	58.7	0.0	9.4	15.3	0.9	2.0
2004		13.3	57.6	0.0	9.7	16.1	0.9	2.4
2005		12.9	56.7	0.0	10.4	16.7	1.0	2.3
2006		12.9	56.1	0.0	10.6	17.2	0.9	2.3
2007		13.3	55.5	0.0	10.4	17.5	0.9	2.5
2008		14.2	53.3	0.0	10.8	18.1	0.9	2.6
2009		12.7	54.3	0.0	10.7	18.7	0.9	2.7
2010		14.5	51.6	0.3	10.8	19.2	1.0	2.7
2011		16.0	50.0	0.4	11.2	19.1	1.0	2.4
2012		15.0	49.2	0.3	12.0	19.4	1.0	3.0
2013		15.2	48.8	0.2	12.0	19.6	1.0	3.2
2014		16.7	48.9	0.2	11.0	19.5	0.7	2.9
2015		16.2	49.7	0.2	10.1	19.3	0.9	3.5
2016		14.6	51.6	0.2	10.0	19.3	1.0	3.2
2017		14.5	51.2	0.3	10.1	19.0	1.1	3.8
2018		13.9	50.2	0.6	10.7	19.4	1.2	3.9
2017	11	14.7	51.3	0.4	10.8	17.9	1.4	3.6
	12	13.4	48.2	0.4	14.6	17.9	2.2	3.5
2018	1	12.3	46.5	0.3	16.3	18.6	2.4	3.5
	2	12.2	45.4	0.4	16.4	19.8	2.2	3.6
	3	13.3	49.0	0.4	13.4	18.8	1.5	3.7
	4	14.0	51.3	0.4	10.2	19.2	0.9	4.0
	5	14.9	52.8	0.6	8.4	18.7	0.6	4.0
	6	15.2	52.6	0.7	7.4	19.5	0.4	4.2
	7	14.7	52.4	0.8	7.0	20.4	0.4	4.3
	8	14.4	51.3	0.8	6.4	22.4	0.3	4.4
	9	13.9	53.6	0.8	6.5	20.7	0.3	4.2
	10	15.4	51.2	0.9	8.8	19.0	0.8	3.9
	11	14.6	49.6	0.8	11.3	18.6	1.3	3.8
	12	13.1	48.3	0.8	14.2	17.9	2.1	3.5
2019 ^p	1	11.8	47.4	0.8	15.5	18.6	2.2	3.8
	2	13.1	46.2	0.8	14.9	19.2	2.0	3.7
	3	13.8	48.2	0.8	12.9	18.7	1.5	4.0
	4	13.9	49.8	0.9	11.2	19.1	0.9	4.2
	5	15.0	50.8	0.9	8.8	19.5	0.6	4.3
	6	15.1	51.7	1.0	7.5	20.0	0.4	4.3
	7	14.2	53.6	1.1	6.7	19.8	0.4	4.3
	8	14.2	53.0	1.0	6.0	21.2	0.3	4.2
	9	14.0	51.9	1.1	6.6	21.6	0.4	4.3
	10	15.2	52.2	1.1	7.7	19.2	0.7	3.9
	11	13.9	51.3	0.9	10.5	18.2	1.3	3.8
2018	1-11	14.0	50.4	0.6	10.4	19.6	1.1	4.0
2019 ^p	1-11	14.0	50.5	0.9	10.0	19.5	1.0	4.1

1. 기타: 폐기물을 이용하여 제조한 것

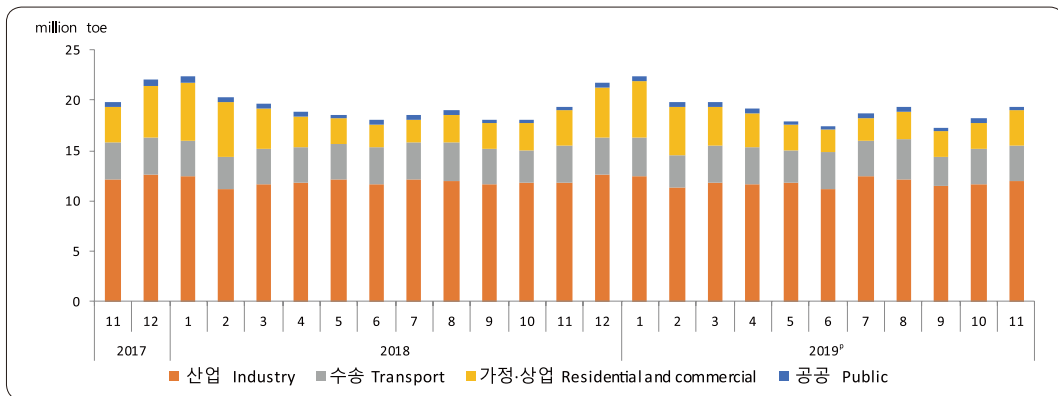
1. Others: The energy source is manufactured from the waste.

□ 최종에너지 부문별 소비 Final energy consumption by sector

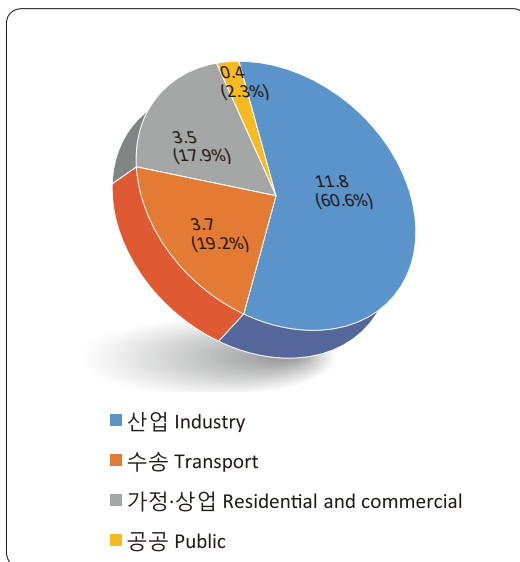
<1990~2018>



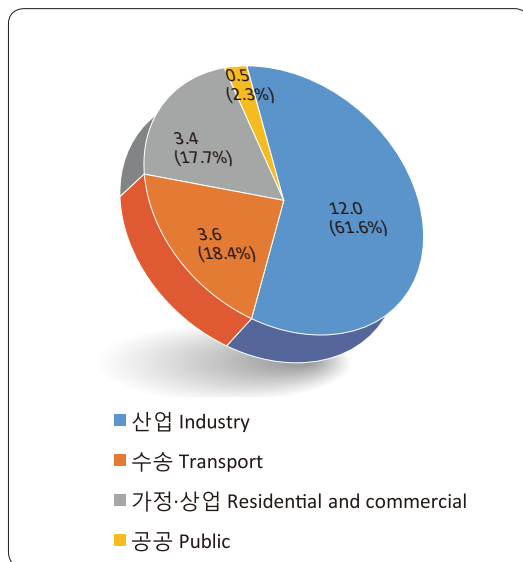
<월별 Monthly>



□ 2018년 11월 November 2018(%)



□ 2019년 11월 November 2019^p(%)



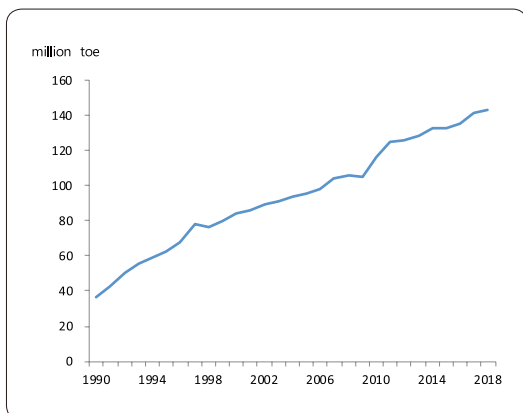
2.2.1 최종에너지 부문별 소비

Final energy consumption by sector

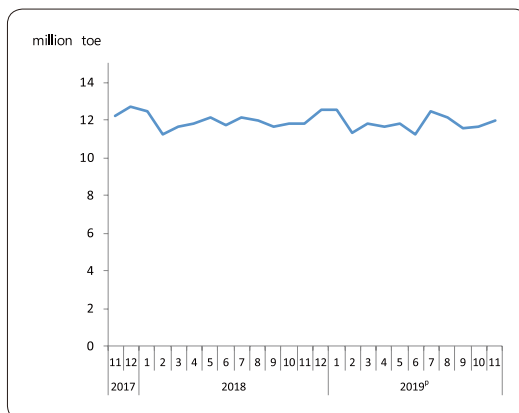
구 분		합계 Total	산업 Industry	수송 Transport	가정·상업 Residential and commercial	공공 Public
1,000 toe						
1990		74,701	36,144	14,173	21,572	2,812
1995		121,333	62,695	27,130	29,093	2,415
1996		131,573	67,751	29,789	31,374	2,659
1997		144,541	78,322	30,736	32,768	2,715
1998		132,177	76,353	26,178	27,156	2,489
1999		143,027	80,114	28,625	31,640	2,649
2000		149,958	84,237	30,945	32,153	2,623
2001		153,103	85,562	31,910	32,639	2,991
2002		160,876	89,755	33,765	34,160	3,196
2003		164,550	91,400	34,634	34,786	3,730
2004		166,452	93,650	34,635	34,566	3,600
2005		171,176	95,211	35,534	36,336	4,095
2006		174,135	97,839	36,522	35,921	3,853
2007		181,498	104,348	37,059	35,943	4,148
2008		182,490	106,338	35,756	36,292	4,104
2009		181,491	105,464	35,892	35,835	4,299
2010		194,971	116,160	36,903	37,427	4,481
2011		204,788	124,880	36,842	38,265	4,800
2012		206,530	125,930	36,783	38,603	5,214
2013		208,016	128,574	36,961	37,765	4,716
2014		210,139	132,589	37,241	35,627	4,683
2015		214,974	133,001	39,851	37,021	5,101
2016		221,396	135,158	42,271	38,721	5,246
2017		230,019	141,906	42,796	39,857	5,460
2018		232,740	142,870	42,959	41,343	5,567
2017	11	19,846	12,186	3,591	3,605	465
	12	22,035	12,687	3,632	5,153	563
2018	1	22,327	12,470	3,540	5,734	583
	2	20,323	11,269	3,160	5,342	553
	3	19,684	11,606	3,603	3,985	489
	4	18,865	11,820	3,545	3,056	445
	5	18,619	12,157	3,580	2,492	390
	6	18,061	11,723	3,665	2,261	412
	7	18,530	12,093	3,694	2,328	415
	8	18,976	11,952	3,841	2,727	456
	9	18,140	11,664	3,596	2,424	455
	10	18,059	11,798	3,215	2,655	390
	11	19,417	11,763	3,729	3,479	446
	12	21,738	12,556	3,790	4,861	531
2019 ^p	1	22,442	12,504	3,782	5,577	579
	2	19,900	11,350	3,245	4,818	488
	3	19,804	11,833	3,630	3,880	461
	4	19,119	11,617	3,748	3,316	437
	5	17,926	11,782	3,282	2,470	392
	6	17,498	11,240	3,624	2,229	404
	7	18,697	12,456	3,487	2,321	433
	8	19,294	12,138	4,045	2,648	462
	9	17,340	11,581	2,874	2,463	423
	10	18,197	11,606	3,564	2,605	422
	11	19,426	11,969	3,570	3,432	456
2018	1-11	211,001	130,314	39,169	36,482	5,036
2019 ^p	1-11	209,643	130,076	38,852	35,758	4,958

□ 산업 Industry

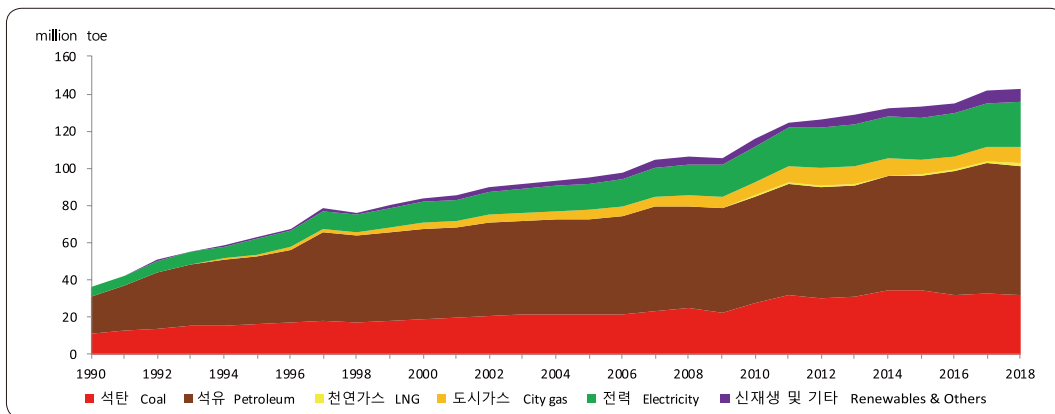
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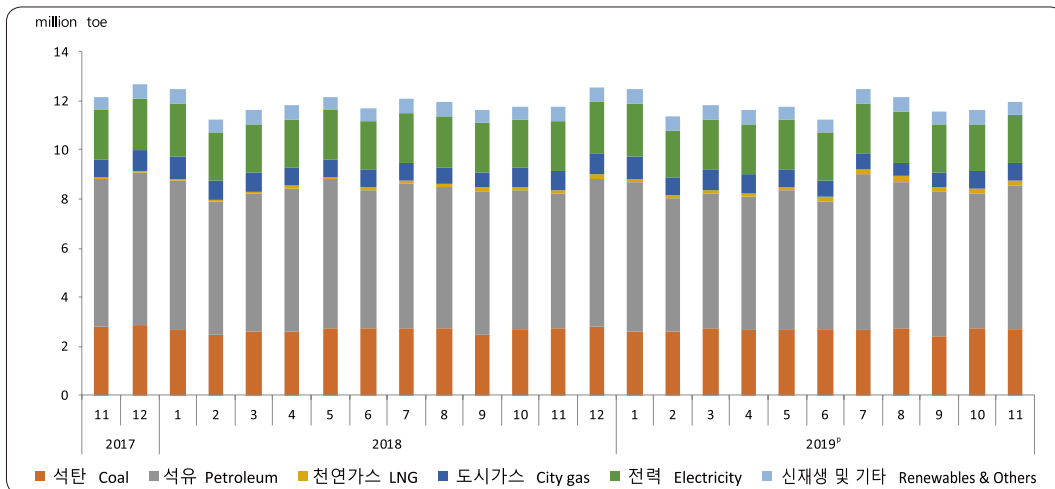
<월별 Monthly>



<1990~2018>



<월별 Monthly>



2.2.2 산업

Industry

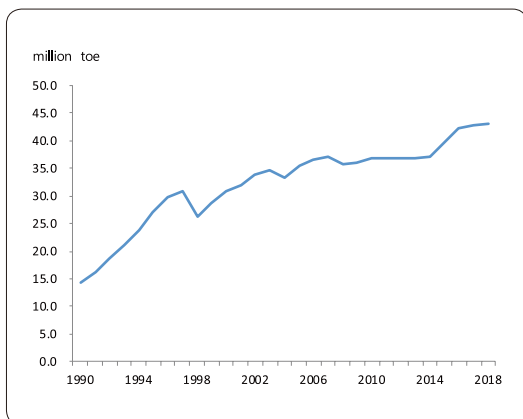
구 분		합계 Total	석탄 Coal	석유 Petroleum	천연가스 LNG	도시가스 City gas	전력 Electricity	신재생 및 기타 ¹ Renewables & Others ¹
		1,000 toe						
1990		36,144	10,806	20,014	-	235	5,089	0
1995		62,695	15,972	36,830	-	863	8,293	736
1996		67,751	17,523	38,940	-	1,196	9,179	912
1997		78,322	18,266	47,429	-	1,496	10,009	1,123
1998		76,353	17,440	46,456	-	1,812	9,359	1,287
1999		80,114	17,822	47,800	-	2,530	10,394	1,568
2000		84,237	19,125	48,522	0	3,308	11,374	1,908
2001		85,562	19,804	48,254	-	3,612	11,678	2,215
2002		89,755	20,956	50,032	-	3,984	12,423	2,359
2003		91,400	21,890	49,898	-	4,177	12,933	2,503
2004		93,650	21,475	50,839	-	4,382	13,617	3,337
2005		95,211	21,242	51,746	-	4,656	14,346	3,222
2006		97,839	21,398	53,114	-	4,847	15,021	3,459
2007		104,348	23,043	56,364	-	5,225	16,018	3,699
2008		106,338	24,791	54,964	-	5,933	16,738	3,912
2009		105,464	22,075	56,616	-	5,891	17,006	3,876
2010		116,160	27,288	57,576	559	7,329	19,193	4,215
2011		124,880	31,989	59,977	801	8,383	20,830	2,900
2012		125,930	30,185	60,073	717	9,501	21,426	4,028
2013		128,574	30,730	60,369	467	9,903	22,088	5,017
2014		132,589	34,452	61,343	460	9,050	22,757	4,526
2015		133,001	34,177	62,156	437	7,644	22,844	5,743
2016		135,158	31,770	66,820	504	7,537	23,218	5,309
2017		141,906	32,847	69,833	795	8,010	23,794	6,627
2018		142,870	31,992	69,294	1,466	9,028	24,399	6,691
2017								
	11	12,186	2,792	5,995	74	757	2,008	559
	12	12,687	2,876	6,218	79	850	2,084	580
2018								
	1	12,470	2,683	6,061	78	939	2,126	583
	2	11,269	2,440	5,444	72	800	1,972	541
	3	11,606	2,588	5,613	79	776	2,002	549
	4	11,820	2,624	5,829	77	717	2,019	554
	5	12,157	2,759	6,032	109	701	2,005	550
	6	11,723	2,737	5,656	126	678	1,982	544
	7	12,093	2,728	5,906	149	673	2,069	567
	8	11,952	2,726	5,742	152	650	2,105	577
	9	11,664	2,484	5,840	139	647	2,005	550
	10	11,798	2,689	5,673	155	751	1,985	544
	11	11,763	2,750	5,458	164	803	2,031	557
	12	12,556	2,785	6,039	166	892	2,098	575
2019 ^p								
	1	12,504	2,596	6,071	170	880	2,159	628
	2	11,350	2,584	5,422	166	725	1,903	549
	3	11,833	2,715	5,520	155	795	2,046	602
	4	11,617	2,648	5,435	179	773	2,005	577
	5	11,782	2,688	5,660	156	711	1,995	573
	6	11,240	2,638	5,263	178	664	1,951	547
	7	12,456	2,651	6,376	204	632	2,022	571
	8	12,138	2,740	5,976	202	576	2,086	559
	9	11,581	2,410	5,912	191	583	1,952	533
	10	11,606	2,712	5,541	196	667	1,951	540
	11	11,969	2,635	5,904	183	738	1,958	550
2018	1-11	130,314	29,207	63,255	1,300	8,136	22,300	6,116
2019 ^p	1-11	130,076	29,016	63,079	1,978	7,746	22,028	6,229

1. 기타: 폐기물을 이용하여 제조한 것

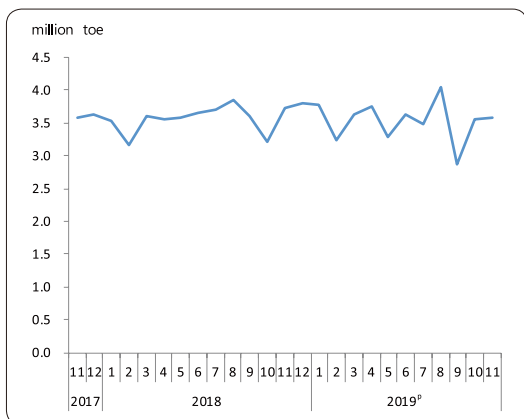
1. Others: The energy source is manufactured from the waste.

□ 수송 Transportation

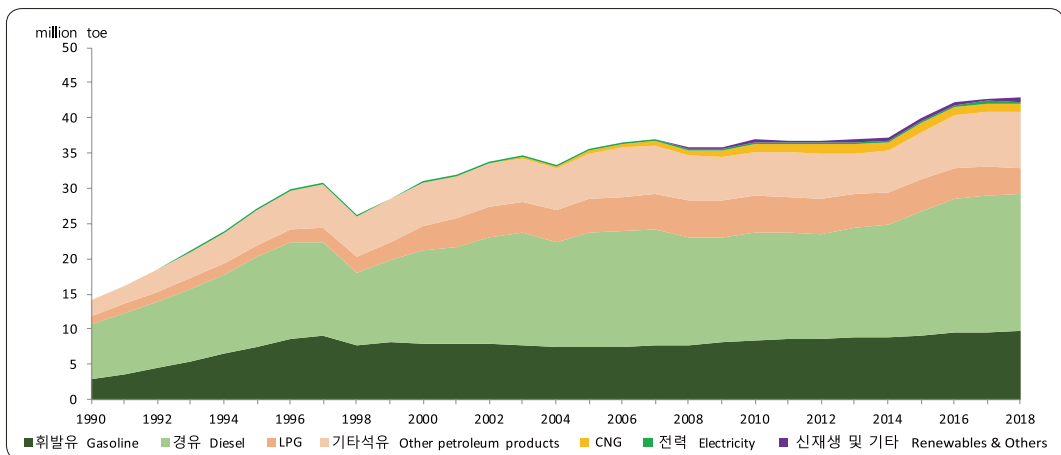
<1990~2018>



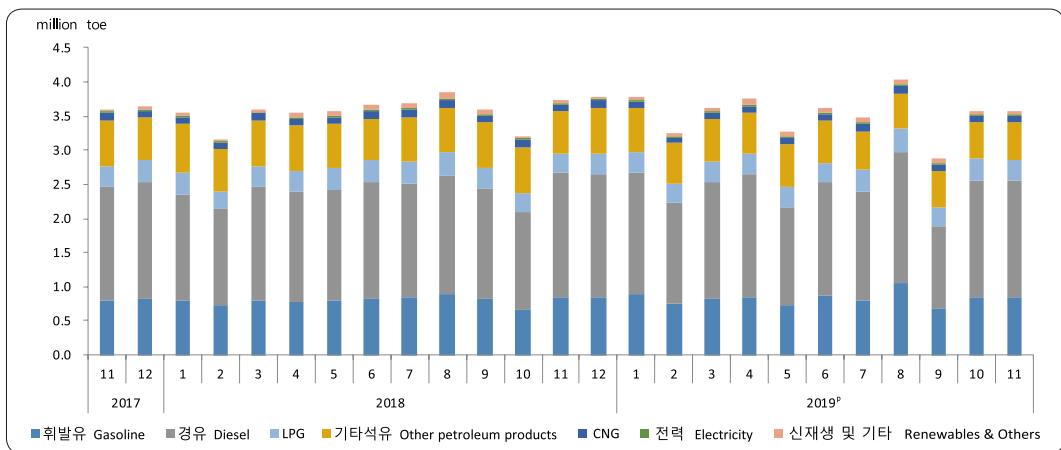
<월별 Monthly>



<1990~2018>



<월별 Monthly>



2.2.3 수송

Transportation

구 분		합계 Total	휘발유 Gasoline	경유 Diesel	LPG	CNG	전력 Electricity	신재생 및 기타 ¹ Renewables & Others ¹
		1,000 toe						
1990		14,173	2,936	7,748	1,222	-	87	-
1995		27,130	7,527	12,639	1,749	-	138	-
1996		29,789	8,664	13,572	1,861	-	145	-
1997		30,736	9,074	13,235	1,990	-	151	-
1998		26,178	7,618	10,469	2,090	-	136	-
1999		28,625	8,070	11,725	2,599	-	149	-
2000		30,945	7,884	13,283	3,453	-	175	-
2001		31,910	7,848	13,892	3,946	7	194	-
2002		33,765	7,961	15,089	4,229	80	195	-
2003		34,634	7,634	16,106	4,415	146	200	-
2004		34,635	7,335	16,388	4,586	239	213	6
2005		35,534	7,512	16,300	4,680	339	224	13
2006		36,522	7,574	16,388	4,844	475	218	53
2007		37,059	7,686	16,414	5,174	615	209	96
2008		35,756	7,745	15,353	5,191	777	196	178
2009		35,892	8,106	14,949	5,332	960	187	254
2010		36,903	8,498	15,099	5,294	1,112	188	357
2011		36,842	8,579	15,046	5,036	1,174	193	336
2012		36,783	8,612	14,954	4,863	1,248	194	360
2013		36,961	8,802	15,552	4,755	1,299	186	548
2014		37,241	8,805	16,058	4,455	1,307	172	454
2015		39,851	9,186	17,566	4,405	1,288	191	445
2016		42,271	9,511	19,028	4,209	1,270	231	443
2017		42,796	9,625	19,447	3,930	1,253	246	428
2018		42,959	9,649	19,645	3,664	1,238	255	683
2017 11		3,591	790	1,680	301	104	20	25
12		3,632	814	1,721	328	106	22	29
2018 1		3,540	790	1,568	306	103	23	36
2		3,160	728	1,405	266	92	22	34
3		3,603	796	1,670	305	103	20	42
4		3,545	779	1,612	309	101	19	68
5		3,580	797	1,610	326	104	19	77
6		3,665	830	1,706	310	104	20	76
7		3,694	857	1,654	329	111	23	78
8		3,841	884	1,751	330	110	25	81
9		3,596	827	1,616	310	101	22	67
10		3,215	672	1,423	282	104	20	43
11		3,729	846	1,820	287	102	20	41
12		3,790	841	1,809	304	105	22	40
2019 ^p 1		3,782	889	1,775	311	101	23	39
2		3,245	758	1,486	278	89	21	34
3		3,630	823	1,705	299	101	20	50
4		3,748	852	1,787	301	100	20	77
5		3,282	722	1,445	293	104	20	74
6		3,624	862	1,682	274	102	20	72
7		3,487	808	1,593	311	108	22	76
8		4,045	1,047	1,928	338	104	24	82
9		2,874	692	1,193	287	100	22	61
10		3,564	851	1,704	319	102	19	35
11		3,570	847	1,710	290	100	19	45
2018 1-11		39,169	8,808	17,836	3,360	1,133	233	643
2019 ^p 1-11		38,852	9,150	18,008	3,300	1,110	230	643

주: 합계에는 항공유, 중유 및 기타 석유제품 포함.

1. 기타: 폐기물을 이용하여 제조한 것

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

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

2.2.4 가정·상업

구 분	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	19,191	9,902	1,355	-	10,813	6,621	3,767	839
1996	21,000	10,375	883	-	12,022	6,429	4,515	1,073
1997	20,956	11,812	625	-	11,241	7,329	5,297	1,139
1998	17,128	10,028	553	-	7,424	5,575	5,341	1,112
1999	19,961	11,679	503	-	8,958	6,424	6,409	1,374
2000	21,160	10,993	536	-	8,881	4,527	7,353	1,671
2001	21,379	11,260	553	-	8,706	3,621	7,526	1,885
2002	22,318	11,843	529	-	8,516	3,378	8,109	2,132
2003	22,346	12,440	539	-	7,907	3,166	8,530	2,359
2004	22,467	12,100	626	-	7,469	2,109	8,636	2,657
2005	22,147	14,189	912	-	5,781	3,174	9,524	2,979
2006	21,237	14,684	1,063	-	4,526	2,970	9,685	3,173
2007	21,034	14,909	1,014	-	4,161	2,781	9,723	3,108
2008	21,145	15,147	1,088	-	4,041	2,528	9,624	3,139
2009	20,622	15,213	940	-	3,802	2,343	9,267	3,065
2010	21,337	16,090	901	-	3,988	2,409	9,366	3,122
2011	21,871	16,394	871	-	3,736	2,201	10,125	3,076
2012	21,649	16,954	832	-	3,272	2,098	10,109	3,688
2013	21,293	16,471	872	-	3,075	1,923	9,849	3,730
2014	19,813	15,814	745	-	2,965	1,741	9,124	3,476
2015	20,538	16,483	672	-	3,186	2,134	9,192	3,469
2016	21,667	17,055	571	-	3,632	2,052	9,647	3,645
2017	22,479	17,378	513	-	3,648	2,042	10,238	3,680
2018	23,460	17,883	432	-	3,366	1,959	10,901	3,713
2017	11	3,605	117	-	390	197	971	315
	12	5,153	71	-	521	241	1,814	437
2018p	1	5,734	56	-	533	244	2,063	529
	2	5,342	47	-	425	202	1,966	459
	3	3,985	29	-	280	184	1,399	327
	4	3,056	16	-	206	160	854	253
	5	2,492	9	-	180	153	532	216
	6	2,261	7	-	155	126	320	226
	7	2,328	5	-	132	116	239	261
	8	2,727	8	-	158	119	172	270
	9	2,424	31	-	213	131	220	215
	10	2,655	84	-	278	146	511	219
	11	3,479	82	-	321	165	984	294
	12	4,861	59	-	484	213	1,641	444
2019p	1	5,577	45	-	516	272	1,997	487
	2	4,818	27	-	349	208	1,738	407
	3	3,880	19	-	271	193	1,321	336
	4	3,316	13	-	238	192	976	281
	5	2,470	6	-	147	127	535	226
	6	2,229	4	-	138	116	316	225
	7	2,321	3	-	130	149	244	256
	8	2,648	6	-	176	138	210	262
	9	2,463	23	-	190	131	234	224
	10	2,605	51	-	268	173	407	215
	11	3,432	64	-	327	196	912	295
2018	1-11	36,482	373	-	2,882	1,746	9,260	3,269
2019p	1-11	35,758	260	-	2,751	1,896	8,890	3,213

1. 기타: 폐기물을 이용하여 제조한 것

주 1. 신재생 원수치는 가정, 상업 합계임.

2. 연탄소비는 모두 가정부문에 포함.

Residential and commercial

전력 Electricity		열 Heat		신재생 및 기타 ¹ Renewables & Others ¹		구 분
가정 Residential	상업 Commercial	가정 Residential	상업 Commercial	가정 Residential	상업 Commercial	
1,000 toe						
1,525	896	68	6	731	66	1990
2,434	2,367	610	22	212	53	1995
2,635	2,829	762	33	182	10	1996
2,796	3,294	850	42	146	8	1997
2,830	3,291	825	41	154	8	1998
2,974	3,819	959	56	159	5	1999
3,191	4,700	1,084	63	115	33	2000
3,372	5,633	1,111	80	109	42	2001
3,636	6,223	1,203	84	325	26	2002
3,833	6,752	1,252	105	286	58	2003
4,181	7,171	1,299	116	256	47	2004
4,375	7,858	1,466	143	89	34	2005
4,517	8,366	1,367	140	79	37	2006
4,659	8,854	1,409	127	69	39	2007
4,836	9,308	1,490	138	65	35	2008
4,953	9,640	1,530	133	129	33	2009
5,263	10,373	1,747	152	72	33	2010
5,295	10,463	1,774	158	70	495	2011
5,464	10,585	1,878	177	94	405	2012
5,501	10,576	1,841	182	155	60	2013
5,390	10,316	1,376	126	213	155	2014
5,486	10,533	1,758	173	243	174	2015
5,691	10,959	1,895	238	231	160	2016
5,720	11,212	2,105	280	254	163	2017
6,079	11,732	2,289	332	393	147	2018
456	855	248	23	33		11 2017
488	1,076	420	45	37		12
528	1,207	470	54	49		1 2018
535	1,222	392	44	50		2
458	978	263	25	42		3
469	891	151	14	41		4
439	818	87	19	39		5
453	865	50	20	40		6
505	959	38	28	45		7
740	1,139	25	34	62		8
550	956	43	16	48		9
441	798	129	12	39		10
468	872	231	21	41		11
493	1,028	410	45	45		12
537	1,193	430	48	52		1 2019 ^p
528	1,119	352	38	51		2
460	947	265	25	44		3
482	918	156	14	45		4
448	838	86	14	42		5
455	860	51	20	42		6
482	938	41	31	45		7
653	1,083	27	35	59		8
572	975	46	17	52		9
466	850	120	12	43		10
475	869	230	22	44		11
5,586	10,704	1,880	287	361	134	1-11 2018
5,558	10,590	1,806	276	381	137	1-11 2019 ^p

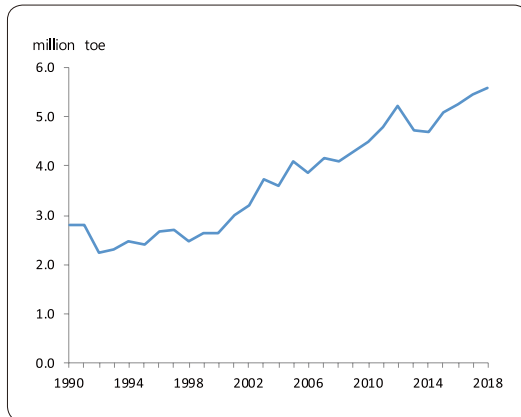
1. Others: The energy source is manufactured from the waste.

Note 1. Coal and monthly data of renewables include commercial.

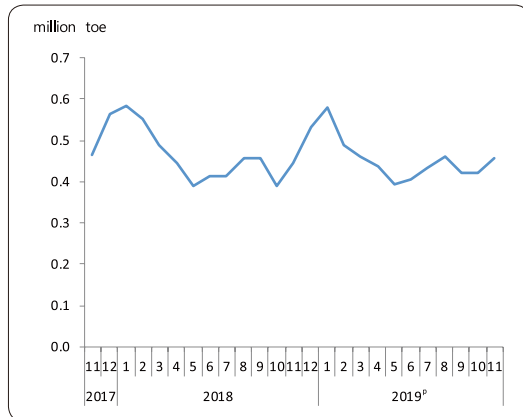
2. All briquette consumption is included in the residential.

□ 공공 Public

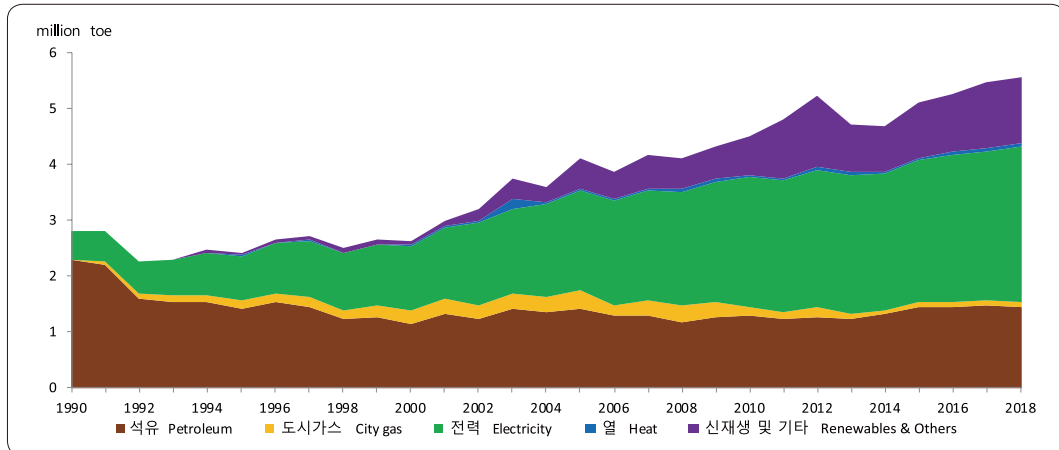
<1990~2018>



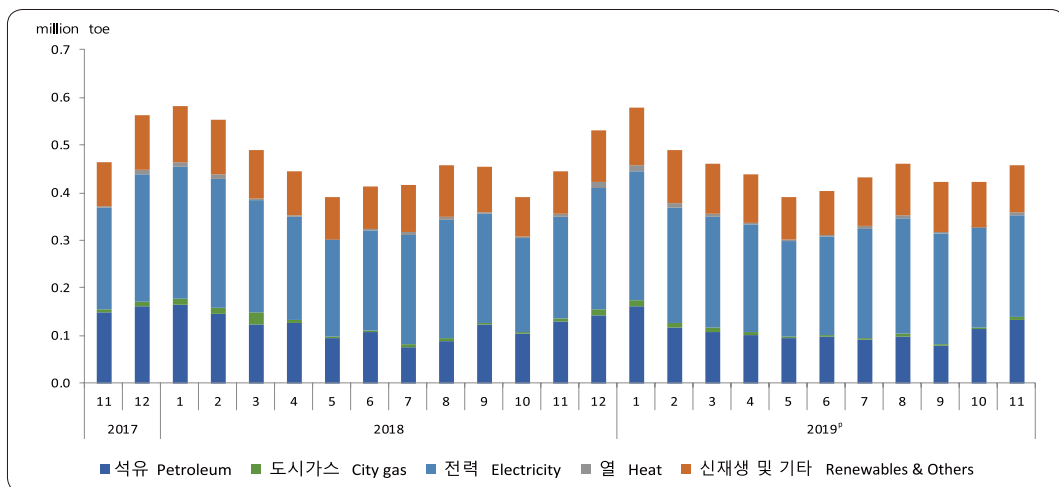
<월별 Monthly>



<1990~2018>



<월별 Monthly>



2.2.5 공공

Public

구 분		합계	석유	도시가스	전력	열	신재생 및 기타 ¹
		Total	Petroleum	City gas	Electricity	Heat	Renewables & Others ¹
		1,000 toe					
1990		2,812	2,276	-	514	1	-
1995		2,415	1,424	125	808	10	49
1996		2,659	1,530	153	904	15	57
1997		2,715	1,453	161	1,017	17	67
1998		2,489	1,215	160	1,022	16	77
1999		2,649	1,270	199	1,086	18	75
2000		2,623	1,140	229	1,160	20	74
2001		2,991	1,328	259	1,288	27	90
2002		3,196	1,220	262	1,470	30	215
2003		3,730	1,411	259	1,531	166	364
2004		3,600	1,347	279	1,658	34	283
2005		4,095	1,417	313	1,785	42	538
2006		3,853	1,279	199	1,868	42	464
2007		4,148	1,274	285	1,960	41	588
2008		4,104	1,176	292	2,039	39	557
2009		4,299	1,264	277	2,138	46	575
2010		4,481	1,299	152	2,321	39	669
2011		4,800	1,241	112	2,355	44	1,048
2012		5,214	1,258	181	2,459	47	1,270
2013		4,716	1,227	98	2,485	46	859
2014		4,683	1,306	85	2,438	27	827
2015		5,101	1,450	85	2,540	36	990
2016		5,246	1,432	88	2,646	50	1,030
2017		5,460	1,470	77	2,693	55	1,166
2018		5,567	1,429	99	2,784	61	1,195
2017	11	465	150	6	212	5	92
	12	563	161	11	266	10	115
2018	1	583	164	15	275	11	118
	2	553	146	14	269	9	115
	3	489	123	25	235	6	101
	4	445	127	5	217	3	93
	5	390	94	3	204	2	87
	6	412	107	3	210	2	90
	7	415	76	4	231	4	99
	8	456	89	5	251	4	108
	9	455	124	4	228	2	98
	10	390	105	3	195	2	84
	11	446	130	6	213	5	91
	12	531	143	12	256	10	110
2019 ^p	1	579	160	14	271	10	123
	2	488	116	12	243	8	110
	3	461	108	8	233	6	106
	4	437	102	5	225	3	102
	5	392	96	3	200	2	91
	6	404	98	3	207	2	94
	7	433	91	4	230	4	104
	8	462	98	5	244	4	111
	9	423	78	4	233	2	106
	10	422	115	3	208	2	94
	11	456	133	6	215	5	97
2018	1-11	5,036	1,286	87	2,528	51	1,085
2019 ^p	1-11	4,958	1,195	66	2,510	49	1,137

1. 기타: 폐기물을 이용하여 제조한 것

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

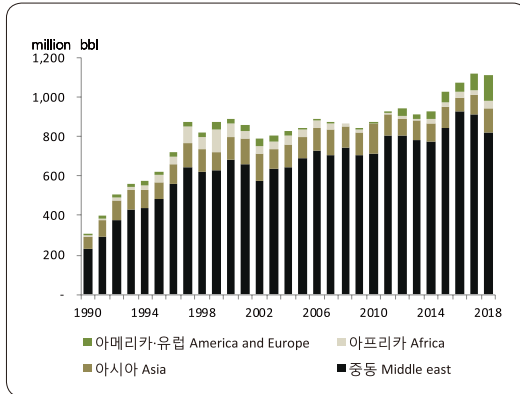
3. 석유

Petroleum

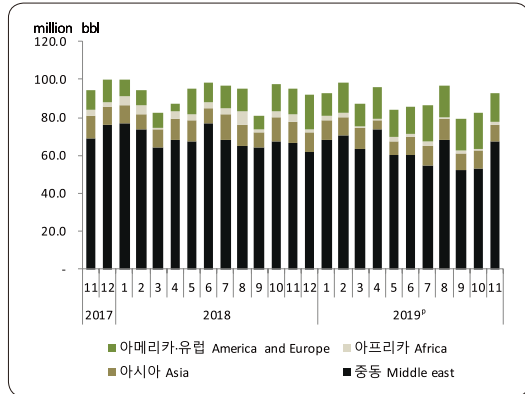


□ 원유 수입 Crude oil imports

<1990~2018>

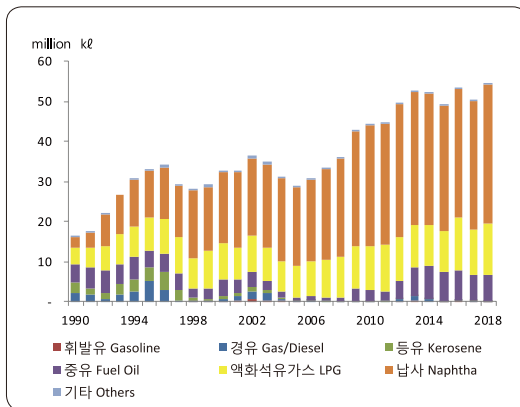


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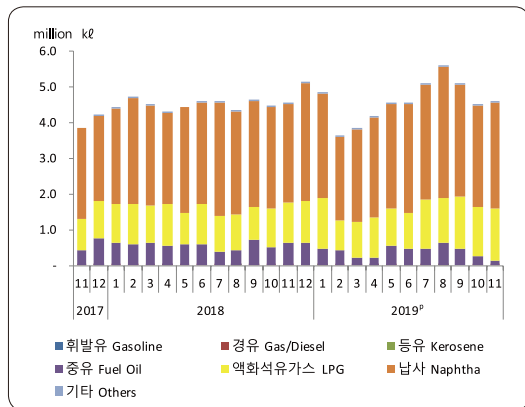


□ 석유제품 수입 Petroleum products imports

<1990~2018>

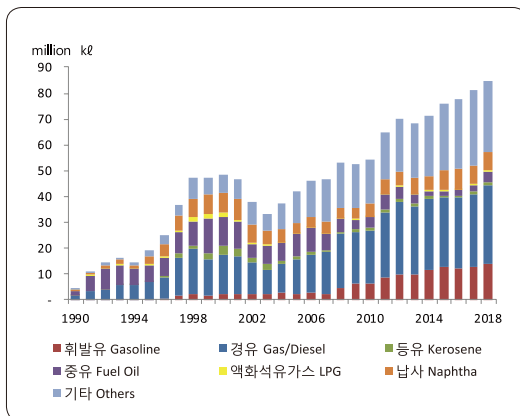


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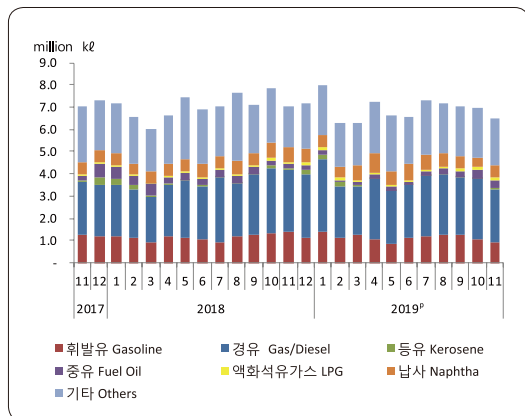


□ 석유제품 수출 Petroleum products exports

<1990~2018>

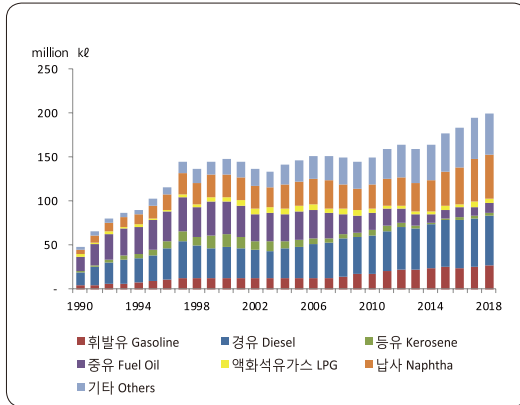


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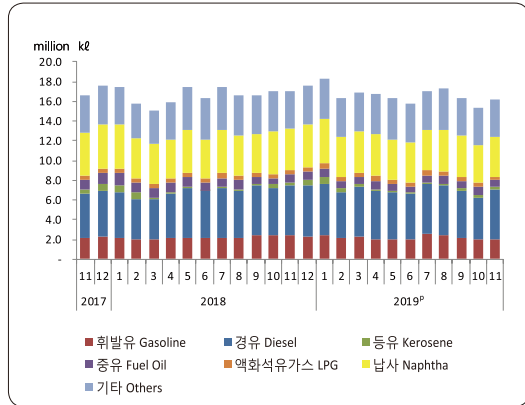


□ 석유제품 생산 Petroleum products production

<1990~2018>

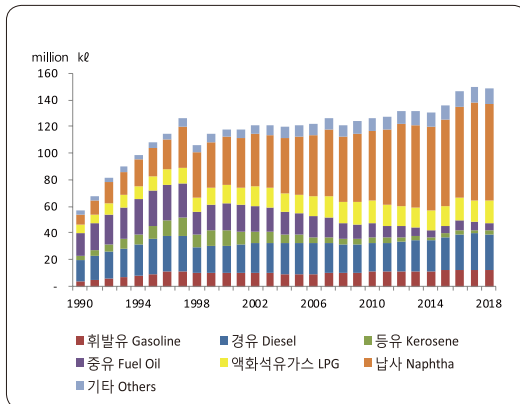


<월별 Monthly>

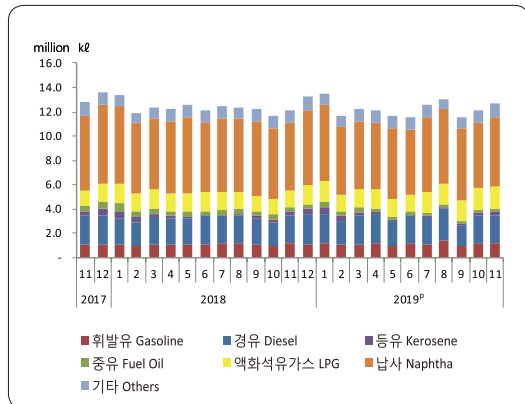


□ 석유제품 1차에너지 공급 Primary energy supply of petroleum products

<1990~2018>

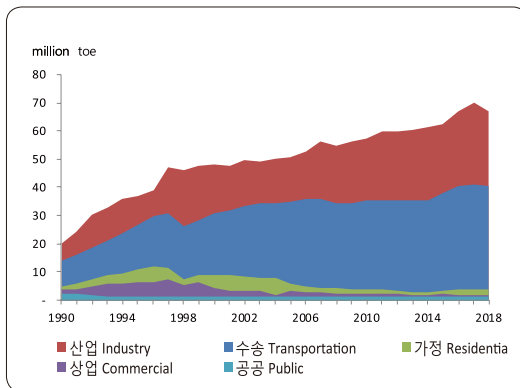


<월별 Monthly>

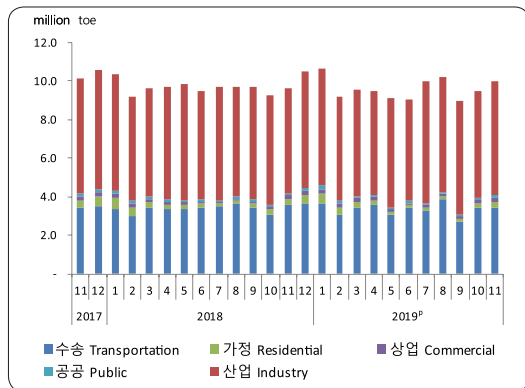


□ 석유제품 최종에너지 부문별 소비 Final energy consumption of petroleum products by sector

<1990~2018>



<월별 Monthly>



3.1 원유 수급

Crude oil supply and demand

구 분		국내생산 ¹ Domestic production ¹	수입 Imports	재고 Stock	정제투입 Refinery intake			정제능력 ³ Refining capacity ³	정제가동률 ⁴ Operable utilization rate ⁴
					원유 Crude oil	정제원료(반제품) Refinery feedstocks	기타 ² Others ²		
		1,000 bbl							1,000 BPSD
1990		-	308,368	3,370	306,493	6,766	-	840	99.97
1995		-	624,945	10,377	631,078	30,297	-	1,818	95.10
1996		-	721,927	11,297	720,846	26,986	-	2,438	81.01
1997		-	873,415	11,385	871,974	38,357	3,378	2,438	97.99
1998		-	819,094	3,598	825,890	36,660	2,937	2,438	92.81
1999		-	874,090	3,449	872,742	32,709	3,342	2,438	98.08
2000		-	893,943	3,865	890,304	28,777	4,316	2,438	100.05
2001		-	859,367	3,853	860,115	33,150	3,518	2,438	96.66
2002		-	790,992	6,996	786,805	50,421	3,246	2,438	88.42
2003		-	804,809	27,637	782,951	40,235	3,542	2,438	87.98
2004		-	825,790	25,574	826,551	35,760	3,723	2,735	82.80
2005		407	843,203	15,495	852,439	41,509	4,299	2,735	85.39
2006		333	888,794	23,691	878,395	36,067	4,735	2,735	87.99
2007		236	872,541	11,637	882,117	38,721	4,865	2,765	87.41
2008		155	864,872	10,723	865,663	40,409	4,959	2,785	85.16
2009		321	835,085	7,244	838,475	33,399	5,731	2,835	81.03
2010		380	872,415	7,611	872,247	26,633	5,986	2,845	84.00
2011		285	927,044	10,980	924,441	38,696	5,920	2,934	86.32
2012		263	947,292	13,231	945,162	41,488	5,926	2,949	87.81
2013		290	915,075	19,245	906,674	43,878	4,866	2,949	84.23
2014		198	927,524	27,518	918,345	51,067	4,714	3,009	83.62
2015		115	1,026,107	37,407	1,016,157	50,438	5,287	3,059	91.01
2016		104	1,078,119	41,847	1,071,731	52,340	5,444	3,064	95.83
2017		217	1,118,167	42,080	1,117,376	76,404	5,506	3,105	98.59
2018		189	1,116,281	50,511	1,106,266	110,775	5,450	3,204	94.60
2017	11	17	94,667	42,496	95,771	7,753	446	3,105	102.81
	12	19	99,851	42,080	100,160	8,478	476	3,105	104.06
2018	1	19	99,816	41,940	99,824	7,119	426	3,204	100.50
	2	17	94,449	47,627	88,636	7,103	441	3,204	98.80
	3	18	82,843	45,409	84,947	8,183	493	3,204	85.52
	4	18	87,152	45,031	87,410	8,982	469	3,204	90.94
	5	19	95,182	43,687	96,399	7,862	543	3,204	97.06
	6	18	97,994	51,173	90,353	8,220	527	3,204	94.00
	7	15	96,666	50,657	96,993	8,557	484	3,204	97.65
	8	18	94,985	54,667	90,850	11,140	503	3,204	91.47
	9	14	81,107	46,451	89,208	10,356	410	3,204	92.81
	10	6	97,773	48,169	95,974	9,959	349	3,204	96.63
	11	12	95,328	51,587	91,762	9,886	427	3,204	95.47
	12	15	92,986	50,511	93,911	13,407	377	3,204	97.70
2019 ^p	1	18	93,122	48,992	94,513	14,099	392	3,204	95.16
	2	13	98,461	57,760	89,535	9,145	351	3,204	99.80
	3	16	87,112	53,163	91,556	10,155	383	3,204	92.18
	4	16	95,723	54,927	93,859	9,394	482	3,204	97.65
	5	16	84,128	52,195	86,708	10,521	515	3,204	87.30
	6	15	85,736	53,777	84,023	9,716	381	3,204	84.60
	7	14	86,338	49,684	90,351	13,382	385	3,204	90.97
	8	14	97,069	56,495	90,122	14,978	528	3,204	90.74
	9	8	79,335	48,904	86,790	11,833	384	3,204	90.29
	10	4	82,332	49,357	81,394	11,120	357	3,204	81.95
	11	8	93,102	56,422	85,906	11,475	377	3,204	89.37
2018	1-11	174	1,023,295	51,587	1,012,356	97,368	5,073	3,204	94.60
2019 ^p	1-11	143	982,457	56,422	974,758	125,815	4,535	3,204	91.00

1. 울산 동해-1 가스전에서 2004년부터 생산하고 있음.

2. 첨가제 및 산소성분

3. 국내 모든 정유사 정제능력의 합계

4. 정제능력 대비 해당 월의 1일 원유처리(투입)량의 비율

자료 : 한국석유공사-PEDSIS, 대한석유�협회

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

2. Additives and oxygenates.

3. Sum of all the refineries in Korea.

4. Calculated by dividing the daily crude oil input by the refining capacity.

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

3.2 석유제품 수급

Petroleum products supply and demand

구 분		생산	수입	수출	국제병커링 ¹	재고	국내공급 ²
		Production	Imports	Exports	International bunkers ¹	Stocks	Domestic supply ²
		1,000 kℓ					
1990		48,410	16,097	4,322	2,403	3,112	56,654
1995		102,243	32,660	19,496	5,897	5,984	107,666
1996		115,125	34,201	25,172	6,690	6,754	114,637
1997		144,908	29,541	36,733	7,334	7,756	126,217
1998		137,497	27,965	47,168	7,312	7,381	106,564
1999		144,848	29,331	47,361	7,798	6,802	114,414
2000		147,362	32,481	48,696	7,388	7,899	118,055
2001		144,253	32,557	46,902	7,366	7,847	118,231
2002		136,466	36,337	38,017	7,387	6,877	121,284
2003		133,712	34,960	33,240	8,448	6,675	121,295
2004		140,926	31,019	37,442	9,283	8,040	119,608
2005		146,726	28,514	41,757	8,845	6,771	121,000
2006		151,032	30,455	45,958	8,561	7,441	121,706
2007		151,973	33,248	46,435	8,036	7,111	126,384
2008		149,246	35,710	53,063	8,046	6,365	120,930
2009		145,097	42,642	52,610	7,229	5,984	123,766
2010		149,274	44,015	54,338	7,844	6,592	126,278
2011		159,343	44,398	64,919	7,811	6,541	127,448
2012		164,502	49,221	70,096	7,805	7,701	131,588
2013		159,299	52,338	68,250	8,187	7,838	131,194
2014		163,768	51,928	71,356	8,521	7,857	130,599
2015		177,583	48,947	75,903	9,100	8,184	136,130
2016		184,042	53,197	77,539	9,936	7,981	146,933
2017		195,495	49,998	80,941	9,402	8,255	149,458
2018		200,141	54,313	84,510	9,221	9,987	148,619
2017	11	16,596	3,852	7,031	851	8,714	12,777
	12	17,535	4,167	7,287	806	8,255	13,565
2018	1	17,400	4,390	7,176	772	8,216	13,375
	2	15,822	4,670	6,586	721	8,929	11,942
	3	15,082	4,481	6,006	775	8,649	12,389
	4	15,895	4,272	6,636	788	8,347	12,240
	5	17,407	4,448	7,413	817	8,642	12,518
	6	16,337	4,543	6,887	739	8,918	12,091
	7	17,395	4,541	7,016	759	9,822	12,420
	8	16,609	4,290	7,627	840	8,910	12,372
	9	16,566	4,621	7,120	724	9,239	12,223
	10	17,066	4,414	7,864	750	9,307	11,689
	11	16,973	4,535	7,041	748	9,967	12,099
	12	17,588	5,109	7,139	788	9,987	13,260
2019 ^p	1	18,255	4,795	7,999	809	8,975	13,535
	2	16,299	3,597	6,305	639	9,038	11,664
	3	16,933	3,817	6,308	707	9,325	12,218
	4	16,712	4,158	7,229	778	9,198	12,112
	5	16,320	4,525	6,632	742	9,666	11,631
	6	15,786	4,500	6,584	748	9,979	11,493
	7	17,069	5,064	7,333	699	9,896	12,574
	8	17,255	5,566	7,182	742	9,976	13,073
	9	16,342	5,045	7,068	605	10,764	11,552
	10	15,424	4,467	6,987	732	9,339	12,099
	11	16,257	4,539	6,500	670	8,930	12,681
2018	1-11	182,553	49,204	77,371	8,433	9,967	135,358
2019 ^p	1-11	182,652	50,074	76,128	7,870	8,930	134,632

1. 외국적 선박 및 항공기에 인도된 물량

1. Deliveries to foreign-flag ships and planes

2. 1차에너지 공급량 기준

2. Primary energy supply.

자료: 한국석유공사-PEDSIS

Source: Korea National Oil Corporation-PEDSIS

3.3 계약형태별 원유 수입

구 분	합계 Total	중동 Middle East			아시아 Asia		
		소계 ¹ Sub-total ¹	장기계약 Long-term	현물 Spot	소계 ¹ Sub-total ¹	장기계약 Long-term	현물 Spot
		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
1996	721,927	561,098	425,921	135,176	98,631	42,198	56,434
1997	873,415	645,678	537,313	107,123	122,379	58,519	63,860
1998	819,094	622,005	525,441	96,564	113,494	60,838	52,656
1999	874,090	632,067	468,318	163,750	93,517	45,189	48,328
2000	893,943	686,916	501,767	185,149	112,669	54,307	58,361
2001	859,367	661,649	491,422	169,887	130,033	35,959	94,074
2002	790,992	579,865	419,976	159,889	136,756	42,142	94,615
2003	804,809	639,453	497,625	139,484	100,721	35,603	65,118
2004	825,790	645,183	502,039	142,479	116,287	38,718	77,569
2005	843,203	689,356	533,800	154,368	111,937	29,458	82,479
2006	888,794	730,843	560,285	170,558	110,306	24,113	86,193
2007	872,541	704,020	521,070	182,950	131,273	21,071	110,202
2008	864,872	746,458	569,121	177,337	108,482	17,689	90,794
2009	835,085	705,363	560,061	145,302	116,379	19,214	97,166
2010	872,415	713,647	589,285	124,361	152,354	23,177	129,176
2011	927,044	807,908	685,205	122,704	108,402	22,820	85,583
2012	947,292	805,971	645,317	160,654	88,190	18,969	69,220
2013	915,075	786,813	604,972	181,841	97,047	22,364	74,683
2014	927,524	778,923	628,106	150,817	88,623	23,658	64,964
2015	1,026,107	844,637	597,539	241,282	106,263	21,406	84,857
2016	1,078,119	926,201	612,451	301,437	72,756	19,644	53,112
2017	1,118,167	913,446	618,093	278,913	97,233	28,400	68,833
2018	1,116,281	820,994	529,317	276,972	122,832	36,446	86,385
2017	11	94,667	69,011	45,686	22,417	12,023	9,651
	12	99,851	76,055	51,500	22,799	9,689	7,326
2018	1	99,816	77,236	50,907	25,797	9,082	6,781
	2	94,449	73,941	50,406	21,601	7,617	6,569
	3	82,843	63,873	37,255	25,563	9,973	7,870
	4	87,152	67,833	50,375	15,186	11,198	7,375
	5	95,182	67,700	41,009	25,792	10,902	7,318
	6	97,994	76,669	55,473	20,091	7,852	4,318
	7	96,666	68,467	43,224	24,647	13,392	9,576
	8	94,985	65,372	40,604	24,185	10,831	7,667
	9	81,107	64,452	35,357	27,497	7,349	4,560
	10	97,773	67,308	42,766	22,987	12,408	8,013
	11	95,328	66,494	40,125	25,697	11,581	8,144
	12	92,986	61,649	41,815	17,929	10,648	8,194
2019 ^p	1	93,122	68,282	54,368	12,765	10,344	9,394
	2	98,461	70,662	55,038	13,395	9,529	8,235
	3	87,112	63,173	48,975	13,307	11,191	9,896
	4	95,723	73,545	58,883	13,382	4,810	3,419
	5	84,128	60,103	47,805	10,898	7,419	5,329
	6	85,736	60,223	47,013	12,491	9,377	7,686
	7	86,338	54,580	46,521	7,523	10,390	9,440
	8	97,069	67,928	59,581	8,158	11,038	10,508
	9	79,335	52,009	43,385	8,524	8,743	8,293
	10	82,332	52,787	37,567	14,245	9,642	9,039
	11	93,102	67,326	49,209	17,013	8,978	8,248
2018	1-11	1,023,295	759,345	487,502	259,044	112,184	78,191
2019 ^p	1-11	982,457	690,618	548,347	131,703	101,459	89,487

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		구 분	
소계 ¹ Sub-total ¹	장기계약 Long-term	현물 Spot	소계 ¹ Sub-total ¹	장기계약 Long-term	현물 Spot	장기계약 Long-term	현물 Spot		
1,000 bbl						%			
9,689	687	8,202	7,132	3,657	3,475	51.90	32.44		1990
37,911	3,781	34,130	18,456	18,456	-	66.14	33.36		1995
37,024	6,025	30,999	25,174	18,365	6,809	68.22	31.78		1996
81,119	1,453	79,666	24,240	23,059	1,181	71.03	28.83		1997
61,907	11,200	50,707	21,689	16,794	4,895	74.99	25.01		1998
109,560	34,956	74,603	38,946	22,612	16,334	65.33	34.67		1999
67,749	13,356	54,393	26,610	13,501	13,109	65.21	34.79		2000
39,155	937	38,219	28,530	10,067	18,462	62.65	37.31		2001
35,877	2,981	32,896	38,494	13,548	24,946	60.51	39.49		2002
34,156	9,496	24,660	30,479	8,168	22,311	68.45	31.26		2003
42,874	19,012	23,862	21,447	11,768	9,679	69.21	30.71		2004
34,424	-	34,424	7,487	643	6,844	66.88	32.98		2005
42,814	1,310	41,504	4,831	-	4,831	65.90	34.10		2006
35,557	1,212	34,345	1,690	-	1,690	62.27	37.73		2007
9,932	51	9,881	-	-	-	67.86	32.14		2008
11,608	416	11,192	1,734	-	1,734	69.42	30.58		2009
4,592	-	4,592	1,823	-	1,823	70.20	29.80		2010
2,772	-	2,772	7,962	-	7,962	76.37	23.63		2011
9,233	-	9,233	43,899	-	43,899	70.12	29.88		2012
8,096	674	7,422	23,119	2,075	21,044	68.86	31.14		2013
25,301	1,549	23,752	34,678	18,761	15,916	72.46	27.54		2014
26,691	3,031	23,659	48,516	12,987	35,529	61.88	37.55		2015
30,496	4,277	26,218	48,667	27,222	21,444	61.55	37.31		2016
28,189	10,580	17,608	79,300	39,601	39,698	62.31	36.22		2017
40,901	17,395	23,506	130,951	52,912	78,039	56.98	41.65		2018
3,252	2,081	1,170	10,382	5,386	4,996	67.42	50.12	11	
2,241	-	2,241	11,865	3,931	7,935	61.82	42.05	12	
5,081	4,037	1,044	8,417	2,817	5,601	60.17	39.29	1	2018
4,667	2,080	2,586	8,224	4,239	3,985	61.17	36.78	2	
650	-	650	8,348	1,965	6,383	49.88	48.85	3	
3,943	1,969	1,974	4,178	-	4,178	64.45	32.95	4	
2,789	350	2,439	13,791	6,147	7,643	53.68	45.38	5	
3,609	599	3,011	9,864	3,947	5,916	64.85	34.02	6	
3,047	601	2,447	11,760	5,001	6,759	54.46	44.93	7	
6,701	4,697	2,004	12,081	5,450	6,631	56.76	42.62	8	
1,629	590	1,038	7,678	1,999	5,678	50.22	47.81	9	
3,525	600	2,924	14,533	5,536	8,997	54.51	43.90	10	
3,437	909	2,528	13,817	7,606	6,211	54.63	44.67	11	
1,824	963	862	18,261	8,205	10,056	57.47	39.83	12	
2,010	571	1,439	12,486	3,941	8,545	64.25	34.52	1	2019 ^p
2,287	601	1,686	15,983	3,546	12,437	61.42	36.31	2	
724	-	724	12,024	1,968	10,056	59.97	39.01	3	
1,332	602	730	16,037	3,903	12,133	67.67	30.99	4	
2,154	1,199	956	14,452	2,633	11,820	63.86	34.47	5	
1,839	-	1,839	14,297	3,925	10,371	61.39	37.78	6	
2,621	580	2,041	18,747	4,615	14,131	61.00	38.38	7	
1,091	575	516	17,013	3,929	13,084	66.33	33.24	8	
1,488	1,049	439	17,095	3,943	13,152	61.55	38.33	9	
600	600	-	19,303	4,896	14,407	53.04	45.78	10	
1,551	601	950	15,246	2,922	12,324	57.42	41.39	11	
39,077	16,432	22,644	112,690	44,706	67,983	56.94	41.81	1-11	2018
17,697	6,379	11,318	172,683	40,222	132,461	61.75	37.15	1-11	2019 ^p

1. Includes imports by tall processing and development & import.

Source: Korea National Oil Corporation-PEDSIS

3.4 국별 원유 수입

구 분		중동 Middle East							
		합계	소계¹	사우디아라비아	아랍에미레이트	이란	쿠웨이트	오만	카타르
		Total	Sub-total¹	Saudi Arabia	UAE	Iran	Kuwait	Oman	Qatar
		1,000 bbl							
1990		308,368	229,017	39,616	49,877	34,287	17,069	63,686	6,610
1995		624,945	486,528	226,863	70,536	68,314	25,233	55,131	10,871
1996		721,927	561,098	252,665	91,620	78,067	41,134	57,413	14,424
1997		873,415	645,678	267,888	127,395	82,192	55,091	50,197	35,241
1998		819,094	622,005	234,450	122,022	67,502	66,894	57,195	34,879
1999		874,090	632,067	241,747	117,405	81,944	53,284	56,001	37,301
2000		893,943	686,916	264,925	128,064	81,251	66,627	46,632	45,722
2001		859,367	661,649	255,432	128,405	80,413	64,407	53,639	42,157
2002		790,992	579,865	240,765	105,905	51,512	56,996	42,053	35,330
2003		804,809	639,453	250,473	138,869	63,682	65,885	40,927	46,780
2004		825,790	645,183	253,849	145,598	64,974	64,659	32,832	45,581
2005		843,203	689,356	249,337	150,608	70,767	79,679	38,799	53,122
2006		888,794	730,843	261,563	158,865	75,058	92,620	36,273	49,871
2007		872,541	704,020	249,887	141,887	85,793	94,031	14,760	46,088
2008		864,872	746,458	262,637	158,109	73,016	104,593	16,670	64,402
2009		835,085	705,363	254,799	114,592	81,437	100,090	17,507	53,673
2010		872,415	713,647	276,787	105,656	72,605	103,079	12,152	64,362
2011		927,044	807,908	291,348	87,234	87,184	117,370	16,715	93,146
2012		947,292	805,971	303,049	86,536	56,146	137,647	8,761	103,825
2013		915,075	786,813	286,588	110,809	48,214	139,853	3,543	86,090
2014		927,524	778,923	292,592	108,472	44,923	136,546	6,516	100,127
2015		1,026,107	844,637	305,779	99,835	42,400	141,856	2,897	123,228
2016		1,078,119	926,201	324,448	87,743	111,942	159,273	16,317	88,150
2017		1,118,167	913,446	319,221	90,971	147,873	160,368	3,876	64,934
2018		1,116,281	820,994	323,174	72,030	58,202	162,005	1,471	65,980
2017	11	94,667	69,011	24,139	6,429	10,371	13,129	-	5,130
	12	99,851	76,055	29,544	6,797	8,712	12,079	-	6,297
2018	1	99,816	77,236	27,441	4,563	7,812	14,962	501	6,891
	2	94,449	73,941	30,469	5,496	9,088	15,807	-	6,166
	3	82,843	63,873	21,817	7,277	11,597	8,626	-	5,618
	4	87,152	67,833	24,567	5,500	10,011	14,754	800	3,387
	5	95,182	67,700	23,935	6,155	6,007	12,854	170	5,096
	6	97,994	76,669	32,330	6,670	5,492	12,084	-	6,183
	7	96,666	68,467	24,375	6,340	6,195	13,453	-	5,911
	8	94,985	65,372	28,740	5,166	2,000	13,303	-	3,423
	9	81,107	64,452	25,263	6,860	-	15,252	-	7,810
	10	97,773	67,308	30,764	5,035	-	13,533	-	5,136
	11	95,328	66,494	28,990	6,779	-	12,423	-	5,398
	12	92,986	61,649	24,482	6,189	-	14,953	-	4,963
2019 ^p	1	93,122	68,282	25,922	6,379	1,958	14,697	-	5,916
	2	98,461	70,662	29,374	6,967	8,440	12,653	-	1,765
	3	87,112	63,173	19,705	4,912	10,366	12,002	-	3,889
	4	95,723	73,545	26,493	8,341	12,466	11,491	-	2,599
	5	84,128	60,103	25,154	5,593	-	14,249	-	5,545
	6	85,736	60,223	27,101	5,173	-	10,681	-	7,532
	7	86,338	54,580	24,704	8,526	-	11,037	-	4,529
	8	97,069	67,928	30,863	6,908	-	15,148	-	7,250
	9	79,335	52,009	20,875	3,718	-	15,021	-	6,432
	10	82,332	52,787	22,564	12,019	-	7,550	360	4,476
	11	93,102	67,326	23,909	8,320	-	13,890	-	7,666
2018	1-11	1,023,295	759,345	298,692	65,841	58,202	147,052	1,471	61,018
2019 ^p	1-11	982,457	690,618	276,664	76,856	33,230	138,419	360	57,600

1. 기타 국가 물량 포함.
2. 아프리카 국가는 알제리, 앙골라, 리비아, 나이지리아 등임.
3. 아메리카 국가는 미국, 캐나다, 멕시코 등임.
4. 유럽 국가는 노르웨이, 영국 등임.
자료: 한국석유공사-PEDSIS

Crude oil imports by country

아시아 Asia					아프리카 ²	아메리카 ³	유럽 ⁴	구 분
소계 ¹	인도네시아	말레이시아	호주	브루나이				
Sub-total ¹	Indonesia	Malaysia	Australia	Brunei	Africa ²	America ³	Europe ⁴	
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
98,631	35,088	14,838	5,445	13,828	37,024	25,174	-	1996
122,379	40,965	16,968	8,851	12,787	81,119	23,580	660	1997
113,494	33,599	18,156	14,252	13,786	61,907	17,594	4,095	1998
93,517	41,726	19,988	15,495	8,045	109,560	27,896	11,050	1999
112,669	36,762	17,732	34,990	8,649	67,749	21,365	5,245	2000
130,033	45,228	19,838	32,879	9,631	39,155	25,469	3,061	2001
136,756	42,457	14,247	39,552	11,508	35,877	30,282	8,212	2002
100,721	33,672	11,101	25,396	11,247	34,156	28,543	1,936	2003
116,287	38,104	13,785	32,068	10,897	42,874	21,447	-	2004
111,937	37,703	13,037	31,879	10,558	34,424	5,363	2,124	2005
110,306	23,359	12,747	34,652	13,210	42,814	4,831	-	2006
131,273	17,603	12,991	39,101	9,224	35,557	1,690	-	2007
108,482	16,308	11,155	34,499	10,644	9,932	-	-	2008
116,379	20,115	6,271	34,423	9,596	11,608	1,734	-	2009
152,354	29,668	9,032	31,735	12,668	4,592	1,823	-	2010
108,402	21,008	8,961	15,101	12,324	2,772	2,796	5,166	2011
88,190	20,588	4,909	7,723	9,923	9,233	314	43,585	2012
97,047	13,242	5,099	15,992	7,606	8,096	329	22,790	2013
88,623	9,080	4,353	20,861	5,702	25,301	10,053	24,625	2014
106,263	8,475	2,833	17,694	4,808	26,691	23,255	25,261	2015
72,756	6,412	1,554	12,049	3,001	30,496	30,080	18,587	2016
97,233	8,624	3,606	11,679	2,606	28,189	44,453	34,847	2017
122,832	7,008	2,803	11,092	3,213	40,901	95,094	36,461	2018
12,023	614	599	1,364	290	3,252	8,267	2,115	11
9,689	660	285	1,623	872	2,241	4,908	6,957	12
9,082	386	782	-	300	5,081	6,331	2,087	1 2018
7,617	878	-	650	290	4,667	4,239	3,985	2
9,973	289	-	618	880	650	5,589	2,759	3
11,198	514	334	1,363	-	3,943	4,178	-	4
10,902	297	-	650	-	2,789	7,606	6,184	5
7,852	523	628	-	290	3,609	7,003	2,861	6
13,392	949	209	682	290	3,047	9,346	2,414	7
10,831	350	315	2,632	-	6,701	7,307	4,774	8
7,349	1,164	-	1,291	290	1,629	7,028	650	9
12,408	799	325	2,308	581	3,525	10,675	3,859	10
11,581	558	-	898	291	3,437	10,675	3,142	11
10,648	300	210	-	-	1,824	15,119	3,746	12
10,344	499	-	726	-	2,010	12,486	-	1 2019 ^p
9,529	314	-	-	290	2,287	15,983	-	2
11,191	281	-	618	315	724	12,024	-	3
4,810	310	-	-	350	1,332	16,037	-	4
7,419	300	-	682	316	2,154	13,451	1,001	5
9,377	310	-	1,302	-	1,839	14,297	-	6
10,390	250	-	652	-	2,621	18,747	-	7
11,038	-	336	1,950	-	1,091	14,988	2,024	8
8,743	-	314	-	-	1,488	17,095	-	9
9,642	478	-	650	602	600	19,303	-	10
8,978	-	907	656	-	1,551	15,246	-	11
112,184	6,708	2,593	11,092	3,213	39,077	79,975	32,715	1-11 2018
101,459	2,742	1,556	7,236	1,873	17,697	169,657	3,025	1-11 2019 ^p

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

2. Algeria, Angola, Libya, Nigeria, etc.

3. US, Canada, Mexico, etc.

4. Norway, UK, etc.

Source: Korea National Oil Corporation-PEDSIS

3.5 석유제품 수입

Petroleum products imports

구 분		합계 Total	휘발유 Gasoline	경유 Gas/Diesel oil	등유 Kerosene	중유 ¹ Fuel oil ¹	액화석유가스 LPG	납사 Naphtha	기타 ² Others ²
1,000 kℓ									
1990		16,097	0	2,160	2,777	4,397	4,312	2,450	1
1995		32,660	0	5,118	3,714	3,947	8,442	11,421	18
1996		34,201	0	2,948	4,401	4,633	8,768	12,751	701
1997		29,541	0	498	2,507	4,254	9,099	12,611	572
1998		27,965	34	349	811	2,055	7,813	16,709	192
1999		29,331	62	367	427	2,623	9,167	16,076	609
2000		32,481	118	448	1,092	3,992	8,865	17,692	273
2001		32,557	335	1,062	844	3,548	7,641	19,036	90
2002		36,337	641	2,055	1,100	3,768	8,937	19,382	454
2003		34,960	328	1,771	1,053	2,199	8,077	20,983	550
2004		31,019	194	682	272	1,317	7,613	20,885	56
2005		28,514	12	304	57	639	7,900	19,602	0
2006		30,455	0	251	41	1,389	8,586	20,185	2
2007		33,248	0	122	82	940	9,248	22,856	0
2008		35,710	0	59	60	1,143	10,023	24,385	40
2009		42,642	0	133	11	3,157	10,523	28,751	67
2010		44,015	0	121	53	2,779	11,070	29,984	8
2011		44,398	0	151	66	2,447	11,755	29,970	8
2012		49,221	13	760	24	4,316	11,120	32,980	7
2013		52,338	273	1,367	16	7,040	10,488	33,116	39
2014		51,928	0	819	21	8,268	10,101	32,707	11
2015		48,947	61	42	2	7,430	9,970	31,418	23
2016		53,197	221	32	3	7,508	13,239	32,150	44
2017		49,998	179	37	6	6,374	11,650	31,738	14
2018		54,313	28	38	0	6,823	12,611	34,788	26
2017	11	3,852	0	3	0	407	901	2,541	0.0
	12	4,167	13	2	0	747	1,044	2,356	4.9
2018	1	4,390	0	3	0	633	1,074	2,680	0
	2	4,670	0	3	0	569	1,156	2,942	0
	3	4,481	0	3	0	639	1,025	2,808	8
	4	4,272	12	3	0	544	1,143	2,567	3
	5	4,448	0	4	0	599	849	2,997	0
	6	4,543	0	1	0	604	1,094	2,838	7
	7	4,541	0	2	0	369	1,005	3,165	0
	8	4,290	16	3	0	408	988	2,873	2
	9	4,621	0	4	0	711	903	2,998	5
	10	4,414	0	5	0	511	1,077	2,820	0
	11	4,535	0	2	0	623	1,137	2,773	0
	12	5,109	0	5	0	614	1,162	3,328	1
2019 ^p	1	4,795	0	2	3	477	1,403	2,911	0
	2	3,597	0	0	0	416	855	2,326	0
	3	3,817	0	2	0	216	992	2,601	6
	4	4,158	21	3	0	171	1,144	2,820	0
	5	4,525	0	2	0	543	1,050	2,930	1
	6	4,500	0	1	0	483	985	3,030	1
	7	5,064	0	3	0	465	1,387	3,209	0
	8	5,566	0	5	2	634	1,231	3,693	1
	9	5,045	0	0	0	460	1,473	3,109	3
	10	4,467	0	2	0	260	1,353	2,852	0
	11	4,539	0	2	0	142	1,446	2,949	1
2018	1-11	49,204	28	33	0	6,209	11,450	31,460	25
2019 ^p	1-11	50,074	21	21	6	4,266	13,318	32,430	12

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

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

자료: 한국석유공사-PEDSIS

1. Sum of Bunker-A, Bunker-B, and Bunker-C.

2. Includes jet fuel, by-product fuel oil, refinery gas, solvents, bitumens, lubricants, paraffin waxes, petroleum coke, and other.

Source: Korea National Oil Corporation-PEDSIS

3.6 석유제품 수출

Petroleum products exports

구 분		합계 Total	휘발유 Gasoline	경유 Gas/Diesel oil	등유 Kerosene	중유 ¹ Fuel oil ¹	액화석유가스 LPG	납사 Naphtha	기타 ² Others ²
1,000 kℓ									
1990		4,322	5	1,662	15	1,922	175	529	14
1995		19,496	70	6,748	90	6,397	463	3,392	2,336
1996		25,172	405	8,618	463	6,848	558	4,892	3,387
1997		36,733	1,617	14,899	1,630	7,988	724	5,873	4,003
1998		47,168	2,482	17,367	1,105	9,577	1,667	7,130	7,840
1999		47,361	1,792	14,047	2,383	13,096	2,170	7,348	6,526
2000		48,696	2,364	15,370	3,160	11,472	1,293	7,766	7,272
2001		46,902	2,570	14,379	2,863	10,654	766	8,144	7,526
2002		38,017	2,468	12,120	1,622	5,568	458	7,145	8,635
2003		33,240	2,152	9,669	2,090	7,287	460	4,924	6,658
2004		37,442	2,913	10,817	1,223	7,240	153	4,954	10,142
2005		41,757	2,308	13,655	708	8,914	114	4,101	11,958
2006		45,958	3,168	14,550	757	9,263	121	4,450	13,647
2007		46,435	2,438	16,371	199	6,789	85	4,678	15,876
2008		53,063	4,914	20,817	381	5,597	59	3,643	17,651
2009		52,610	6,389	19,948	863	4,037	20	4,224	17,128
2010		54,338	6,254	20,789	1,027	4,064	145	5,105	16,953
2011		64,919	8,509	25,307	1,424	5,439	144	5,626	18,470
2012		70,096	10,094	28,055	1,205	4,465	284	5,292	20,700
2013		68,250	10,177	26,035	1,063	3,505	136	6,288	21,046
2014		71,356	11,658	27,686	706	2,126	214	5,622	23,344
2015		75,903	12,606	27,345	599	1,693	198	7,606	25,856
2016		77,539	12,124	27,827	328	2,066	297	7,912	26,985
2017		80,941	13,071	28,006	831	2,573	384	7,026	29,050
2018		84,510	13,974	30,320	1,038	4,028	786	6,926	27,438
2017									
	11	7,031	1,263	2,347	74	251	56	552	2,488
	12	7,287	1,173	2,341	322	615	52	594	2,191
2018									
	1	7,176	1,174	2,354	257	507	65	564	2,256
	2	6,586	1,122	2,174	181	427	49	525	2,108
	3	6,006	958	1,993	81	531	43	479	1,922
	4	6,636	1,231	2,286	39	316	37	540	2,185
	5	7,413	1,154	2,575	5	316	58	522	2,782
	6	6,887	1,073	2,397	17	276	63	619	2,443
	7	7,016	953	2,880	18	352	59	563	2,191
	8	7,627	1,165	2,413	14	342	38	626	3,030
	9	7,120	1,269	2,690	57	283	68	575	2,177
	10	7,864	1,304	2,976	115	225	104	659	2,480
	11	7,041	1,423	2,735	67	231	92	660	1,833
	12	7,139	1,147	2,848	188	221	109	594	2,031
2019 ^p									
	1	7,999	1,424	3,262	179	196	114	573	2,251
	2	6,305	1,103	2,368	165	98	80	515	1,975
	3	6,308	1,278	2,189	30	171	48	642	1,951
	4	7,229	1,076	2,674	15	210	56	926	2,273
	5	6,632	880	2,340	16	179	71	663	2,484
	6	6,584	1,156	2,364	10	130	42	773	2,109
	7	7,333	1,213	2,709	18	190	36	715	2,453
	8	7,182	1,276	2,700	5	275	69	628	2,229
	9	7,068	1,233	2,627	15	252	102	572	2,267
	10	6,987	1,030	2,720	36	376	131	411	2,283
	11	6,500	951	2,365	72	342	88	570	2,113
2018	1-11	77,371	12,827	27,472	850	3,807	677	6,332	25,407
2019 ^p	1-11	76,128	12,620	28,316	560	2,419	836	6,989	24,387

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

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

자료: 한국석유공사-PEDSIS

1. Sum of Bunker-A, Bunker-B, and Bunker-C.

2. Includes jet fuel, by-product fuel oil, refinery gas, solvents, bitumens, lubricants, paraffin waxes, petroleum coke, and other.

Source: Korea National Oil Corporation-PEDSIS

3.7 석유제품 생산

Petroleum products production

구 분		합계 Total	휘발유 Gasoline	경유 Gas/Diesel oil	등유 Kerosene	중유 ¹ Fuel oil ¹	액화석유가스 LPG	납사 Naphtha	기타 ² Others ²
1,000 kℓ									
1990		48,410	3,806	15,033	2,152	16,366	1,907	5,642	3,504
1995		102,243	9,612	28,761	6,665	33,268	2,499	14,041	7,396
1996		115,125	11,277	34,411	8,156	34,167	2,504	16,396	8,214
1997		144,908	12,504	41,999	11,431	37,852	3,315	24,534	13,272
1998		137,497	12,087	36,964	9,937	33,403	4,373	24,457	16,277
1999		144,848	11,949	34,765	14,388	38,248	4,806	26,145	14,547
2000		147,362	12,115	36,248	13,958	36,640	5,551	26,552	16,297
2001		144,253	12,163	34,800	11,897	35,874	6,258	25,862	17,400
2002		136,466	12,233	33,027	9,801	30,068	6,440	26,059	18,839
2003		133,712	11,613	32,222	10,070	32,433	6,061	23,676	17,635
2004		140,926	12,002	33,792	7,861	32,110	6,134	26,684	22,343
2005		146,726	11,737	36,720	6,883	33,569	5,926	28,040	23,851
2006		151,032	12,667	37,894	6,421	32,971	5,716	29,105	26,258
2007		151,973	12,435	40,254	4,513	29,289	5,398	31,281	28,804
2008		149,246	14,764	42,047	4,915	23,939	5,490	27,623	30,468
2009		145,097	17,278	41,608	5,169	19,806	5,586	25,289	30,361
2010		149,274	17,776	42,670	6,150	20,059	5,188	26,983	30,449
2011		159,343	19,652	46,468	5,520	19,860	2,912	31,018	33,913
2012		164,502	21,842	49,243	4,231	16,314	2,743	32,926	37,202
2013		159,299	21,465	47,342	3,418	12,633	3,186	33,012	38,242
2014		163,768	23,062	50,001	2,662	8,772	3,870	34,674	40,728
2015		177,583	25,012	53,009	2,940	9,217	4,033	39,736	43,636
2016		184,042	24,413	53,819	3,103	11,282	4,138	41,306	45,980
2017		195,495	25,105	54,831	3,163	10,805	5,026	49,264	47,302
2018		200,141	26,581	57,040	3,359	10,910	5,390	49,909	46,952
2017									
	11	16,596	2,224	4,399	387	1,010	445	4,417	3,714
	12	17,535	2,307	4,695	584	1,109	495	4,432	3,913
2018									
	1	17,400	2,159	4,691	642	1,225	505	4,453	3,724
	2	15,822	1,974	4,130	680	1,028	434	4,053	3,523
	3	15,082	2,057	3,968	184	978	429	4,061	3,405
	4	15,895	2,127	4,549	101	1,011	432	3,923	3,751
	5	17,407	2,217	5,026	103	958	506	4,260	4,337
	6	16,337	2,129	4,751	82	775	465	3,871	4,264
	7	17,395	2,174	5,062	91	939	471	4,315	4,343
	8	16,609	2,129	4,805	114	978	449	4,110	4,024
	9	16,566	2,426	5,006	165	734	411	3,920	3,905
	10	17,066	2,442	4,766	358	654	439	4,326	4,081
	11	16,973	2,437	5,128	271	815	402	4,201	3,718
	12	17,588	2,312	5,157	568	813	446	4,415	3,877
2019 ^p									
	1	18,255	2,461	5,210	597	976	455	4,586	3,972
	2	16,299	2,139	4,617	469	760	409	4,038	3,866
	3	16,933	2,251	5,064	286	712	479	4,229	3,911
	4	16,712	2,090	4,827	135	876	504	4,230	4,049
	5	16,320	2,005	4,794	154	682	450	4,078	4,156
	6	15,786	2,089	4,562	121	595	458	3,954	4,008
	7	17,069	2,522	5,159	128	732	495	4,131	3,901
	8	17,255	2,417	5,135	73	814	477	4,192	4,145
	9	16,342	2,221	4,777	243	740	384	4,144	3,832
	10	15,424	2,026	4,274	238	835	342	3,851	3,858
	11	16,257	2,081	4,962	261	715	382	4,032	3,824
2018	1-11	182,553	24,270	51,883	2,790	10,097	4,944	45,494	43,075
2019 ^p	1-11	182,652	24,301	53,381	2,708	8,439	4,835	45,463	43,524

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

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

자료: 한국석유공사-PEDSIS

1. Sum of Bunker-A, Bunker-B, and Bunker-C.

2. Includes jet fuel, by-product fuel oil, refinery gas, solvents, bitumens, lubricants, paraffin waxes, petroleum coke, and other.

Source: Korea National Oil Corporation-PEDSIS

3.8 석유제품 공급

Petroleum products supply

구 분	1,000 kℓ							
	합계 Total	휘발유 Gasoline	경유 Gas/Diesel oil	등유 Kerosene	중유 ¹ Fuel oil ¹	액화석유가스 LPG	납사 Naphtha	기타 ² Others ²
1990	56,654	3,767	15,493	3,965	17,278	5,678	7,560	2,913
1995	107,666	9,441	25,932	9,963	26,642	10,567	20,902	4,218
1996	114,637	10,806	27,410	11,711	26,721	10,881	22,460	4,648
1997	126,217	11,345	26,517	13,518	26,191	11,387	30,989	6,271
1998	106,564	9,712	19,137	9,771	17,591	10,810	34,000	5,543
1999	114,414	10,156	20,043	12,230	19,175	12,243	34,803	5,764
2000	118,055	9,918	20,577	11,114	20,624	13,464	36,415	5,943
2001	118,231	9,969	21,013	9,810	20,361	13,415	37,090	6,573
2002	121,284	10,187	21,947	9,295	19,316	14,533	39,000	7,005
2003	121,295	9,616	23,111	8,406	18,414	14,087	40,130	7,531
2004	119,608	9,245	22,862	6,851	16,690	14,059	41,792	8,110
2005	121,000	9,469	22,660	6,263	15,980	14,574	43,442	8,612
2006	121,706	9,519	22,645	5,000	15,404	14,857	45,629	8,651
2007	126,384	9,937	23,105	4,161	14,755	15,444	50,375	8,607
2008	120,930	10,006	21,385	4,397	11,128	16,197	49,503	8,313
2009	123,766	10,473	21,035	4,132	11,038	16,903	51,292	8,893
2010	126,278	10,959	21,407	4,667	10,381	16,721	52,754	9,389
2011	127,448	11,061	21,329	4,043	8,744	15,771	56,470	10,031
2012	131,588	11,409	21,737	3,499	8,666	15,179	61,146	9,951
2013	131,194	11,672	22,738	2,992	7,372	14,795	61,089	10,537
2014	130,599	11,681	23,027	2,453	5,289	14,241	63,012	10,894
2015	136,130	12,173	24,860	2,580	6,097	14,287	65,312	10,820
2016	146,933	12,548	26,480	3,030	7,549	17,323	68,378	11,625
2017	149,458	12,658	26,846	3,022	5,694	16,716	72,870	11,651
2018	148,619	12,668	26,557	3,001	5,292	17,453	71,727	11,921
2017	11	12,777	1,052	2,343	387	475	1,279	1,071
	12	13,565	1,068	2,358	555	595	1,498	991
2018	1	13,375	1,035	2,175	583	707	1,525	941
	2	11,942	955	1,889	468	523	1,469	826
	3	12,389	1,048	2,236	229	535	1,542	920
	4	12,240	1,025	2,246	140	400	1,414	1,043
	5	12,518	1,050	2,216	112	382	1,552	1,023
	6	12,091	1,087	2,308	85	362	1,496	1,000
	7	12,420	1,121	2,290	70	427	1,434	1,005
	8	12,372	1,158	2,296	100	429	1,410	948
	9	12,223	1,088	2,158	161	341	1,344	1,042
	10	11,689	889	1,956	244	437	1,302	1,084
	11	12,099	1,110	2,380	296	372	1,358	998
	12	13,260	1,103	2,407	511	377	1,607	1,091
2019 ^o	1	13,535	1,165	2,448	542	461	1,675	951
	2	11,664	999	2,041	349	376	1,380	863
	3	12,218	1,085	2,344	220	459	1,461	981
	4	12,112	1,123	2,458	180	306	1,507	1,037
	5	11,631	957	2,036	88	301	1,443	1,013
	6	11,493	1,129	2,277	81	280	1,400	1,004
	7	12,574	1,070	2,255	73	296	1,671	1,018
	8	13,073	1,368	2,621	114	256	1,740	892
	9	11,552	915	1,726	159	205	1,684	968
	10	12,099	1,118	2,329	198	209	1,818	982
	11	12,681	1,113	2,364	307	242	1,774	1,102
2018	1-11	135,358	11,566	24,150	2,489	4,915	15,846	10,829
2019 ^o	1-11	134,632	12,042	24,899	2,313	3,391	17,554	10,810

1. 경질중유(Bunker-A), 중유(Bunker-B), 중질중유(Bunker-C)의 합계
 2. 기타는 항공유, 부생연료유, 정제가스, 용제, 아스팔트, 윤활유, 파라핀왁스, 석유코크, 기타제품(황, 프로필렌 등)을 포함.

주: 1차에너지 공급량 기준
 자료: 한국석유공사-PEDSIS

1. Sum of Bunker-A, Bunker-B, and Bunker-C.
 2. Includes jet fuel, by-product fuel oil, refinery gas, solvents, bitumens, lubricants, paraffin waxes, petroleum coke, and other.

Note: Based on primary energy supply.
 Source: Korea National Oil Corporation-PEDSIS

3.9 휘발유 수급

Gasoline supply and demand

구 분		생산	수입	수출	재고	공급 ¹	소비 Consumption				
		Production	Import	Export	Stock	Supply ¹	합계	산업	수송	가정	상업·공공
		1,000 kℓ									
1990		3,806	0	5	180	3,767	...	...	...	...	...
1995		9,612	0	70	344	9,441	9,441	225	9,069	16	130
1996		11,277	0	405	385	10,806	10,806	256	10,439	17	95
1997		12,504	0	1,617	499	11,345	11,345	307	10,933	7	97
1998		12,087	34	2,482	455	9,712	9,712	391	9,178	7	136
1999		11,949	62	1,792	500	10,156	10,156	348	9,723	6	79
2000		12,115	118	2,364	589	9,918	9,918	347	9,498	3	69
2001		12,163	335	2,570	554	9,969	9,969	424	9,456	5	84
2002		12,233	641	2,468	542	10,187	10,187	492	9,592	17	86
2003		11,613	328	2,152	528	9,616	9,616	320	9,197	10	89
2004		12,002	194	2,913	515	9,245	9,369	337	8,942	5	85
2005		11,737	12	2,308	500	9,469	9,469	327	9,051	4	87
2006		12,667	0	3,168	512	9,519	9,519	301	9,126	1	91
2007		12,435	0	2,438	532	9,937	9,936	256	9,608	3	70
2008		14,764	0	4,914	421	10,006	10,005	248	9,682	5	71
2009		17,278	0	6,389	509	10,473	10,472	249	10,132	8	83
2010		17,776	0	6,254	611	10,959	10,958	240	10,623	11	84
2011		19,652	0	8,509	509	11,061	11,061	247	10,723	17	73
2012		21,842	13	10,094	811	11,409	11,409	239	11,069	17	84
2013		21,465	273	10,177	805	11,672	11,672	247	11,314	16	95
2014		23,062	0	11,658	707	11,681	11,681	232	11,317	22	109
2015		25,012	61	12,606	812	12,173	12,173	227	11,807	28	111
2016		24,413	221	12,124	906	12,548	12,548	214	12,225	15	93
2017		25,105	179	13,071	902	12,658	12,658	239	12,324	13	82
2018		26,581	28	13,974	1,141	12,668	12,668	221	12,355	14	79
2017	11	2,224	0	1,263	787	1,052	1,052	32	1,011	1	8
	12	2,307	13	1,173	902	1,068	1,068	18	1,042	1	7
2018	1	2,159	0	1,174	872	1,035	1,035	15	1,012	1	6
	2	1,974	0	1,122	783	955	955	17	932	1	6
	3	2,057	0	958	865	1,048	1,048	21	1,019	1	6
	4	2,127	12	1,231	782	1,025	1,025	20	997	1	7
	5	2,217	0	1,154	812	1,050	1,050	20	1,021	1	7
	6	2,129	0	1,073	790	1,087	1,087	16	1,063	1	7
	7	2,174	0	953	888	1,121	1,121	16	1,097	1	6
	8	2,129	16	1,165	739	1,158	1,158	17	1,133	1	7
	9	2,426	0	1,269	844	1,088	1,088	20	1,059	1	7
	10	2,442	0	1,304	1,118	889	889	22	860	1	6
	11	2,437	0	1,423	1,052	1,110	1,110	19	1,084	1	7
	12	2,312	0	1,147	1,141	1,103	1,103	18	1,077	1	7
2019 ^o	1	2,461	0	1,424	1,032	1,165	1,165	16	1,138	1	9
	2	2,139	0	1,103	1,095	999	999	21	970	1	7
	3	2,251	0	1,278	1,016	1,085	1,085	21	1,053	1	9
	4	2,090	21	1,076	907	1,123	1,123	23	1,091	1	9
	5	2,005	0	880	1,059	957	957	23	925	1	8
	6	2,089	0	1,156	866	1,129	1,129	17	1,104	1	8
	7	2,522	0	1,213	1,131	1,070	1,070	25	1,035	0	10
	8	2,417	0	1,276	924	1,368	1,368	16	1,341	1	10
	9	2,221	0	1,233	1,027	915	915	20	886	1	9
	10	2,026	0	1,030	912	1,118	1,118	19	1,089	0	9
	11	2,081	0	951	961	1,113	1,113	19	1,084	0	10
2018	1-11	24,270	28	12,827	1,052	11,566	11,566	203	11,278	13	72
2019 ^o	1-11	24,301	21	12,620	961	12,042	12,042	219	11,716	10	96

1. 1차에너지 공급량

자료: 한국석유공사-PEDSIS

1. Primary energy supply.

Source: Korea National Oil Corporation-PEDSIS

3.10 경유 수급

Gas/Diesel oil supply and demand

구 분		생산 Production	수입 Import	수출 Export	재고 Stock	공급 ¹ Supply ¹	소비 Consumption				
							합계 Total	산업 Industry	수송 Transport	가정 Residential	상업·공공 Commercial/ Public
1,000 kℓ											
1990		15,033	2,160	1,662	527	15,493	...	...	...	...	...
1995		28,761	5,118	6,748	1,767	25,932	24,962	4,659	13,738	2,136	4,429
1996		34,411	2,948	8,618	1,875	27,410	25,763	4,932	14,752	2,168	3,909
1997		41,999	498	14,898	1,949	26,517	25,136	5,055	14,386	1,637	4,057
1998		36,964	349	17,367	1,631	19,137	18,840	3,736	11,380	624	3,100
1999		34,765	367	14,047	1,534	20,043	19,869	3,654	12,744	436	3,034
2000		36,248	448	15,370	1,630	20,577	20,498	3,987	14,439	138	1,934
2001		34,800	1,062	14,379	1,416	21,013	20,964	4,001	15,100	70	1,794
2002		33,027	2,055	12,120	1,130	21,947	21,836	3,687	16,401	260	1,487
2003		32,222	1,771	9,669	1,162	23,111	22,743	3,359	17,507	472	1,406
2004		33,792	682	10,817	1,423	22,862	21,172	3,029	16,335	1,098	711
2005		36,720	304	13,655	1,180	22,660	22,638	3,051	17,719	1,166	703
2006		37,894	251	14,550	1,328	22,645	22,613	3,264	17,819	773	757
2007		40,254	122	16,371	1,621	23,105	23,075	3,336	18,148	817	775
2008		42,047	59	20,817	1,363	21,385	21,353	2,985	16,985	650	732
2009		41,608	133	19,948	1,186	21,035	21,012	3,067	16,546	625	775
2010		42,670	121	20,789	1,322	21,407	21,368	3,233	16,723	570	842
2011		46,468	151	25,307	1,177	21,329	21,232	3,193	16,663	573	803
2012		49,243	760	28,055	1,491	21,737	21,556	3,112	16,997	558	889
2013		47,342	1,367	26,035	1,517	22,738	22,619	3,276	17,869	612	862
2014		50,001	819	27,686	1,380	23,027	23,006	3,015	18,326	656	1,009
2015		53,009	42	27,345	1,761	24,860	24,846	2,794	19,991	911	1,150
2016		53,819	32	27,827	1,369	26,480	26,451	2,697	21,610	1,002	1,141
2017		54,831	37	28,006	1,504	26,846	26,831	2,554	22,011	1,090	1,176
2018		57,040	38	30,320	1,773	26,557	26,504	2,408	22,213	773	1,110
2017	11	4,399	3	2,347	1,478	2,343	2,341	271	1,888	76	106
	12	4,695	2	2,341	1,504	2,358	2,356	216	1,938	79	123
2018	1	4,691	3	2,354	1,663	2,175	2,171	218	1,777	62	114
	2	4,130	3	2,174	1,704	1,889	1,887	129	1,594	54	110
	3	3,968	3	1,993	1,422	2,236	2,234	165	1,896	70	103
	4	4,549	3	2,286	1,472	2,246	2,243	225	1,860	61	96
	5	5,026	4	2,575	1,718	2,216	2,212	205	1,869	62	77
	6	4,751	1	2,397	1,808	2,308	2,302	172	1,974	69	87
	7	5,062	2	2,880	1,731	2,290	2,283	232	1,919	59	74
	8	4,805	3	2,413	1,871	2,296	2,286	203	1,939	64	79
	9	5,006	4	2,690	2,078	2,158	2,154	220	1,790	62	82
	10	4,766	5	2,976	1,849	1,956	1,951	229	1,576	67	79
	11	5,128	2	2,735	1,860	2,380	2,377	191	2,016	70	100
	12	5,157	5	2,848	1,773	2,407	2,404	218	2,003	73	109
2019 ^p	1	5,210	2	3,262	1,345	2,448	2,445	236	2,009	74	126
	2	4,617	0	2,368	1,450	2,041	2,038	202	1,683	59	94
	3	5,064	2	2,189	1,975	2,344	2,330	213	1,944	72	102
	4	4,827	3	2,674	1,833	2,458	2,440	204	2,064	67	105
	5	4,794	2	2,340	2,098	2,036	2,020	192	1,683	55	90
	6	4,562	1	2,364	2,014	2,277	2,257	162	1,942	67	86
	7	5,159	3	2,709	2,214	2,255	2,233	241	1,848	56	88
	8	5,135	5	2,700	2,049	2,621	2,598	207	2,226	74	91
	9	4,777	-	2,627	2,534	1,726	1,715	208	1,389	48	70
	10	4,274	2	2,720	1,670	2,329	2,320	208	1,925	82	104
	11	4,962	2	2,365	1,886	2,364	2,354	235	1,944	66	110
2018	1-11	51,883	33	27,472	1,860	24,150	24,100	2,189	20,210	700	1,001
2019 ^p	1-11	53,381	21	28,316	1,886	24,899	24,749	2,309	20,657	719	1,064

1. 1차에너지 공급량
자료: 한국석유공사-PEDSIS

1. Primary energy supply.
Source: Korea National Oil Corporation-PEDSIS

3.11 등유 수급

Kerosene supply and demand

구 분		생산	수입	수출	재고	공급 ¹	소비 Consumption				
		Production	Import	Export	Stock	Supply ¹	합계	산업	수송	가정	상업·공공
		1,000 kℓ									
1990		2,152	2,777	15	991	3,965	...	...	...	...	...
1995		6,665	3,714	90	1,001	9,963	9,963	1,158	36	5,834	2,934
1996		8,156	4,401	463	1,276	11,711	11,707	1,192	47	7,126	3,341
1997		11,431	2,507	1,630	998	13,518	13,514	2,239	45	7,020	4,210
1998		9,937	811	1,105	1,232	9,771	9,759	1,859	56	4,620	3,224
1999		14,388	427	2,383	1,261	12,230	12,053	1,357	25	6,297	4,373
2000		13,958	1,092	3,160	1,712	11,114	10,962	1,310	14	6,250	3,388
2001		11,897	844	2,863	1,378	9,810	9,730	1,043	21	6,185	2,480
2002		9,801	1,100	1,622	782	9,295	9,126	1,071	36	5,574	2,444
2003		10,070	1,053	2,090	978	8,406	8,124	951	30	4,866	2,276
2004		7,861	272	1,223	707	6,851	7,148	916	19	4,296	1,916
2005		6,883	57	708	449	6,263	6,135	871	14	3,651	1,599
2006		6,421	41	757	753	5,000	4,833	749	10	2,861	1,212
2007		4,513	82	199	577	4,161	4,039	696	8	2,353	982
2008		4,915	60	381	383	4,397	4,296	685	8	2,509	1,093
2009		5,169	11	863	367	4,132	4,020	662	8	2,281	1,069
2010		6,150	53	1,027	478	4,667	4,563	792	13	2,531	1,226
2011		5,520	66	1,424	386	4,043	3,986	676	13	2,328	968
2012		4,231	24	1,205	317	3,499	3,454	586	20	2,057	791
2013		3,418	16	1,063	369	2,992	2,951	520	8	1,744	679
2014		2,662	21	706	273	2,453	2,444	253	5	1,634	552
2015		2,940	2	599	354	2,580	2,577	162	10	1,838	567
2016		3,103	3	328	353	3,030	2,953	172	3	2,181	597
2017		3,163	6	831	289	3,022	2,883	152	0	2,170	561
2018		3,359	0	1,038	363	3,001	2,848	167	1	2,166	514
2017	11	387	-	74	351	387	379	20	0	288	70
	12	584	-	322	289	555	542	28	0	410	104
2018	1	642	-	257	273	583	568	24	0	436	107
	2	680	-	181	417	468	456	28	0	343	85
	3	184	-	81	350	229	218	13	0	165	41
	4	101	-	39	308	140	130	8	0	96	25
	5	103	-	5	328	112	99	15	0	69	15
	6	82	-	17	286	85	72	5	0	50	17
	7	91	-	18	316	70	56	4	0	40	11
	8	114	0	14	320	100	86	6	0	64	15
	9	165	-	57	306	161	151	8	0	122	21
	10	358	-	115	411	244	228	13	0	180	34
	11	271	-	67	366	296	285	15	0	221	49
	12	568	-	188	363	511	500	27	0	380	93
2019 ^o	1	597	3	179	282	542	530	24	5	400	101
	2	469	-	165	284	349	336	21	2	248	64
	3	286	-	30	311	220	204	13	2	153	36
	4	135	-	15	241	180	166	11	2	122	32
	5	154	-	16	288	88	71	11	1	49	11
	6	121	-	10	312	81	62	5	1	42	15
	7	128	-	18	344	73	53	4	0	37	11
	8	73	2	5	288	114	95	7	1	71	15
	9	243	-	15	354	159	146	8	1	114	23
	10	238	-	36	377	198	190	11	2	149	28
	11	261	-	72	296	307	299	15	2	229	52
2018	1-11	2,790	0	850	366	2,489	2,348	140	1	1,786	422
2019 ^o	1-11	2,708	6	560	296	2,313	2,152	131	19	1,613	388

1. 1차에너지 공급량

주: 실내등유와 보일러 등유의 합계

자료: 한국석유공사-PEDSIS

1. Primary energy supply.

Note: Sum of kerosene and heating oil.

Source: Korea National Oil Corporation-PEDSIS

3.12 중유 수급

Fuel oil supply and demand

구 분		생산 Production	수입 Import	수출 Export	재고 Stock	공급 ¹ Supply ¹	소비 Consumption				
							합계 Total	산업 Industry	수송 Transport	가정 Residential	상업·공공 Commercial/ Public
1,000 kℓ											
1990		16,366	4,397	1,922	576	17,278	...	...	...	...	...
1995		33,268	3,947	6,397	1,630	26,642	17,394	12,112	3,242	1,145	896
1996		34,167	4,633	6,848	1,781	26,721	17,936	12,452	3,546	1,034	905
1997		37,852	4,254	7,988	2,016	26,191	18,148	11,119	5,395	787	848
1998		33,403	2,055	9,577	1,723	17,591	14,052	9,238	3,879	562	373
1999		38,248	2,623	13,096	1,664	19,175	15,260	10,346	3,994	531	389
2000		36,640	3,992	11,472	1,855	20,624	14,297	9,410	4,020	518	348
2001		35,874	3,548	10,654	1,951	20,361	13,378	8,739	3,839	468	332
2002		30,068	3,768	5,568	1,845	19,316	13,269	8,569	3,919	456	325
2003		32,433	2,199	7,287	1,630	18,414	12,627	7,880	3,971	432	344
2004		32,110	1,317	7,240	1,873	16,690	11,647	7,440	3,561	356	289
2005		33,569	639	8,914	1,487	15,980	11,077	6,723	3,686	333	335
2006		32,971	1,389	9,263	1,708	15,404	10,728	6,048	3,987	302	391
2007		29,289	940	6,789	1,498	14,755	9,929	5,398	3,717	276	539
2008		23,939	1,143	5,597	1,517	11,128	8,385	4,497	3,282	245	362
2009		19,806	3,157	4,037	1,449	11,038	7,364	3,937	2,961	231	236
2010		20,059	2,779	4,064	1,595	10,381	7,002	3,647	2,943	201	211
2011		19,860	2,447	5,439	1,786	8,744	6,362	2,969	3,048	172	172
2012		16,314	4,316	4,465	1,684	8,666	5,163	2,058	2,839	133	133
2013		12,633	7,040	3,505	1,673	7,372	3,749	1,432	2,097	97	124
2014		8,772	8,268	2,126	1,797	5,289	3,512	1,312	2,039	61	101
2015		9,217	7,430	1,693	1,879	6,097	4,090	1,360	2,524	58	148
2016		11,282	7,508	2,066	1,677	7,549	4,537	1,428	2,952	51	106
2017		10,805	6,374	2,573	1,848	5,694	4,506	1,238	3,084	50	134
2018		10,965	6,823	4,141	1,893	5,361	4,114	1,137	2,829	50	98
2017	11	1,010	407	251	1,956	475	407	114	275	5	13
	12	1,109	747	615	1,848	595	364	107	236	8	14
2018	1	1,225	633	507	1,814	707	414	115	275	10	13
	2	1,028	569	427	1,848	523	337	87	233	8	10
	3	978	639	531	1,693	535	360	91	252	6	10
	4	1,011	544	316	1,759	400	364	107	245	4	9
	5	958	599	316	1,845	382	340	108	220	3	9
	6	775	604	276	1,943	362	318	94	216	2	6
	7	939	369	352	1,841	427	319	90	220	2	7
	8	978	408	342	1,719	429	310	81	223	1	5
	9	734	711	283	1,806	341	313	83	222	2	5
	10	654	511	225	1,658	437	353	99	243	3	7
	11	815	623	231	1,866	372	326	86	231	3	7
	12	868	614	334	1,893	446	358	97	247	6	8
2019 ^o	1	976	477	196	2,018	461	346	100	223	7	16
	2	760	416	98	2,187	376	315	88	205	7	15
	3	712	216	171	1,949	459	303	79	209	4	11
	4	876	171	210	1,865	306	269	72	185	3	8
	5	682	543	179	2,023	301	280	74	198	2	7
	6	595	483	130	1,946	280	265	72	186	1	6
	7	732	465	190	1,863	296	270	83	178	2	9
	8	814	634	275	1,967	256	230	54	169	1	6
	9	740	460	252	2,094	205	199	63	124	3	8
	10	835	260	376	2,056	209	189	57	122	2	7
	11	715	142	342	1,790	242	212	61	138	3	10
2018	1-11	10,097	6,209	3,807	1,866	4,915	3,755	1,040	2,582	44	90
2019 ^o	1-11	8,439	4,266	2,419	1,790	3,391	2,879	804	1,938	35	102

1. 1차에너지 공급량

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

자료: 한국석유공사-PEDSIS

1. Primary energy supply.

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

Source: Korea National Oil Corporation-PEDSIS

3.13 액화석유가스(LPG) 수급

LPG supply and demand

구 분		생산 Production	수입 Import	수출 Export	재고 Stock	공급 ¹ Supply ¹	소비 Consumption				
							합계 Total	산업 Industry	수송 Transport	가정 Residential	상업·공공 Commercial/ Public
1,000 ton											
1990		1,065	2,247	94	203	3,020	...	...	...	...	...
1995		1,399	4,398	248	79	5,593	4,568	860	1,496	2,189	23
1996		1,390	4,578	300	72	5,760	4,809	885	1,577	2,327	21
1997		1,835	4,739	385	352	6,035	5,403	1,314	1,686	2,371	32
1998		2,428	4,075	887	333	5,769	5,432	1,569	1,771	1,890	201
1999		2,673	4,790	1,158	259	6,552	6,188	1,700	2,202	2,124	161
2000		3,091	4,677	688	262	7,261	7,002	1,625	2,926	2,335	117
2001		3,498	4,059	416	217	7,296	7,144	1,418	3,344	2,282	100
2002		3,603	4,745	247	412	7,903	7,767	1,710	3,584	2,338	136
2003		3,395	4,276	247	459	7,690	7,615	1,567	3,742	2,180	127
2004		3,430	4,037	83	538	7,705	7,577	1,655	3,801	2,004	116
2005		3,312	4,205	62	432	7,983	7,870	1,822	3,966	992	1,089
2006		3,190	4,606	66	409	8,158	8,091	2,038	4,105	838	1,110
2007		3,013	4,983	45	259	8,493	8,431	2,153	4,366	873	1,038
2008		3,037	5,448	31	221	8,931	8,754	2,694	4,381	806	873
2009		3,065	5,723	10	190	9,290	9,092	2,906	4,500	805	881
2010		2,823	6,008	74	222	9,156	8,761	2,669	4,468	794	830
2011		1,583	6,366	75	267	8,636	8,110	2,268	4,249	769	823
2012		1,476	6,018	147	235	8,307	7,712	2,082	4,104	660	866
2013		1,739	5,705	70	165	8,136	7,998	2,459	4,013	722	804
2014		2,128	5,480	112	365	7,836	7,776	2,586	3,759	703	727
2015		2,214	5,358	105	312	7,793	7,720	2,494	3,717	546	962
2016		2,268	7,025	155	274	9,340	9,251	4,132	3,552	610	957
2017		2,768	6,121	200	338	8,986	8,861	3,992	3,325	572	973
2018		2,969	6,628	405	412	9,380	9,202	4,547	3,100	579	975
2017	11	245	473	29	314	687	673	281	255	51	87
	12	272	540	27	338	803	792	340	278	67	107
2018	1	278	561	34	358	819	810	372	259	69	110
	2	239	604	26	418	786	734	362	225	55	92
	3	236	535	23	351	829	794	385	258	54	97
	4	238	605	20	411	764	755	356	261	51	87
	5	280	446	26	294	836	828	418	276	49	85
	6	257	581	34	311	804	791	425	262	38	66
	7	261	533	31	320	775	766	397	278	33	58
	8	249	522	19	331	760	748	372	279	34	63
	9	226	474	36	292	723	716	350	262	39	66
	10	241	568	54	378	699	692	335	239	45	73
	11	220	595	47	451	728	719	347	243	49	81
	12	244	603	56	412	858	848	429	257	64	98
2019 ^p	1	249	728	58	433	895	884	433	263	74	114
	2	224	444	41	306	740	730	349	235	57	89
	3	264	513	25	260	782	774	378	253	55	88
	4	280	598	29	310	802	783	383	255	55	90
	5	250	545	37	319	769	758	398	248	42	69
	6	254	514	22	340	747	735	415	232	32	56
	7	274	733	18	442	894	881	516	263	36	66
	8	264	647	36	394	934	921	535	286	37	64
	9	211	775	52	446	899	888	550	243	35	60
	10	188	710	68	328	969	957	555	270	50	82
	11	210	751	45	318	943	927	546	245	52	84
2018	1-11	2,725	6,024	350	451	8,522	8,353	4,118	2,843	515	878
2019 ^p	1-11	2,667	6,959	431	318	9,373	9,237	5,058	2,792	525	862

1. 1차에너지 공급량

주: 부탄과 프로판의 합계

자료: 한국석유공사-PEDSIS

1. Primary energy supply.

Note: Sum of butane and propane.

Source: Korea National Oil Corporation-PEDSIS

3.14 납사 수급

Naphtha supply and demand

구 분		생산	수입	수출	재고	공급 ¹	소비 Consumption				
		Production	Import	Export	Stock	Supply ¹	합계	산업	수송	가정	상업·공공 Commercial/ Public
		1,000 ton									
1990		3,861	1,676	362	185	5,173	...	...	...	...	...
1995		9,608	7,815	2,321	579	14,303	14,303	14,303	0	0	0
1996		11,219	8,725	3,347	737	15,369	15,369	15,369	0	0	0
1997		16,788	8,630	4,019	879	21,205	21,205	21,205	0	0	0
1998		16,735	11,434	4,879	868	23,265	23,265	23,265	0	0	0
1999		17,890	11,001	5,028	673	23,815	23,815	23,815	0	0	0
2000		18,169	12,106	5,314	753	24,917	24,917	24,915	0	0	2
2001		17,697	13,026	5,573	996	25,379	25,379	25,379	0	0	0
2002		17,832	13,263	4,889	829	26,687	26,687	26,687	0	0	0
2003		16,201	14,358	3,369	639	27,460	27,460	27,460	0	0	0
2004		18,259	14,291	3,390	1,194	28,597	28,536	28,536	0	0	0
2005		19,187	13,413	2,806	1,257	29,726	29,726	29,726	0	0	0
2006		19,916	13,812	3,045	1,159	31,223	31,223	31,223	0	0	0
2007		21,225	15,640	3,201	1,048	34,470	34,470	34,470	0	0	0
2008		18,901	16,686	2,493	1,065	33,873	33,873	33,873	0	0	0
2009		17,304	19,673	2,890	906	35,097	35,097	35,097	0	0	0
2010		18,464	20,517	3,493	961	36,098	36,098	36,098	0	0	0
2011		21,225	20,507	3,850	958	38,641	38,641	38,641	0	0	0
2012		22,530	22,567	3,621	1,283	41,840	41,840	41,840	0	0	0
2013		22,589	22,660	4,303	1,384	41,802	41,802	41,802	0	0	0
2014		23,726	22,381	3,847	1,394	43,117	43,117	43,117	0	0	0
2015		27,190	21,498	5,204	1,319	44,691	44,691	44,691	0	0	0
2016		28,265	21,999	5,414	1,339	46,789	46,789	46,789	0	0	0
2017		33,710	21,718	4,808	1,110	49,863	49,863	49,863	0	0	0
2018		34,151	23,804	4,739	1,642	49,081	49,081	49,081	0	0	0
2017	11	3,022	1,739	377	1,448	4,222	4,222	4,222	0	0	0
	12	3,033	1,612	406	1,110	4,447	4,447	4,447	0	0	0
2018	1	3,047	1,834	386	1,107	4,386	4,386	4,386	0	0	0
	2	2,773	2,013	359	1,415	3,976	3,976	3,976	0	0	0
	3	2,779	1,921	328	1,543	4,023	4,023	4,023	0	0	0
	4	2,684	1,756	370	1,253	4,086	4,086	4,086	0	0	0
	5	2,915	2,050	357	1,370	4,230	4,230	4,230	0	0	0
	6	2,649	1,942	423	1,287	3,937	3,937	3,937	0	0	0
	7	2,953	2,166	385	1,576	4,155	4,155	4,155	0	0	0
	8	2,813	1,966	428	1,399	4,128	4,128	4,128	0	0	0
	9	2,682	2,051	394	1,340	4,166	4,166	4,166	0	0	0
	10	2,960	1,930	451	1,417	3,952	3,952	3,952	0	0	0
	11	2,875	1,897	452	1,546	3,821	3,821	3,821	0	0	0
	12	3,021	2,277	407	1,642	4,218	4,218	4,218	0	0	0
2019 ^p	1	3,138	1,992	392	1,379	4,306	4,306	4,306	0	0	0
	2	2,763	1,592	353	1,253	3,871	3,871	3,871	0	0	0
	3	2,894	1,780	439	1,260	3,878	3,878	3,878	0	0	0
	4	2,894	1,929	634	1,473	3,764	3,764	3,764	0	0	0
	5	2,790	2,005	454	1,434	3,964	3,964	3,964	0	0	0
	6	2,705	2,073	529	1,655	3,642	3,642	3,642	0	0	0
	7	2,827	2,196	489	1,360	4,236	4,236	4,236	0	0	0
	8	2,868	2,527	430	1,456	4,161	4,161	4,161	0	0	0
	9	2,836	2,127	391	1,415	4,033	4,033	4,033	0	0	0
	10	2,635	1,952	281	1,331	3,726	3,726	3,726	0	0	0
	11	2,759	2,018	390	1,153	3,954	3,954	3,954	0	0	0
2018	1-11	31,130	21,527	4,332	1,546	44,863	44,863	44,863	0	0	0
2019 ^p	1-11	31,109	22,191	4,783	1,153	43,536	43,536	43,536	0	0	0

자료: 한국석유공사-PEDSIS

Source: Korea National Oil Corporation-PEDSIS

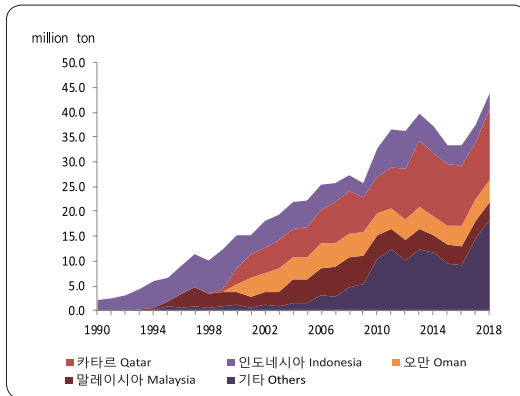
4. 가스

Natural gas & City gas

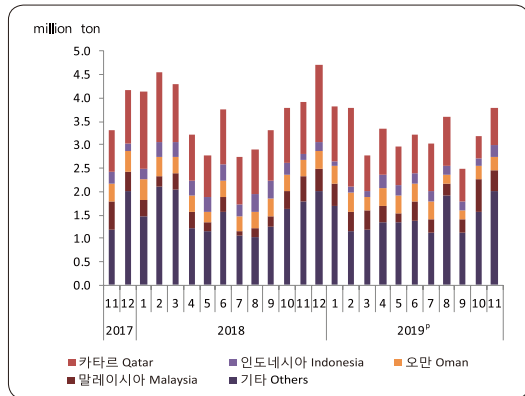


□ 천연가스 수입 Natural gas import

<1990~2018>

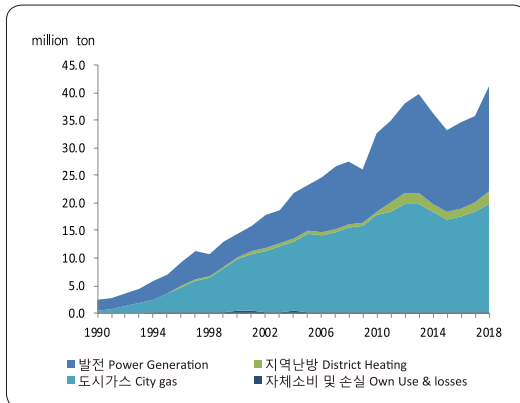


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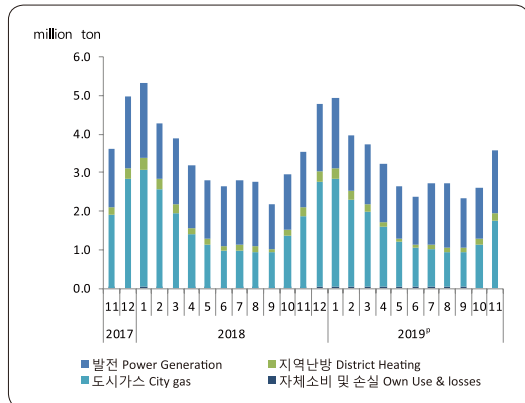


□ 천연가스 소비 Natural gas consumption

<1990~2018>

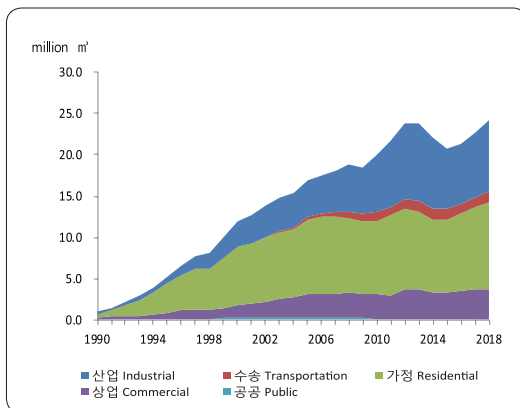


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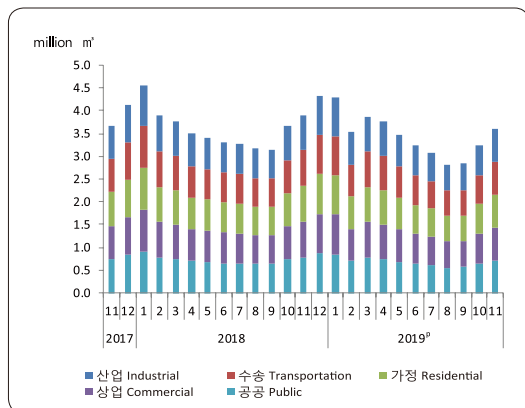


□ 도시가스 소비 City gas consumption

<1990~2018>



<월별 Monthly>



4.1. 천연가스 수입

Natural gas import

구 분		카고수 ¹	수입액	수입량 Import volume					
		No. of cargos ¹	Import value	합계	카타르	인도네시아	오만	말레이시아	기타 ²
				Total	Qatar	Indonesia	Oman	Malaysia	Others ²
		unit	million US\$	1,000 ton					
1990		41	460	2,237	-	2,237	-	0	-
1995		125	1,275	6,756	-	4,892	-	1,040	824
1996		168	1,878	9,258	-	5,975	-	2,573	710
1997		205	2,296	11,471	-	6,730	-	3,928	813
1998		188	1,549	10,189	-	6,736	-	2,851	602
1999		227	1,973	12,284	480	7,943	-	3,046	815
2000		248	3,882	15,239	3,251	6,633	1,619	2,529	1,208
2001		270	3,990	15,318	4,655	4,055	3,784	2,175	648
2002		298	4,120	17,993	5,123	5,256	3,970	2,400	1,243
2003		326	5,082	19,308	5,694	5,200	4,714	2,798	902
2004		371	6,552	21,781	5,818	5,290	4,411	4,638	1,624
2005		374	8,646	22,317	6,211	5,502	4,244	4,688	1,674
2006		410	11,925	25,256	6,458	5,060	5,221	5,546	2,971
2007		413	12,653	25,569	8,031	3,755	4,792	6,161	2,829
2008		460	19,806	27,259	8,744	3,053	4,544	6,247	4,671
2009		384	13,875	25,822	6,973	3,084	4,551	5,874	5,339
2010		504	17,006	32,603	7,449	5,451	4,557	4,745	10,402
2011		532	23,859	36,685	8,153	7,894	4,195	4,144	12,298
2012		538	27,364	36,184	10,278	7,445	4,127	4,082	10,251
2013		590	30,645	39,876	13,354	5,627	4,331	4,314	12,250
2014		538	31,403	37,107	12,853	5,176	3,726	3,673	11,678
2015		490	18,779	33,366	12,442	3,776	3,990	3,698	9,459
2016		500	12,170	33,453	11,880	4,362	4,081	3,813	9,317
2017		504	15,616	37,537	11,554	3,542	4,231	3,749	14,461
2018		561	23,189	44,015	14,245	3,447	4,282	3,702	18,339
2017	11	45	1,328	3,317	892	259	366	624	1,176
	12	51	1,789	4,160	1,126	177	421	421	2,015
2018	1	56	1,870	4,126	1,626	249	420	352	1,479
	2	57	2,353	4,549	1,482	315	417	228	2,107
	3	59	2,094	4,287	1,234	309	358	354	2,031
	4	42	1,554	3,207	972	313	359	354	1,209
	5	37	1,415	2,774	876	316	241	181	1,160
	6	43	1,907	3,741	1,146	367	359	301	1,569
	7	36	1,423	2,739	1,005	266	303	113	1,051
	8	30	1,541	2,895	935	379	359	182	1,041
	9	49	1,865	3,319	1,087	375	371	241	1,245
	10	42	2,189	3,775	1,149	254	358	373	1,641
	11	49	2,278	3,899	1,092	121	358	528	1,800
	12	61	2,701	4,704	1,640	185	378	495	2,007
2019 ^p	1	54	2,240	3,816	1,165	111	362	490	1,688
	2	39	2,323	3,781	1,684	119	419	413	1,146
	3	40	1,560	2,769	759	119	302	416	1,174
	4	40	1,612	3,345	981	303	362	353	1,347
	5	36	1,427	2,964	822	238	362	182	1,360
	6	38	1,515	3,221	816	246	368	426	1,365
	7	36	1,476	3,022	1,003	239	364	297	1,120
	8	39	1,722	3,591	1,044	184	206	233	1,925
	9	33	1,266	2,483	706	184	180	291	1,122
	10	38	1,530	3,194	470	183	291	677	1,573
	11	49	1,725	3,800	808	243	299	432	2,019
2018	1-11	500	20,488	39,311	12,605	3,263	3,904	3,207	16,333
2019 ^p	1-11	442	18,397	35,987	10,257	2,169	3,514	4,208	15,833

1. 1카고는 58,000톤

1. 1 cargo is 58,000 tons.

2. 호주, 미국, 러시아, 나이지리아, 예멘, 브루나이 등

2. Australia, US, Russia, Nigeria, Yemen, Brunei etc.

자료: 한국가스공사, 한국무역협회 등

Source: Korea Gas Corporation, Korea International Trade Association etc.

4.2 천연가스 생산 및 소비

Natural gas production and consumption

구 분		국내생산 Domestic production	소비 Consumption					재고 Stock
			합계 ¹ Total ¹	발전 Power generation	지역난방 District heating	도시가스 City gas	자체소비 및 손실 Own use and loss	
		1,000 ton						
1990		-	2,329	1,741	-	576	12	46
1995		-	7,087	3,562	-	3,417	108	103
1996		-	9,363	4,449	173	4,561	179	369
1997		-	11,379	5,198	179	5,770	232	605
1998		-	10,645	4,030	160	6,233	222	527
1999		-	12,961	4,591	177	7,886	306	539
2000		-	14,557	4,353	335	9,528	340	591
2001		-	15,990	4,657	630	10,300	403	738
2002		-	17,766	5,900	609	11,194	63	426
2003		-	18,610	5,853	615	11,978	165	1,063
2004		163	21,809	8,242	576	12,504	487	1,602
2005		398	23,350	8,359	685	14,077	229	959
2006		355	24,619	9,860	619	13,957	183	1,936
2007		271	26,664	11,296	631	14,596	141	1,099
2008		181	27,439	11,175	603	15,489	173	2,558
2009		383	26,083	9,705	524	15,634	220	1,728
2010		415	33,083	14,268	651	17,522	213	2,667
2011		347	35,603	14,759	1,760	18,255	214	3,323
2012		334	38,485	16,132	2,046	19,558	200	1,840
2013		355	40,278	18,021	2,108	19,596	195	2,237
2014		247	36,636	16,305	1,654	18,180	144	3,182
2015		144	33,446	14,570	1,538	16,929	73	3,034
2016		118	34,906	15,507	1,556	17,384	74	1,695
2017		261	36,398	15,594	1,684	18,390	122	2,308
2018		234	42,285	18,945	2,255	19,813	150	4,389
2017	11	20	3,680	1,504	199	1,911	9	3,484
	12	22	5,030	1,846	292	2,806	25	2,308
2018	1	23	5,370	1,925	319	3,029	37	1,199
	2	21	4,355	1,441	278	2,539	42	1,110
	3	22	3,973	1,736	222	1,941	14	1,800
	4	22	3,245	1,616	172	1,392	6	1,720
	5	23	2,895	1,516	152	1,142	3	1,790
	6	22	2,761	1,563	107	992	3	2,524
	7	19	2,908	1,659	145	987	4	2,729
	8	22	2,874	1,681	143	929	4	2,426
	9	19	2,285	1,152	74	947	5	3,876
	10	7	3,080	1,455	138	1,363	6	4,333
	11	16	3,654	1,450	241	1,832	6	4,347
	12	18	4,886	1,753	266	2,720	20	4,389
2019 ^p	1	6	5,073	1,829	260	2,796	57	3,405
	2	17	4,122	1,469	212	2,261	53	2,604
	3	19	3,855	1,529	204	1,959	46	2,112
	4	21	3,355	1,503	126	1,548	41	2,080
	5	21	2,756	1,363	106	1,130	38	2,325
	6	20	2,485	1,226	86	984	52	3,166
	7	19	2,885	1,594	116	957	62	3,352
	8	19	2,862	1,638	118	889	62	3,954
	9	11	2,479	1,290	96	891	55	4,199
	10	5	2,814	1,320	136	1,149	60	4,420
	11	11	3,771	1,608	196	1,770	58	4,613
2018	1-11	216	37,399	17,192	1,990	17,093	130	4,347
2019 ^p	1-11	168	36,457	16,369	1,656	16,335	582	4,613

1. 산업부문 소비 포함.
자료: 한국가스공사 등

1. Include industry consumption.
Source: Korea Gas Corporation etc.

4.3 도시가스 수급

City Gas supply and demand

구 분	원료 Raw materials		생산 ¹ Production ¹	소비 Consumption					
	프로판 Propane	LNG		합계 Total	산업 Industry	수송 Transportation	가정 Residential	상업 Commercial	공공 Public
	1,000 ton			million m ³					
1990	207	707	968	963	223	-	433	307	-
1995	1,015	4,219	5,383	5,327	822	-	3,588	799	119
1996	905	5,679	6,739	6,607	1,139	-	4,300	1,022	145
1997	644	6,991	7,857	7,708	1,425	-	5,045	1,085	154
1998	338	7,675	8,080	8,024	1,725	-	5,087	1,059	152
1999	360	9,826	10,260	10,012	2,410	-	6,104	1,309	189
2000	245	11,631	11,924	11,963	3,151	-	7,003	1,591	218
2001	134	12,590	12,751	12,657	3,440	7	7,168	1,796	247
2002	125	13,666	13,815	13,873	3,794	76	7,723	2,030	250
2003	66	14,871	14,950	14,734	3,978	139	8,124	2,246	246
2004	67	15,280	15,360	15,422	4,173	227	8,225	2,530	266
2005	68	17,568	17,650	16,963	4,434	323	9,070	2,838	298
2006	39	17,045	17,092	17,504	4,616	452	9,224	3,021	190
2007	42	17,763	17,786	17,967	4,952	583	9,216	2,946	270
2008	44	18,871	18,921	18,734	5,624	736	9,122	2,975	277
2009	46	19,187	19,239	18,445	5,584	910	8,784	2,905	262
2010	45	21,066	21,118	19,982	6,947	1,054	8,878	2,960	144
2011	57	22,660	22,727	21,679	7,946	1,113	9,597	2,916	106
2012	56	24,262	24,327	23,776	9,135	1,200	9,720	3,546	174
2013	49	24,243	24,298	23,890	9,510	1,247	9,457	3,582	94
2014	11	22,286	22,264	22,091	8,677	1,253	8,748	3,332	81
2015	13	20,466	20,481	20,785	7,329	1,235	8,813	3,326	82
2016	30	21,643	21,770	21,271	7,226	1,217	9,249	3,494	84
2017	18	22,895	23,327	22,603	7,784	1,218	9,950	3,576	74
2018	19	24,667	25,177	24,275	8,773	1,203	10,593	3,608	96
2017	11	2	2,379	2,424	2,093	736	101	944	306
	12	3	3,494	3,559	3,128	827	103	1,763	425
2018	1	3	3,772	3,850	3,545	912	100	2,005	514
	2	3	3,161	3,227	3,237	777	89	1,911	446
	3	2	2,417	2,467	2,556	754	100	1,360	318
	4	2	1,733	1,769	1,877	697	98	830	246
	5	1	1,421	1,451	1,513	682	101	517	210
	6	1	1,235	1,261	1,293	659	101	311	220
	7	1	1,228	1,254	1,252	655	107	232	254
	8	1	1,157	1,181	1,171	631	107	167	262
	9	1	1,179	1,203	1,153	629	98	214	209
	10	1	1,697	1,732	1,543	730	101	496	213
	11	2	2,280	2,327	2,128	781	99	956	286
	12	3	3,387	3,457	3,006	867	102	1,594	432
2019 ⁹	1	3	3,481	3,554	3,381	856	98	1,940	473
	2	3	2,815	2,873	2,888	705	86	1,689	396
	3	2	2,439	2,489	2,489	773	98	1,284	326
	4	1	1,927	1,967	2,075	752	97	948	273
	5	1	1,407	1,436	1,535	691	101	520	220
	6	1	1,226	1,251	1,274	645	100	307	219
	7	1	1,191	1,217	1,209	615	105	237	249
	8	1	1,107	1,130	1,125	560	101	204	254
	9	1	1,110	1,133	1,111	566	97	228	217
	10	1	1,431	1,460	1,354	649	99	395	209
	11	2	2,204	2,249	1,992	717	97	886	286
2018	1-11	17	21,280	21,720	21,268	7,907	1,102	8,999	3,177
2019 ⁹	1-11	17	20,337	20,758	20,433	7,528	1,079	8,639	3,123

1. 1990, 1991년은 납사 포함.
자료: 한국도시가스협회

1. Figures in 1990 and 1991 include naphtha.
Source: Korea Gas Corporation

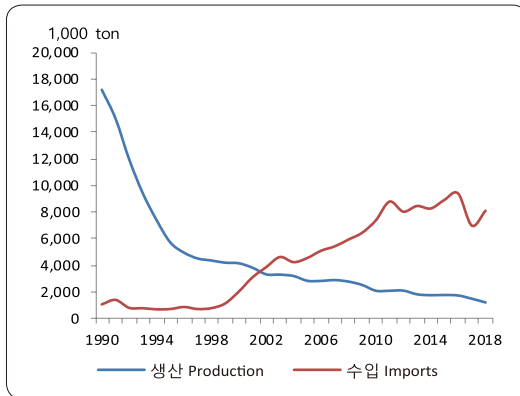
5. 석 탄

Coal

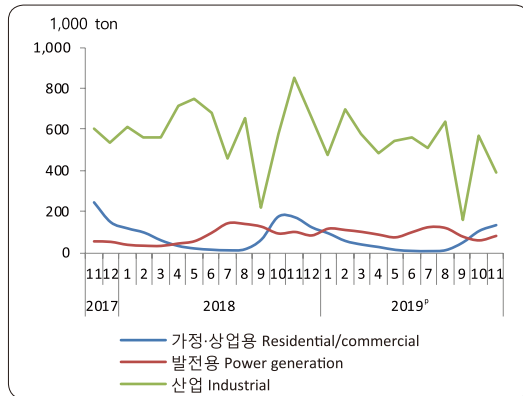


□ 무연탄 수급 Anthracite supply and demand

<1990~2018>

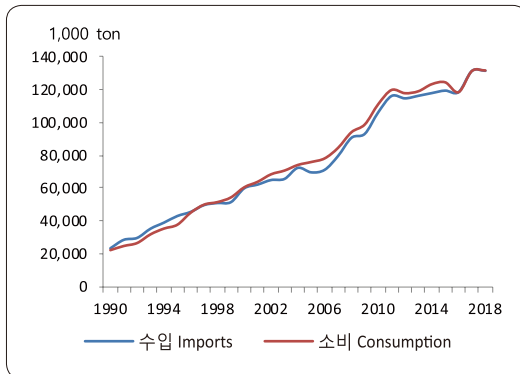


<월별 Monthly>

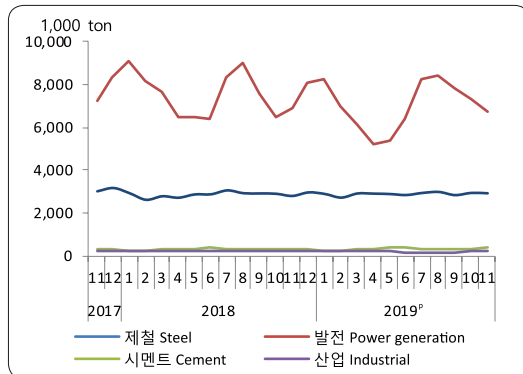


□ 유연탄 수급 Bituminous coal supply and demand

<1990~2018>

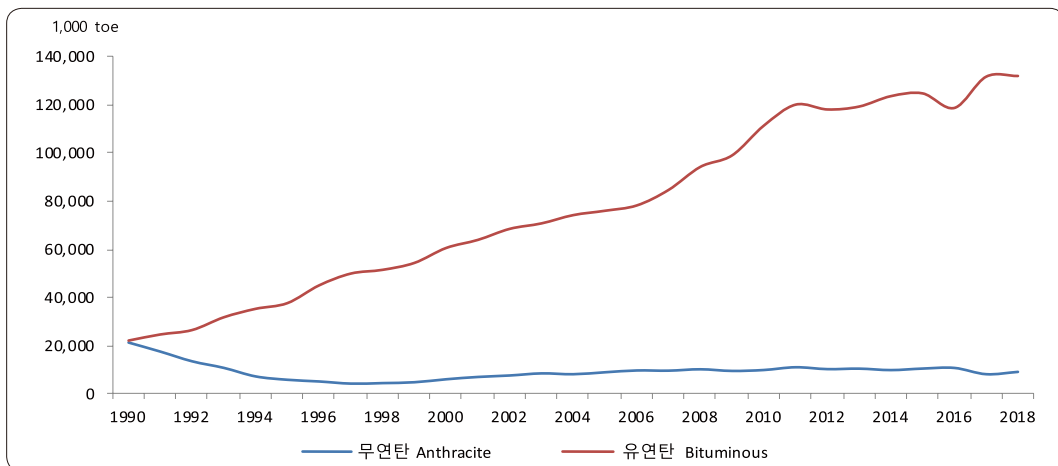


<월별 Monthly>



□ 석탄 소비 Coal consumption

<1990~2018>



5.1 무연탄 수급

Anthracite supply and demand

구 분	생산 Production	수입 Imports	소비 Consumption			재고 Stock		
			합계 Total	국내탄 Domestic coal	수입탄 Import coal	국내탄 Domestic coal	수입탄 Import coal	
1,000 ton								
1990		17,217	1,072	21,091	19,802	1,289	6,514	1,499
1995		5,720	723	5,999	5,367	632	7,422	1,070
1996		4,951	875	5,312	4,406	906	7,898	1,039
1997		4,512	722	4,444	3,659	785	8,744	976
1998		4,361	789	4,650	3,812	838	9,342	927
1999		4,197	1,139	4,995	3,803	1,192	9,863	874
2000		4,150	2,038	6,200	4,159	2,041	9,903	871
2001		3,817	3,110	7,141	4,027	3,114	9,709	867
2002		3,318	3,879	7,735	3,808	3,927	9,282	819
2003		3,298	4,640	8,584	3,924	4,660	8,728	799
2004		3,191	4,251	8,249	3,871	4,378	8,222	672
2005		2,832	4,567	9,037	4,347	4,690	6,839	549
2006		2,824	5,113	9,769	4,596	5,173	5,062	489
2007		2,886	5,444	9,690	4,035	5,655	3,953	278
2008		2,773	5,955	10,247	4,134	6,113	2,677	120
2009		2,519	6,468	9,585	3,114	6,472	2,122	116
2010		2,084	7,406	9,956	2,508	7,448	1,779	74
2011		2,084	8,816	11,072	2,239	8,833	1,663	57
2012		2,094	8,055	10,315	2,288	8,027	1,702	85
2013		1,815	8,482	10,506	2,054	8,452	1,342	115
2014		1,748	8,294	9,925	1,642	8,283	1,484	126
2015		1,764	8,938	10,539	1,541	8,997	1,731	67
2016		1,726	9,424	10,801	1,373	9,428	2,088	63
2017		1,485	7,003	8,260	1,244	7,016	2,391	50
2018		1,200	8,126	9,197	1,099	8,098	2,511	78
2017	11	123	649	905	254	651	2,421	52
	12	122	594	738	142	596	2,391	50
2018	1	125	637	768	131	637	2,384	50
	2	98	584	693	104	589	2,382	45
	3	118	586	649	67	582	2,439	49
	4	118	736	792	54	738	2,516	47
	5	112	782	822	39	783	2,591	46
	6	114	755	792	36	756	2,671	45
	7	89	582	614	41	573	2,714	54
	8	89	786	817	40	777	2,753	63
	9	77	325	414	87	327	2,752	61
	10	86	654	849	186	663	2,657	52
	11	96	940	1,124	184	940	2,575	52
	12	78	758	862	130	732	2,511	78
2019 ^p	1	100	538	687	119	568	2,508	48
	2	81	782	871	89	782	2,508	48
	3	90	643	722	77	645	2,500	46
	4	104	537	599	56	543	2,568	40
	5	92	607	630	22	608	2,629	39
	6	85	612	669	56	613	2,679	38
	7	86	604	644	39	605	2,722	37
	8	85	728	775	46	729	2,759	36
	9	89	206	288	80	208	2,773	34
	10	87	594	734	136	598	2,709	30
	11	97	440	608	163	445	2,656	25
2018	1-11	1,122	7,367	8,334	969	7,365	2,575	52
2019 ^p	1-11	996	6,291	7,227	883	6,344	2,656	25

자료: 대한석탄협회, 산업통상자원부

Source: Korea Coal Association, Ministry of Trade, Industry & Energy

5.2 부문별 무연탄 소비

Anthracite consumption by sector

구 분		가정·상업 Residential/Commercial			발전 Power generation		산업용 Industrial	기타 Others	합계 Total
		국내탄	수입탄	소계	수입탄	소계			
		Domestic coal	Import coal	Subtotal	Import coal	Subtotal			
1,000 ton									
1990		17,602	1,177	18,779	-	1,983	283	46	21,091
1995		2,987	18	3,005	79	2,400	594	-	5,999
1996		1,957	4	1,961	86	2,507	844	-	5,312
1997		1,389	-	1,389	61	2,302	753	-	4,444
1998		1,229	-	1,229	30	2,451	970	-	4,650
1999		1,117	-	1,117	50	2,552	1,326	-	4,999
2000		1,192	-	1,192	-	2,850	2,158	-	6,200
2001		1,230	-	1,230	-	2,689	3,221	-	7,141
2002		1,175	-	1,175	-	2,558	4,002	-	7,735
2003		1,174	17	1,191	-	2,710	4,683	-	8,584
2004		1,370	15	1,385	-	2,356	4,508	-	8,249
2005		1,959	51	2,010	-	2,354	4,673	-	9,037
2006		2,224	103	2,327	-	2,356	5,086	-	9,769
2007		1,872	219	2,091	294	2,450	5,149	-	9,690
2008		2,163	126	2,289	579	2,539	5,419	-	10,247
2009		1,746	195	1,941	1,330	2,690	4,954	-	9,585
2010		1,669	190	1,859	1,565	2,404	5,693	-	9,956
2011		1,696	126	1,822	1,116	1,659	7,592	-	11,072
2012		1,697	136	1,833	1,206	1,797	6,685	-	10,315
2013		1,731	186	1,917	1,406	1,729	6,861	-	10,506
2014		1,392	237	1,629	1,794	2,044	6,251	-	9,925
2015		1,296	177	1,473	1,880	2,125	6,940	-	10,539
2016		1,133	122	1,255	2,288	2,528	7,017	-	10,801
2017		1,009	70	1,079	844	1,079	6,103	-	8,260
2018		869	41	910	762	992	7,295	-	9,197
2017	11	237	10	247	37	54	604	-	905
	12	126	23	149	35	51	538	-	738
2018	1	113	6	119	18	36	613	-	768
	2	93	5	98	21	32	563	-	693
	3	56	4	60	20	31	559	-	649
	4	31	2	33	20	43	717	-	792
	5	19	1	20	35	55	747	-	822
	6	13	1	14	74	97	681	-	792
	7	10	1	11	116	147	456	-	614
	8	15	1	16	118	143	659	-	817
	9	63	2	65	105	129	220	-	414
	10	169	8	177	77	94	578	-	849
	11	167	6	173	85	102	849	-	1,124
	12	120	4	124	74	84	654	-	862
2019 ⁹	1	89	5	94	89	119	474	-	687
	2	54	3	57	77	112	702	-	871
	3	36	3	39	61	102	581	-	722
	4	21	6	27	53	88	484	-	599
	5	12	1	13	65	75	542	-	630
	6	7	1	8	53	102	559	-	669
	7	6	1	7	94	127	510	-	644
	8	11	1	12	87	122	641	-	775
	9	47	2	49	46	79	160	-	288
	10	103	4	107	26	59	568	-	734
	11	130	5	135	49	82	391	-	608
2018	1-11	749	37	786	687	907	6,641	-	8,334
2019 ⁹	1-11	516	32	548	698	1,065	5,613	-	7,227

자료: 대한석탄협회, 산업통상자원부

Source: Korea Coal Association, Ministry of Trade, Industry & Energy

5.3 유연탄 수급

Bituminous coal supply and demand

구 분	수입 Import			소비 Consumption		
	합계 Total	원료탄 Coking coal	연료탄 Thermal coal	합계 Total	원료탄 Coking coal	연료탄 Thermal coal
	1,000 ton					
1990	22,844	11,285	11,559	21,878	11,739	10,139
1995	42,601	17,784	24,817	37,426	16,372	21,054
1996	45,136	17,408	27,728	44,809	17,303	27,506
1997	49,312	17,394	31,918	49,712	18,178	31,534
1998	50,566	17,979	32,587	51,261	18,329	32,932
1999	51,101	17,227	33,874	54,137	18,442	35,696
2000	59,600	19,575	40,025	60,346	19,415	40,931
2001	61,856	17,899	43,957	63,703	19,315	44,388
2002	64,640	17,660	46,980	68,274	20,097	48,177
2003	65,318	17,676	47,642	70,549	20,509	50,041
2004	72,103	18,954	53,149	73,984	20,839	53,145
2005	69,330	16,975	52,355	75,796	20,810	54,986
2006	70,888	16,466	54,422	78,001	20,731	57,270
2007	79,355	18,385	60,970	84,438	21,519	62,919
2008	90,470	20,912	69,558	94,013	23,568	70,445
2009	92,952	19,553	73,399	98,789	20,734	78,055
2010	106,096	24,328	81,768	111,162	27,210	83,952
2011	116,118	26,157	89,961	119,870	31,762	88,108
2012	114,645	25,857	88,788	117,872	31,487	86,385
2013	116,220	31,361	84,859	119,078	32,053	87,025
2014	117,873	35,198	82,675	123,399	37,611	85,788
2015	119,392	34,148	85,244	124,547	36,753	87,794
2016	118,468	33,030	85,438	118,509	33,460	85,049
2017	131,464	36,442	95,022	131,490	36,290	95,200
2018	131,520	34,247	97,273	131,779	34,619	97,160
2017	11	10,000	2,800	7,200	10,879	3,032
	12	11,001	2,904	8,097	12,091	3,180
2018	1	11,600	2,978	8,622	12,493	2,942
	2	10,383	2,646	7,737	11,275	2,650
	3	11,461	3,131	8,330	11,027	2,810
	4	12,258	2,827	9,431	9,742	2,744
	5	9,946	2,852	7,094	9,953	2,892
	6	10,202	2,410	7,792	9,886	2,899
	7	10,800	2,975	7,825	11,981	3,073
	8	11,031	2,648	8,383	12,455	2,945
	9	11,642	2,943	8,699	11,008	2,936
	10	10,147	3,389	6,758	9,978	2,921
	11	11,672	2,393	9,279	10,310	2,824
	12	10,378	3,055	7,323	11,672	2,983
2019 ^p	1	12,910	2,834	10,076	11,665	2,911
	2	10,714	2,396	8,318	10,175	2,748
	3	8,125	3,344	4,781	9,638	2,934
	4	10,089	3,006	7,083	8,685	2,927
	5	10,580	3,350	7,230	8,865	2,909
	6	9,445	2,778	6,667	9,801	2,865
	7	12,047	2,806	9,241	11,709	2,959
	8	12,643	3,377	9,266	11,924	3,003
	9	11,035	2,351	8,684	11,229	2,861
	10	12,391	2,957	9,434	10,855	2,959
	11	11,074	3,178	7,896	10,289	2,943
2018 1-11		121,142	31,192	89,950	120,107	31,636
2019 ^p 1-11		121,053	32,377	88,676	114,834	32,019

자료 : 대한석탄협회, 산업통상자원부

Source: Korea Coal Association, Ministry of Trade, Industry & Energy

5.4 부문별 유연탄 소비

Bituminous coal consumption by sector

구 분		합계 Total	제철 Steel	발전 Power generation	시멘트 Cement	산업 Industrial
1,000 ton						
1990		21,878	11,739	5,724	3,534	882
1995		37,426	16,372	13,752	5,590	1,965
1996		44,809	17,303	19,019	5,758	2,729
1997		49,712	18,178	22,714	6,593	2,227
1998		51,261	18,329	25,682	5,019	2,231
1999		54,137	18,442	28,297	5,069	2,330
2000		60,346	19,415	33,305	5,308	2,319
2001		63,703	19,315	36,601	5,475	2,312
2002		68,274	20,097	40,143	5,669	2,365
2003		70,549	20,509	41,631	6,060	2,349
2004		73,984	20,839	45,512	5,309	2,324
2005		75,796	20,810	47,852	4,807	2,327
2006		78,001	20,731	50,199	4,738	2,333
2007		84,438	21,519	55,487	5,051	2,381
2008		94,013	23,568	62,791	5,236	2,418
2009		98,789	20,734	71,091	4,463	2,501
2010		111,162	27,210	76,674	4,564	2,714
2011		119,870	31,762	80,393	5,046	2,669
2012		117,872	31,487	79,136	4,625	2,624
2013		119,078	32,053	79,692	4,647	2,686
2014		123,399	37,611	78,227	4,916	2,645
2015		124,547	36,753	80,354	4,650	2,790
2016		118,509	33,460	77,761	4,591	2,696
2017		131,490	36,290	88,309	4,175	2,716
2018		131,779	34,619	90,764	3,709	2,687
2017	11	10,879	3,032	7,271	350	227
	12	12,091	3,180	8,312	336	264
2018	1	12,493	2,942	9,061	243	247
	2	11,275	2,650	8,159	237	228
	3	11,027	2,810	7,686	283	247
	4	9,742	2,744	6,463	320	216
	5	9,953	2,892	6,498	337	226
	6	9,886	2,899	6,413	374	200
	7	11,981	3,073	8,362	338	207
	8	12,455	2,945	8,990	317	204
	9	11,008	2,936	7,576	300	196
	10	9,978	2,921	6,502	330	226
	11	10,310	2,824	6,945	313	227
	12	11,672	2,983	8,110	316	263
2019 ^p	1	11,665	2,911	8,256	237	261
	2	10,175	2,748	6,952	259	216
	3	9,638	2,934	6,123	336	245
	4	8,685	2,927	5,199	347	212
	5	8,865	2,909	5,358	406	192
	6	9,801	2,865	6,386	376	174
	7	11,709	2,959	8,247	335	168
	8	11,924	3,003	8,430	316	175
	9	11,229	2,861	7,856	330	182
	10	10,855	2,959	7,339	355	202
	11	10,289	2,943	6,749	374	223
2018	1-11	120,107	31,636	82,654	3,393	2,424
2019 ^p	1-11	114,834	32,019	76,895	3,671	2,249

자료 : 대한석탄협회, 산업통상자원부

Source: Korea Coal Association, Ministry of Trade, Industry & Energy

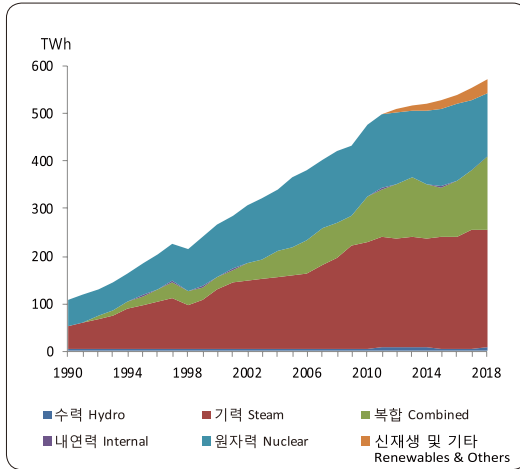
6. 전력 · 열

Electricity & Heat

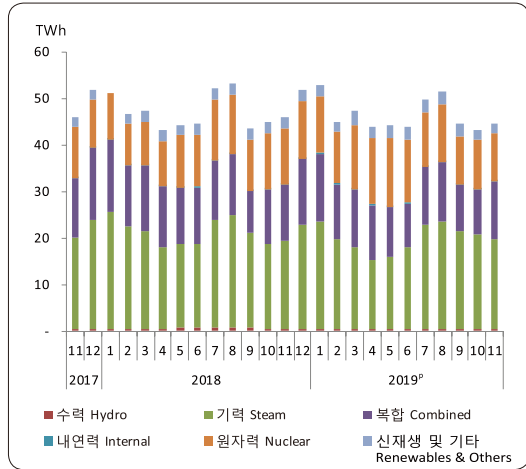


□ 발전 설비별 발전량 Power generation amount by Generating facilities

<1990~2018>

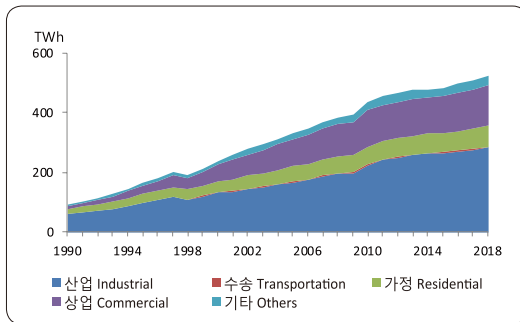


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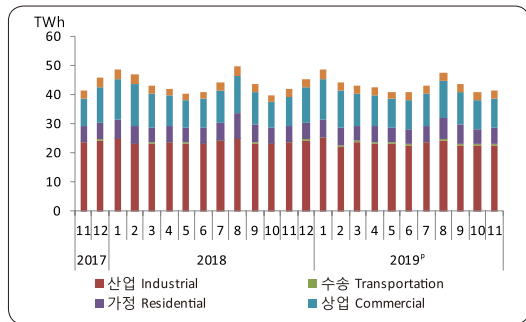


□ 부문별 전력 소비 Electricity consumption by sector

<1990~2018>

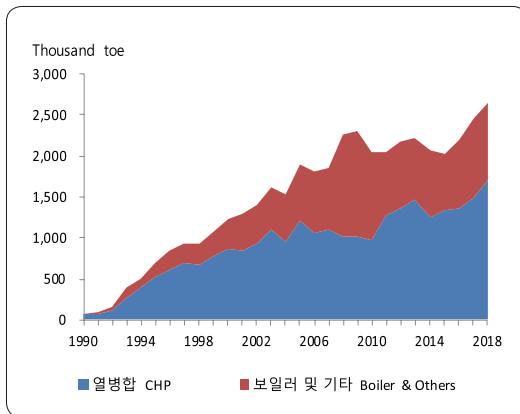


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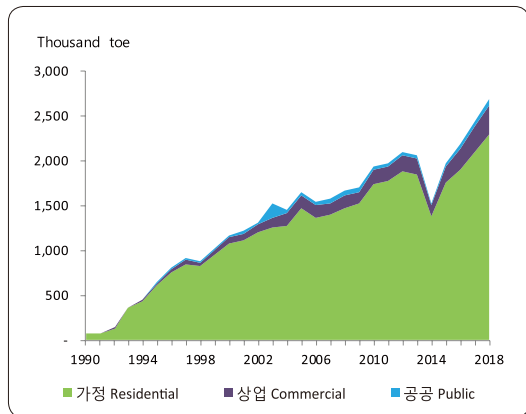


□ 지역난방 생산, 소비 District heating production, consumption

<1990~2018>



<1990~2018>



6.1 발전 현황

Power Generation

구 분		총발전량 Total power generation amount	설비용량 Power plant capacity	공급능력 Supply capability	최대전력 ¹ Peak load ¹	평균전력 Average load	공급예비율 Supplied reserve ratio	평균부하율 Average load factor
		GWh	MW			%		
1990		107,670	21,021	18,680	17,252	12,291	8.3	71.2
1995		184,661	31,793	31,968	29,878	21,080	7.0	70.6
1996		205,494	35,722	34,295	32,282	23,394	6.2	72.5
1997		224,445	40,534	38,452	35,851	25,622	7.3	71.5
1998		215,300	43,261	37,928	32,996	24,578	14.9	74.5
1999		239,325	44,427	43,418	37,293	27,320	16.4	73.3
2000		266,400	47,876	46,078	41,007	30,328	12.4	74.0
2001		285,224	49,632	48,699	43,125	32,560	12.9	75.5
2002		306,474	52,799	52,113	45,773	34,986	13.9	76.4
2003		322,452	56,081	55,488	47,385	36,810	17.1	77.7
2004		342,148	59,129	57,528	51,264	39,058	12.2	76.2
2005		364,639	61,737	60,818	54,631	41,625	11.3	76.2
2006		381,181	64,778	65,183	58,994	43,514	10.5	73.8
2007		403,125	67,196	66,778	62,285	46,019	7.2	73.9
2008		422,355	70,353	68,519	62,794	48,082	9.1	76.6
2009		433,604	73,470	72,071	66,797	49,498	7.9	74.1
2010		474,660	76,078	75,747	71,308	54,185	6.2	76.0
2011		496,893	76,649	77,179	73,137	56,723	5.5	77.6
2012		509,574	81,806	79,972	75,987	58,012	5.2	76.3
2013		517,148	82,296	80,713	76,522	59,035	5.5	77.1
2014		521,971	93,216	89,357	80,154	59,586	11.5	74.3
2015		528,091	94,102	87,926	78,790	60,284	11.6	76.5
2016		540,441	100,180	92,400	85,183	61,694	8.5	72.4
2017		553,530	116,657	96,095	85,133	63,188	12.9	74.2
2018		570,647	117,205	99,570	92,478	69,919	7.7	75.6
2017	11	46,081	116,278	92,807	77,605	63,935	19.6	82.5
	12	51,902	116,657	96,095	85,133	69,694	12.9	81.9
2018	1	53,394	116,428	99,147	87,247	71,766	13.6	82.3
	2	46,472	116,428	101,148	88,238	69,155	14.6	78.4
	3	47,249	116,747	90,761	78,855	63,506	15.1	80.5
	4	43,155	116,747	84,634	70,520	59,938	20.0	85.0
	5	44,298	117,589	82,000	73,173	59,540	12.1	81.4
	6	44,494	117,111	87,256	76,606	61,797	13.9	80.7
	7	52,020	117,205	99,570	92,478	69,919	7.7	75.6
	8	53,235	117,840	100,250	91,548	71,552	9.5	78.2
	9	43,527	117,996	94,223	78,405	60,455	20.2	77.1
	10	44,927	117,996	84,796	70,329	60,386	20.6	85.6
	11	46,037	118,266	93,480	75,914	63,940	23.1	83.8
	12	51,837	119,092	100,841	86,083	69,674	17.1	80.5
2019 ^p	1	52,904	119,092	100,827	85,392	71,107	18.1	83.3
	2	44,932	119,350	98,738	82,869	66,864	19.1	80.7
	3	47,209	119,350	90,422	74,136	63,453	22.0	85.6
	4	43,946	119,826	86,455	73,010	61,036	18.4	83.6
	5	44,334	119,826	86,270	70,964	59,589	21.6	84.0
	6	43,793	120,471	90,520	75,206	60,824	20.4	80.9
	7	49,711	121,147	95,593	84,164	66,815	13.6	79.4
	8	51,611	122,973	96,389	90,314	69,370	6.7	76.8
	9	44,417	122,973	96,032	79,916	61,691	20.2	77.2
	10	43,965	122,490	83,471	73,550	59,093	13.5	80.3
	11	45,127	124,392	87,377	74,393	62,677	17.5	84.3
2018	1-11	518,809	117,205	99,570	92,478	64,722	7.7	70.0
2019 ^p	1-11	511,951	122,973	96,389	90,314	63,866	6.7	70.7

1. 최대전력 발생시점 기준.

자료: 전력통계속보, 한국전력공사

1. Based on the time of maximum power.

Source: The monthly report on major electric power statistics, KEPCO

6.2 발전 설비 현황

Generating facilities

구 분		합계 Total	수력 Hydro	기력 Steam	복합 Combined	내연력 Internal	원자력 Nuclear	신재생 Renewables	기타 ¹ Others ¹
MW									
1990		21,021	2,340	9,912	840	313	7,616	-	-
1995		32,184	3,093	14,032	6,184	259	8,616	-	-
1996		35,715	3,094	14,022	8,719	264	9,616	-	-
1997		41,042	3,115	16,078	11,269	265	10,316	-	-
1998		43,406	3,131	17,209	10,785	265	12,016	-	-
1999		46,978	3,148	18,909	10,935	271	13,716	-	-
2000		48,451	3,149	20,059	11,257	271	13,716	-	-
2001		50,859	3,876	21,559	11,436	273	13,716	-	-
2002		53,801	3,876	21,749	12,186	275	15,716	-	-
2003		56,053	3,877	23,045	13,086	246	15,716	83	-
2004		59,961	3,879	24,693	14,313	252	16,716	108	-
2005		62,258	3,883	25,348	15,015	297	17,716	-	-
2006		65,514	5,485	26,013	16,004	297	17,716	-	-
2007		68,268	5,492	27,734	17,023	303	17,716	-	-
2008		72,491	5,505	31,919	17,044	307	17,716	-	-
2009		73,470	5,515	32,317	17,575	347	17,716	-	-
2010		76,078	5,525	33,386	19,100	351	17,716	-	-
2011		79,342	6,418	34,053	19,799	355	18,716	-	-
2012		81,806	6,446	32,139	19,799	367	20,716	2,338	-
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	40,134	38,229	339	22,529	9,187	-
2018		119,092	6,490	40,376	38,413	339	21,850	11,623	-
2017	11	116,278	6,487	40,257	37,850	339	22,529	8,815	-
	12	116,908	6,489	40,153	38,210	339	22,529	9,187	-
2018	1	116,428	6,489	40,134	37,749	339	22,529	9,187	-
	2	116,428	6,489	40,134	37,749	339	22,529	9,187	-
	3	116,747	6,490	40,131	37,749	339	22,529	9,509	-
	4	116,747	6,490	40,131	37,749	339	22,529	9,509	-
	5	117,790	6,490	40,299	38,227	339	22,529	9,906	-
	6	117,205	6,490	40,299	38,321	339	21,850	9,906	-
	7	117,477	6,490	40,392	38,319	339	21,850	10,086	-
	8	117,996	6,490	40,376	38,413	339	21,850	10,528	-
	9	117,996	6,490	40,376	38,413	339	21,850	10,528	-
	10	117,996	6,490	40,376	38,413	339	21,850	10,528	-
	11	118,266	6,490	40,376	38,413	339	21,850	10,797	-
	12	119,092	6,490	40,376	38,413	339	21,850	11,623	-
2019 ^p	1	119,350	6,493	40,469	38,413	339	21,850	11,785	-
	2	119,350	6,493	40,469	38,413	339	21,850	11,785	-
	3	119,826	6,493	40,294	38,413	339	21,850	12,436	-
	4	119,826	6,493	40,294	38,413	339	21,850	12,436	-
	5	119,826	6,493	40,294	38,413	339	21,850	12,436	-
	6	121,147	6,496	40,219	38,787	339	21,850	13,456	-
	7	121,147	6,496	40,219	38,787	339	21,850	13,456	-
	8	122,973	6,496	40,119	38,787	339	23,250	13,982	-
	9	122,490	6,496	40,119	38,787	339	23,250	13,499	-
	10	124,023	6,496	40,119	39,629	339	23,250	13,338	852
	11	124,392	6,496	40,059	39,998	339	23,250	13,338	912
2018	1-11	118,266	6,490	40,376	38,413	339	21,850	10,797	-
2019 ^p	1-11	124,392	6,496	40,059	39,998	339	23,250	13,338	912

1. 기타: 증류탑폐열, 여열회수, 천연가스압터빈, 부생가스 등

자료: 전력통계속보, 한국전력공사

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

Source : The monthly report on major electric power statistics, KEPSCO

6.3 발전 설비별 발전량

Power generation amount by generating facilities

구 분		합계 Total	수력 Hydro	기력 Steam	복합 Combined cycle	내연력 Internal	원자력 Nuclear	신재생 Renewables	기타 ¹ Others ¹
GWh									
1990		107,670	6,361	47,419	-	1,048	52,887	-	-
1995		184,661	5,478	90,808	20,521	825	67,029	-	-
1996		205,494	5,201	98,654	26,943	772	73,924	-	-
1997		224,445	5,404	106,813	34,424	718	77,086	-	-
1998		215,300	6,099	92,432	26,505	575	89,689	-	-
1999		239,325	6,066	101,138	28,675	382	103,064	-	-
2000		266,400	5,610	124,669	26,863	294	108,964	-	-
2001		285,224	4,151	139,582	29,033	325	112,133	-	-
2002		306,474	5,311	143,370	38,337	353	119,103	-	-
2003		322,452	6,887	145,148	40,375	370	129,672	-	-
2004		342,148	5,861	149,363	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	186,239	77,720	503	150,958	1,373	-
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	-
2017	11	46,081	451	19,565	12,666	40	11,291	2,067	-
	12	51,902	468	23,366	15,429	47	10,438	2,155	-
2018	1	53,394	484	24,997	15,736	51	9,826	2,301	-
	2	46,472	440	22,099	13,009	47	8,791	2,086	-
	3	47,249	463	20,894	14,256	40	9,243	2,352	-
	4	43,155	499	17,504	13,240	43	9,422	2,448	-
	5	44,298	791	17,860	12,029	54	11,368	2,196	-
	6	44,494	732	18,063	12,144	56	11,303	2,196	-
	7	52,020	809	23,032	12,747	55	13,052	2,325	-
	8	53,235	700	24,344	12,932	46	12,753	2,460	-
	9	43,527	713	20,417	8,847	39	11,074	2,437	-
	10	44,927	509	18,283	11,549	29	12,083	2,475	-
	11	46,037	531	18,909	12,034	35	12,158	2,370	-
	12	51,837	599	22,180	14,168	36	12,430	2,423	-
2019 ^p	1	52,904	544	23,144	14,466	44	12,256	2,449	-
	2	44,932	471	19,200	11,946	41	11,034	2,241	-
	3	47,209	450	17,611	12,225	42	14,034	2,847	-
	4	43,946	529	14,824	11,764	47	14,150	2,633	-
	5	44,334	539	15,296	10,644	33	14,771	3,050	-
	6	43,793	480	17,621	9,388	44	13,583	2,678	-
	7	49,711	566	22,375	12,333	52	11,678	2,707	-
	8	51,611	599	23,026	12,649	54	12,197	3,087	-
	9	44,417	564	20,993	9,952	39	10,321	2,549	-
	10	43,965	542	20,085	9,873	57	10,600	2,190	620
	11	45,127	450	19,157	12,644	62	10,228	1,917	669
2018	1-11	518,809	6,671	226,403	138,522	492	121,075	25,646	-
2019 ^p	1-11	511,951	5,734	213,331	127,884	514	134,851	28,348	1,289

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

1. Others: waste heat in distillation tower, waste heat recovery, natural gas pressure turbine, by-product gas
 Source: The monthly report on major electric power statistics, KEPCO

6.4 종별 수용가수 및 판매량

No. of customers and sales volume by type

구 분		수용가수 No. of households			판매량 Sales volume		
		합계 Total	저압(전등) Lighting	고압(동력) Power	합계 Total	저압 Lighting	고압(동력) Power
		1,000 Customer			GWh		
1990		9,315	8,515	800	94,383	17,430	76,953
1995		12,771	12,694	77	163,270	47,272	115,998
1996		13,329	13,243	86	182,470	52,100	130,371
1997		13,913	13,817	96	200,784	56,189	144,595
1998		14,102	13,999	103	193,470	54,990	138,481
1999		14,379	14,266	113	214,215	60,393	153,822
2000		14,976	14,850	126	239,535	69,626	169,910
2001		15,619	15,479	140	257,731	78,556	179,176
2002		16,490	16,333	157	278,451	85,452	193,000
2003		16,776	16,600	176	293,599	88,969	204,630
2004		17,062	16,868	194	312,096	92,539	219,557
2005		17,329	17,117	212	332,413	97,639	234,773
2006		17,625	17,395	230	348,719	100,683	248,036
2007		18,039	17,789	249	368,605	103,161	265,445
2008		18,419	18,152	268	385,070	105,895	279,175
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
2017	11	23,492	23,005	486	41,293	8,942	32,352
	12	23,077	22,588	489	45,781	10,664	35,116
2018	1	23,037	22,544	492	48,362	12,046	36,316
	2	23,075	22,580	495	46,750	12,612	34,138
	3	23,625	23,127	498	42,936	9,898	33,039
	4	23,207	22,705	502	42,033	9,037	32,996
	5	23,172	22,666	505	40,531	7,858	32,672
	6	23,210	22,702	508	41,046	7,968	33,078
	7	23,248	22,737	511	44,030	8,561	35,469
	8	23,298	22,783	515	49,532	11,565	37,967
	9	23,331	22,813	519	43,729	9,641	34,088
	10	23,350	22,828	522	39,978	7,662	32,315
	11	23,921	23,395	526	41,905	9,068	32,838
	12	23,502	22,972	529	45,318	10,060	35,258
2019 ^p	1	23,461	22,928	532	48,645	11,846	36,799
	2	23,508	22,974	534	44,354	11,544	32,810
	3	24,039	23,502	537	43,089	9,405	33,684
	4	23,631	23,091	540	42,441	9,222	33,219
	5	23,572	23,028	543	40,708	7,920	32,788
	6	23,605	23,059	545	40,620	7,888	32,732
	7	23,646	23,098	548	42,966	8,221	34,746
	8	23,676	23,124	552	47,559	10,438	37,121
	9	23,707	23,152	555	43,650	9,683	33,966
	10	23,737	23,179	558	40,623	7,970	32,653
	11	24,314	23,752	562	41,112	8,793	32,319
2018	1-11	23,921	23,395	526	480,831	105,915	374,916
2019 ^p	1-11	24,314	23,752	562	475,767	102,929	372,838

자료: 전력통계속보, 한국전력공사

Source: The monthly report on major electric power statistics, KEPCO

6.5 부문별 전력 소비

Electricity consumption by sector

구 분		합계 Total	산업 Industrial	수송 Transport	가정 Residential	상업 Commercial	기타 Other
		GWh					
1990		94,383	59,248	1,012	17,735	10,412	5,976
1995		163,270	96,436	1,607	28,303	27,524	9,401
1996		182,470	106,737	1,682	30,642	32,892	10,517
1997		200,784	116,383	1,761	32,515	38,301	11,823
1998		193,470	108,828	1,580	32,913	38,269	11,880
1999		214,215	120,859	1,730	34,581	44,412	12,633
2000		239,535	132,260	2,037	37,102	54,651	13,486
2001		257,731	135,791	2,257	39,211	65,496	14,976
2002		278,451	144,454	2,271	42,278	72,361	17,088
2003		293,599	150,387	2,331	44,572	78,511	17,798
2004		312,096	158,337	2,475	48,615	83,390	19,279
2005		332,413	166,813	2,601	50,873	91,375	20,751
2006		348,719	174,661	2,534	52,522	97,277	21,724
2007		368,605	186,252	2,433	54,174	102,957	22,789
2008		385,070	194,630	2,277	56,228	108,229	23,706
2009		394,475	197,743	2,174	57,595	112,099	24,863
2010		434,160	223,171	2,191	61,194	120,619	26,985
2011		455,070	242,204	2,246	61,564	121,668	27,387
2012		466,593	249,136	2,250	63,536	123,083	28,588
2013		474,848	256,841	2,168	63,970	122,973	28,896
2014		477,592	264,618	1,999	62,675	119,951	28,348
2015		483,655	265,633	2,217	63,794	122,482	29,529
2016		497,039	269,975	2,689	66,173	127,435	30,767
2017		507,746	276,670	2,864	66,517	130,377	31,317
2018		526,149	283,705	2,968	70,687	136,416	32,373
2017	11	41,293	23,353	237	5,302	9,938	2,463
	12	45,781	24,229	260	5,679	12,516	3,095
2018	1	48,362	24,725	269	6,136	14,036	3,197
	2	46,750	22,931	258	6,221	14,210	3,129
	3	42,936	23,282	230	5,326	11,368	2,731
	4	42,033	23,472	226	5,453	10,360	2,522
	5	40,531	23,316	225	5,109	9,512	2,369
	6	41,046	23,047	233	5,265	10,056	2,444
	7	44,030	24,056	263	5,872	11,149	2,689
	8	49,532	24,473	294	8,604	13,244	2,918
	9	43,729	23,309	254	6,396	11,121	2,650
	10	39,978	23,078	228	5,126	9,275	2,271
	11	41,905	23,615	233	5,443	10,136	2,478
	12	45,318	24,400	255	5,738	11,950	2,976
2019 ^p	1	48,645	25,106	266	6,246	13,871	3,155
	2	44,354	22,130	249	6,141	13,013	2,821
	3	43,089	23,788	229	5,351	11,013	2,708
	4	42,441	23,317	230	5,604	10,675	2,614
	5	40,708	23,193	229	5,213	9,742	2,330
	6	40,620	22,681	234	5,294	10,001	2,408
	7	42,966	23,514	258	5,610	10,911	2,674
	8	47,559	24,255	284	7,588	12,591	2,840
	9	43,650	22,699	256	6,649	11,334	2,712
	10	40,623	22,681	219	5,415	9,887	2,421
	11	41,112	22,771	218	5,520	10,104	2,499
2018	1-11	480,831	259,305	2,713	64,949	124,467	29,397
2019 ^p	1-11	475,767	256,137	2,674	64,631	123,143	29,182

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

Note: This includes the Kaesong Complex sales volume starting in May 2008.
Source: The monthly report on major electric power statistics, KEPCO

6.6 발전연료 소비

Fuel consumption of power generation

구 분		석탄 Coal			석유 Petroleum			LNG
		합계	무연탄	유연탄	합계	중유	경유	
		Total	Anthracite	Bituminous	Total	Heavy oil	Diesel	
		1,000 ton			1,000 kℓ			1,000 ton
1990		8,530	2,013	6,517	4,481	4,226	255	1,718
1995		18,633	2,428	16,203	9,687	8,753	933	3,562
1996		21,462	2,514	18,948	9,808	8,196	1,612	4,622
1997		25,012	2,305	22,707	9,880	8,309	1,571	5,377
1998		28,207	2,527	25,679	3,404	3,097	306	4,189
1999		30,813	2,597	28,216	3,348	3,023	325	4,767
2000		36,217	2,848	33,369	5,086	4,895	191	4,491
2001		40,795	2,875	37,919	5,599	5,497	107	4,780
2002		43,088	2,751	40,311	4,753	4,528	277	5,969
2003		44,449	2,880	41,578	5,051	4,416	638	5,995
2004		47,927	2,412	45,515	4,339	4,200	139	8,221
2005		50,296	2,359	47,937	4,167	4,051	117	8,537
2006		52,605	2,345	50,258	3,790	3,633	156	9,466
2007		58,341	2,392	55,950	4,018	3,899	120	10,829
2008		65,781	2,534	63,238	2,141	2,035	107	10,515
2009		73,749	2,690	71,092	3,053	2,944	112	8,598
2010		78,805	2,404	76,403	2,825	2,711	114	13,408
2011		81,513	1,659	79,854	2,171	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	5,286
2018		90,541	992	89,549	1,228	1,013	215	6,522
2017	11	7,255	54	7,201	60	50	9	507
	12	8,287	51	8,236	206	190	15	747
2018	1	8,978	36	8,942	248	229	19	759
	2	8,095	32	8,063	146	130	16	601
	3	7,601	31	7,570	159	146	13	615
	4	6,340	43	6,297	42	27	16	566
	5	6,454	55	6,399	54	36	18	490
	6	6,504	97	6,407	57	39	18	473
	7	8,455	147	8,308	128	104	24	535
	8	9,021	143	8,879	138	115	24	590
	9	7,591	129	7,462	41	26	15	356
	10	6,529	94	6,435	99	77	22	448
	11	6,925	102	6,823	43	27	16	475
	12	8,048	84	7,964	72	59	13	613
2019 ^p	1	8,375	119	8,256	97	83	15	615
	2	7,064	112	6,952	51	35	16	491
	3	6,225	102	6,123	167	137	30	452
	4	5,287	88	5,199	58	25	33	396
	5	5,414	75	5,339	51	15	36	364
	6	6,470	102	6,369	52	12	40	326
	7	8,374	127	8,247	62	23	39	444
	8	8,479	122	8,358	66	24	42	493
	9	7,865	79	7,787	28	5	24	353
	10	7,337	59	7,278	32	15	18	354
	11	6,802	82	6,720	30	12	18	481
2018	1-11	82,493	907	81,585	1,157	955	202	5,909
2019 ^p	1-11	77,693	1,065	76,628	695	385	310	4,769

주: 1. 시운전 연료사용량 포함

Note 1. Includes the fuel consumption for the test run.

2. 한전 및 자회사 연료사용량임.

2. Includes only KEPCO and its subsidiary companies.

자료: 전력통계속보, 한국전력공사

Source: The monthly report on major electric power statistics, KEPCO

6.7 지역난방

District heating

구 분		생산 Production			판매 Sales			
		합계	열병합	보일러 및 기타	합계	가정	상업	공공
		Total	CHP	Boiler & Others	Total	Residential	Commercial	Public
		1,000 toe						
1990		79	79	0	75	68	6	1
1995		689	514	175	641	610	22	10
1996		847	607	240	811	762	33	15
1997		941	691	250	909	850	42	17
1998		933	675	258	882	825	41	16
1999		1,082	772	310	1,033	959	56	18
2000		1,221	871	350	1,167	1,084	63	20
2001		1,287	842	446	1,218	1,111	80	27
2002		1,405	922	483	1,316	1,203	84	30
2003		1,628	1,096	532	1,523	1,252	105	166
2004		1,532	1,110	423	1,449	1,299	116	34
2005		1,889	1,209	681	1,652	1,466	143	42
2006		1,804	1,059	745	1,549	1,367	140	42
2007		1,848	1,208	640	1,576	1,409	127	41
2008		1,757	1,062	695	1,668	1,490	138	39
2009		1,821	1,276	545	1,709	1,530	133	46
2010		2,038	975	1,064	1,939	1,744	154	41
2011		2,055	1,279	776	1,976	1,774	158	44
2012		2,175	1,364	811	2,102	1,878	177	47
2013		2,212	1,458	755	2,070	1,841	182	46
2014		2,074	1,255	819	1,528	1,376	126	27
2015		2,028	1,339	689	1,967	1,758	173	36
2016		2,197	1,367	830	2,183	1,895	238	50
2017		2,446	1,494	953	2,441	2,105	280	55
2018		2,647	1,709	938	2,682	2,289	332	61
2017	11	273	174	98	277	248	23	5
	12	466	300	166	476	420	45	10
2018	1	513	338	175	535	470	54	11
	2	428	290	138	445	392	44	9
	3	283	193	90	294	263	25	6
	4	170	102	68	167	151	14	3
	5	109	65	44	109	87	19	2
	6	80	33	46	72	50	20	2
	7	82	40	42	70	38	28	4
	8	71	31	41	64	25	34	4
	9	67	25	42	61	43	16	2
	10	144	93	51	143	129	12	2
	11	252	188	64	257	231	21	5
	12	450	310	139	465	410	45	10
2019 ^p	1	469	322	147	489	430	48	10
	2	380	263	116	398	352	38	8
	3	287	206	80	296	265	25	6
	4	170	106	64	173	156	14	3
	5	106	63	43	102	86	14	2
	6	81	37	44	74	51	20	2
	7	84	41	43	77	41	31	4
	8	77	33	44	66	27	35	4
	9	68	25	43	65	46	17	2
	10	132	83	49	134	120	12	2
	11	235	168	67	257	230	22	5
2018	1-11	2,198	1,399	799	2,217	1,879	287	51
2019 ^p	1-11	2,087	1,347	740	2,131	1,805	276	49

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

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

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

Note 1. The data before 1998 is the sum of Korea District Heating Corporation, GS Power, and Seoul Energy.

2. The data since 1998 is the district heating data of the Survey for Group energy(KEA).

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

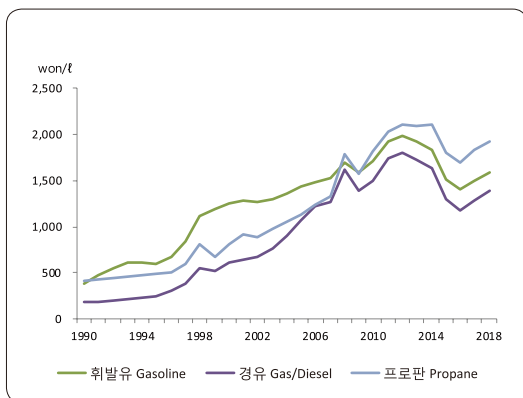
7. 에너지 가격

Energy prices

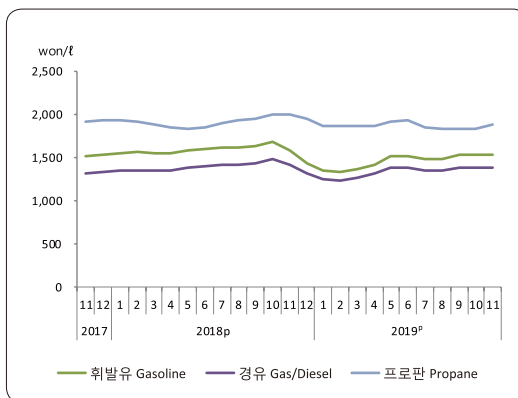


□ 석유 소비자 가격 Consumer prices by petroleum products

<1990~2018>

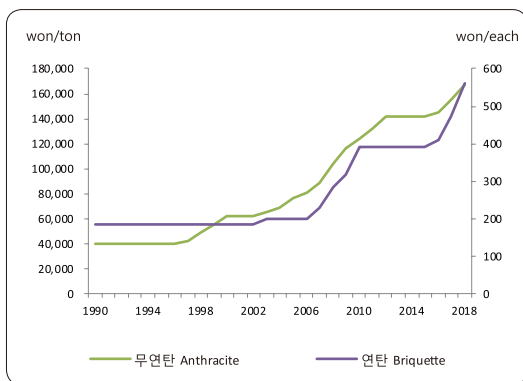


<월별 Monthly>



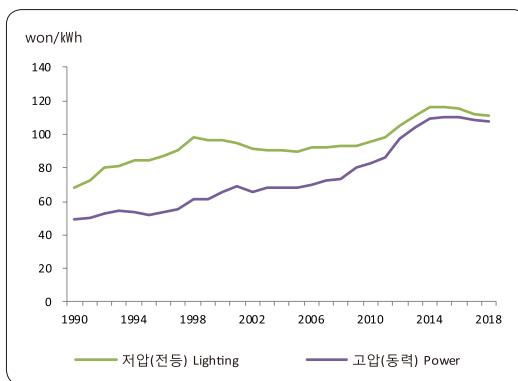
□ 석탄 가격 Coal prices

<1990~2018>



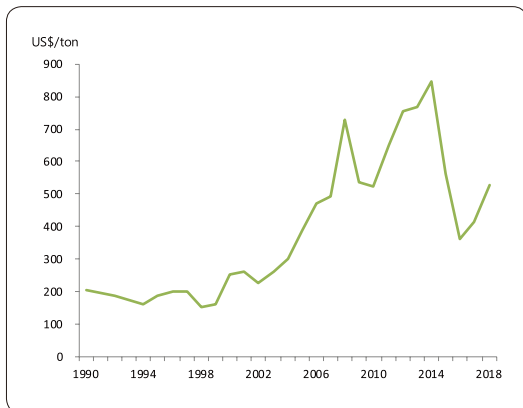
□ 전력 가격 Electricity prices

<1990~2018>



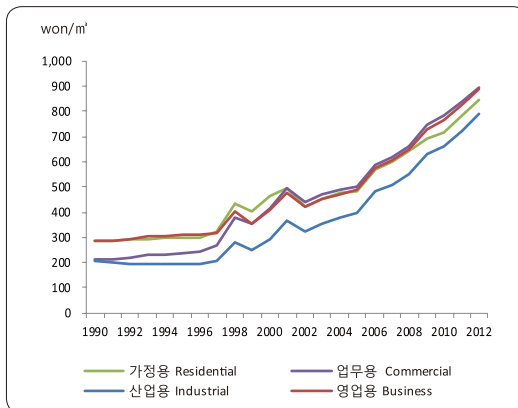
□ 천연가스 도입 단가 Natural gas import prices

<1990~2018>



□ 도시가스 가격 City gas prices

<1990~2012>



7.1.1 원유 수입 가격

Crude oil import prices

구 분		평균 Average	중동 Middle East	아시아 Asia	아프리카 Africa	아메리카 America	유럽 Europe
US\$/bbl							
1990		21.0	20.8	18.3	18.3	17.7	-
1995		17.3	17.2	18.0	18.0	16.6	-
1996		20.1	19.9	20.7	20.7	19.5	-
1997		20.3	20.3	20.8	20.8	19.3	18.8
1998		13.7	13.6	14.8	14.8	12.9	13.8
1999		16.9	17.1	16.1	16.1	15.1	16.2
2000		28.2	28.0	29.2	29.2	25.5	28.6
2001		24.9	24.8	25.1	25.1	22.6	25.6
2002		24.2	24.2	24.2	24.2	22.2	25.7
2003		28.7	28.4	30.4	30.4	27.4	33.7
2004		36.2	35.5	37.4	37.4	32.9	-
2005		50.5	50.1	48.1	48.1	42.6	58.2
2006		62.8	62.5	65.0	65.0	54.9	-
2007		69.4	68.9	66.9	66.9	52.6	-
2008		98.3	98.2	98.2	98.2	-	-
2009		60.8	61.0	61.8	61.8	51.0	-
2010		78.7	78.6	73.9	73.9	76.2	-
2011		108.0	107.4	112.4	112.4	98.7	115.3
2012		112.8	112.3	119.7	119.7	98.9	117.1
2013		108.3	107.9	108.2	108.2	110.8	112.4
2014		101.2	101.0	102.0	101.8	94.3	107.4
2015		53.3	53.1	54.5	53.7	52.4	56.4
2016		41.1	40.8	44.5	44.5	37.3	41.4
2017		53.4	53.1	55.7	57.1	48.5	56.7
2018		71.5	71.0	73.8	74.1	70.3	75.0
2017	11	57.9	57.7	61.5	64.1	51.9	59.6
	12	62.1	61.9	65.6	66.5	54.1	64.4
2018	1	64.9	64.6	67.9	67.6	60.6	66.4
	2	66.9	66.2	70.6	72.0	62.2	71.0
	3	64.9	64.4	67.5	73.4	61.8	69.3
	4	66.2	66.1	67.8	68.4	62.2	-
	5	71.2	70.7	76.1	76.1	64.5	74.7
	6	74.3	74.4	75.9	78.0	68.3	77.3
	7	75.0	74.8	77.6	74.9	72.2	80.2
	8	75.2	75.0	75.3	75.8	74.8	76.9
	9	76.5	76.4	77.8	76.4	75.3	82.1
	10	79.2	79.5	81.2	78.4	75.6	77.4
	11	76.2	75.0	78.2	80.3	77.4	83.8
	12	66.6	65.2	67.0	69.8	71.3	69.8
2019 ^p	1	61.8	60.9	63.3	60.7	65.7	-
	2	63.0	62.9	65.1	64.3	62.1	-
	3	65.3	66.2	65.6	71.3	60.0	-
	4	68.9	70.2	72.2	72.3	61.5	-
	5	71.0	71.6	70.8	70.5	68.5	72.8
	6	68.4	68.0	69.4	70.4	69.3	-
	7	65.8	65.6	65.3	68.9	66.4	-
	8	64.6	64.6	64.3	66.2	64.2	68.4
	9	63.1	63.0	62.2	63.3	63.9	-
	10	64.1	64.9	63.6	61.1	62.3	-
	11	64.1	64.6	64.8	64.4	61.8	-
2018	1-11	71.9	71.5	74.4	74.3	70.1	75.5
2019 ^p	1-11	65.4	65.7	65.6	66.8	64.1	69.9

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

2. 통관기준이며, 수입액은 CIF 가격임.

자료: 한국석유공사-PEDSIS

Notes 1. Import prices are from Korea National Oil Corporation. They are
different from the statistics of Korea International Trade Association.

2. Based on customs clearance and CIF.

Source: Korea National Oil Corporation-PEDSIS

7.1.2 주요 석유제품 수입 가격

Import prices by petroleum products

구 분		휘발유 Gasoline	경유 Gas/Diesel oil	등유 Kerosene	중질중유 Bunker-C	액화석유가스 LPG	납사 Naphtha
US\$/bbl							
1990		-	-	-	-	-	-
1995		-	23.2	25.0	16.6	16.9	18.9
1996		-	28.6	31.8	19.0	18.4	21.8
1997		-	26.1	29.7	19.6	21.9	23.8
1998		19.5	16.6	21.7	14.3	14.6	17.0
1999		23.6	23.8	25.2	16.1	18.0	19.6
2000		35.5	36.4	37.2	27.2	26.3	30.6
2001		29.9	30.7	31.4	24.8	25.4	27.2
2002		30.4	29.3	29.8	24.2	22.1	25.3
2003		34.0	34.0	37.5	30.1	26.3	31.3
2004		46.5	44.4	45.7	33.2	31.3	42.3
2005		51.4	64.5	64.6	44.3	39.0	52.9
2006		-	84.2	76.0	53.9	47.1	64.0
2007		-	78.5	81.9	54.6	53.0	74.0
2008		-	125.8	106.3	89.6	75.0	100.1
2009		-	61.8	71.3	53.0	46.0	58.8
2010		-	93.5	102.5	74.1	61.9	80.4
2011		-	130.4	129.6	102.7	76.6	104.2
2012		119.7	128.2	128.0	109.2	79.6	105.7
2013		124.7	127.3	126.7	101.3	77.3	103.0
2014		-	122.6	125.7	95.5	76.4	101.8
2015		85.9	75.4	124.9	48.0	41.9	55.8
2016		64.2	55.4	47.7	45.0	30.9	44.1
2017		66.4	68.8	62.8	57.9	41.1	54.2
2018		92.4	86.6	62.5	62.1	48.0	70.6
2017	11	-	72.9	-	59.8	47.3	59.8
	12	83.3	77.5	-	61.4	46.9	65.8
2018	1	-	79.5	-	62.3	50.5	67.3
	2	-	81.7	-	63.1	47.0	67.4
	3	-	85.1	-	63.6	43.0	63.7
	4	91.3	81.0	-	63.4	42.7	64.9
	5	-	77.7	-	70.3	44.2	69.1
	6	-	77.8	-	73.3	48.7	75.2
	7	-	92.0	-	73.9	50.9	73.4
	8	93.3	92.2	62.5	77.6	50.6	73.8
	9	-	94.2	-	74.6	51.0	74.1
	10	-	92.7	-	80.8	54.2	77.2
	11	-	96.9	-	78.7	50.5	77.9
	12	-	85.8	-	70.6	43.1	63.2
2019 ^p	1	-	74.7	83.5	60.9	38.7	55.2
	2	-	74.7	-	67.2	37.5	54.0
	3	-	82.3	-	72.7	39.9	58.2
	4	98.8	82.4	-	71.0	42.1	62.3
	5	-	87.1	-	69.8	43.3	65.1
	6	537.2	86.5	-	64.5	38.4	62.7
	7	-	77.8	-	69.4	35.0	55.7
	8	-	77.6	82.1	66.9	34.8	57.3
	9	-	-	-	64.8	33.2	53.0
	10	-	78.9	-	74.1	33.9	55.9
	11	-	78.7	-	52.7	35.8	59.5
2018	1-11	92.4	86.1	62.5	69.8	48.3	70.7
2019 ^p	1-11	99.3	80.1	82.9	67.3	37.4	57.9

주: 통관기준이며, 수입액은 CIF 가격임.

자료: 한국석유공사-PEDSIS

Note: Based on customs clearance. The import value is the CIF price.

Source: Korea National Oil Corporation-PEDSIS

7.1.3 주요 석유제품 수출 가격

Export prices by petroleum products

구 분		휘발유 Gasoline	경유 Gas/Diesel oil	등유 Kerosene	중질중유 Bunker-C	액화석유가스 LPG	납사 Naphtha
US\$/bbl							
1990		-	-	-	-	-	-
1995		27.7	21.8	23.7	14.5	18.4	18.4
1996		23.7	27.7	30.6	16.6	20.3	21.2
1997		25.0	24.5	25.3	15.8	21.0	23.8
1998		18.1	15.5	17.4	11.0	15.2	16.0
1999		22.9	19.2	23.7	15.6	17.8	20.2
2000		32.4	33.1	34.7	24.2	26.5	29.9
2001		28.5	27.5	30.8	20.9	25.1	26.1
2002		27.8	27.5	29.9	23.3	22.4	25.9
2003		35.3	32.4	36.3	27.2	28.1	31.5
2004		47.5	47.2	46.6	29.8	29.3	43.3
2005		62.1	64.8	60.9	42.1	38.8	53.8
2006		74.2	77.8	81.4	50.1	48.3	63.5
2007		86.4	84.9	97.7	61.8	49.4	77.4
2008		93.7	121.7	109.9	79.2	70.4	90.8
2009		70.5	69.3	72.0	59.3	48.7	61.6
2010		88.4	89.9	92.9	73.9	59.9	80.3
2011		118.2	125.5	130.4	102.4	72.5	103.7
2012		121.0	126.7	130.0	105.9	83.1	102.6
2013		117.5	122.9	132.7	102.6	77.7	102.7
2014		108.8	112.8	107.6	96.9	78.1	95.8
2015		66.8	63.4	67.3	50.0	44.7	54.2
2016		53.9	50.8	53.9	42.8	34.1	43.8
2017		67.3	65.4	70.9	56.2	43.7	54.2
2018		79.4	84.6	84.1	72.3	50.5	68.5
2017	11	74.3	72.5	75.6	56.1	49.3	63.0
	12	74.8	75.0	76.5	60.8	51.0	65.7
2018	1	78.2	80.4	82.7	67.1	52.0	67.8
	2	76.9	77.4	82.3	62.0	47.7	64.4
	3	75.8	77.5	81.7	63.1	44.3	62.3
	4	79.5	82.7	86.5	68.4	43.7	67.9
	5	85.5	89.1	90.5	80.8	47.5	72.7
	6	83.3	87.0	87.1	86.4	52.0	71.7
	7	82.4	86.3	88.4	77.9	51.2	72.8
	8	83.5	87.4	87.5	77.4	51.7	71.8
	9	87.6	92.7	92.4	82.0	55.4	74.1
	10	87.1	96.3	96.7	86.8	57.3	75.7
	11	70.7	83.2	84.5	72.9	49.9	64.2
	12	62.1	71.7	76.8	62.5	46.3	55.4
2019 ^p	1	60.7	71.0	72.8	56.7	41.6	53.6
	2	65.2	76.5	78.1	62.5	41.2	56.8
	3	72.0	79.5	77.9	70.9	43.5	60.9
	4	78.9	82.0	83.1	70.3	46.4	62.5
	5	75.4	82.5	82.9	68.6	46.4	58.2
	6	67.5	76.2	76.1	73.4	40.0	52.8
	7	72.7	77.8	79.1	78.1	38.1	55.2
	8	69.6	76.4	75.9	63.7	35.3	53.0
	9	71.5	78.2	77.8	71.0	33.6	54.7
	10	71.7	77.9	76.6	61.0	38.5	58.8
	11	73.8	77.0	76.4	54.2	40.0	61.8
2018	1-11	80.9	86.0	85.7	73.2	51.1	69.8
2019 ^p	1-11	70.4	77.5	76.3	65.2	40.0	57.2

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

Note: Based on customs clearance. The export value is the FOB price.
Source: Korea National Oil Corporation-PEDSIS

7.1.4 정유사 판매 가격

Refiner prices

구 분		휘발유 Gasoline	경유 Gas/Diesel oil		등유 ¹ Kerosene ¹	중질중유 Bunker-C	LPG	
			선박용 MGO	자동차용 Automobile			부탄 Butane	프로판 Propane
			won/ℓ				won/kg	
1990		330.8	154.5	157.7	164.7	86.2	231.2	231.7
1995		537.1	200.0	207.9	227.2	119.5	239.3	239.9
1996		612.3	258.1	264.2	276.2	145.2	255.2	255.9
1997		769.2	319.9	329.9	325.5	188.4	-	-
1998		1,042.9	484.5	484.5	456.1	253.7	-	-
1999		1,112.4	457.6	470.1	414.6	225.7	-	-
2000		1,175.9	553.7	567.4	485.9	288.7	-	-
2001		1,214.5	592.0	607.6	505.3	304.0	673.2	612.6
2002		1,203.9	640.8	651.1	492.2	320.5	692.3	511.1
2003		1,231.6	748.3	748.9	571.8	339.5	870.3	568.0
2004		1,293.0	876.3	878.7	692.9	365.4	1,042.8	617.6
2005		1,359.4	1,045.7	1,045.6	806.8	420.2	1,121.4	671.8
2006		1,406.9	1,175.7	1,185.9	857.6	489.4	1,156.0	745.0
2007		1,433.6	1,156.3	1,199.8	837.9	491.3	-	-
2008		1,554.4	1,426.7	1,468.6	929.5	698.0	1,584.9	1,214.4
2009		1,491.8	1,216.6	1,267.4	798.0	638.7	1,229.9	850.1
2010		1,605.9	1,333.1	1,393.1	908.1	710.5	1,451.1	1,056.3
2011		1,809.8	1,572.9	1,630.6	1,144.2	917.8	1,656.6	1,230.1
2012		1,860.9	1,629.3	1,682.2	1,185.5	1,053.5	1,690.5	1,261.7
2013		1,796.6	1,570.7	1,609.2	1,126.9	918.7	1,636.3	1,216.7
2014		1,684.6	1,473.4	1,485.0	963.6	853.4	1,597.7	1,154.8
2015		1,389.4	1,139.8	1,164.5	630.9	541.9	1,169.4	727.1
2016		1,296.2	1,027.8	1,068.7	542.4	442.8	1,030.6	584.4
2017		1,380.0	1,136.4	1,161.4	650.0	564.7	1,179.5	733.7
2018		1,455.6	1,260.7	1,277.1	765.4	658.9	1,237.3	812.5
2017	11	1,429.9	1,166.8	1,210.8	703.5	594.3	1,277.0	834.8
	12	1,428.0	1,186.9	1,216.9	702.0	576.5	1,265.2	830.8
2018	1	1,445.0	1,189.5	1,247.6	730.6	575.3	1,266.9	839.2
	2	1,429.0	1,218.8	1,237.9	735.8	603.6	1,247.5	830.1
	3	1,425.2	1,211.5	1,227.6	721.4	561.6	1,214.0	779.9
	4	1,451.9	1,200.6	1,260.0	752.3	620.7	1,171.4	723.5
	5	1,504.6	1,240.6	1,309.3	796.3	660.9	1,140.9	726.3
	6	1,494.0	1,287.9	1,298.1	775.8	697.1	1,191.3	746.3
	7	1,514.2	1,283.3	1,318.8	801.1	709.3	1,219.2	779.9
	8	1,527.8	1,295.1	1,327.2	803.7	719.2	1,283.4	822.9
	9	1,560.8	1,311.5	1,368.9	844.3	719.7	1,291.9	838.2
	10	1,566.8	1,347.2	1,397.8	878.2	762.5	1,332.5	911.0
	11	1,338.2	1,308.3	1,231.5	796.0	727.2	1,310.0	916.9
	12	1,217.1	1,206.5	1,116.8	710.6	710.1	1,207.9	832.1
2019 ^o	1	1,213.6	1,093.5	1,113.2	701.9	638.3	1,084.4	730.9
	2	1,235.5	1,093.8	1,148.2	730.3	638.3	1,117.2	734.1
	3	1,301.7	1,141.8	1,187.0	755.4	671.5	1,107.2	736.1
	4	1,376.9	1,173.1	1,217.1	786.9	708.6	1,116.1	736.3
	5	1,433.9	1,233.5	1,265.4	794.0	713.8	1,196.3	790.3
	6	1,375.8	1,259.6	1,219.1	742.2	727.6	1,170.8	785.8
	7	1,406.9	1,203.7	1,241.8	763.7	732.4	1,104.5	690.0
	8	1,390.3	1,222.5	1,234.4	758.5	738.7	1,090.1	677.9
	9	1,456.4	1,256.7	1,289.4	783.9	642.7	1,090.1	657.7
	10	1,441.2	1,267.5	1,271.1	764.7	710.2	1,087.3	657.8
	11	1,459.4	1,257.3	1,268.6	755.4	650.5	1,138.4	704.1
2018	1-11	1,478.0	1,263.1	1,293.2	785.0	668.8	1,242.6	810.4
2019 ^o	1-11	1,371.9	1,200.3	1,223.2	757.9	688.4	1,118.4	718.3

1. 실내등유 기준

주: 세후 가격

자료: 한국석유공사-PETRONET

1. Excludes heating oil.

Note: All the prices include taxes.

Source: Korea National Oil Corporation-PETRONET

7.1.5 소비자 판매 가격

Consumer prices

구 분		휘발유 ¹	경유 ¹	등유 Kerosene		중질중유 ²	프로판 ³	부탄 Butane	
				실내등유 ¹	보일러등유 ¹			일반용 ³	수송용 ¹
		Gasoline ¹	Gas/Diesel oil ¹	Kerosen ¹	Heating oil ¹	Bunker-C ²	Propane ³	Residential and Commercial ³	Transport ¹
		won/ℓ				won/kg		won/ℓ	
1990		383.5	182.0	191.3	-	95.3	415.0	-	506.8
1995		598.0	239.4	261.6	-	129.5	489.7	-	-
1996		675.8	300.8	314.7	-	156.7	510.0	-	-
1997		838.7	376.2	373.5	-	195.9	599.0	-	-
1998		1,122.6	553.5	524.2	415.6	292.1	815.0	-	-
1999		1,191.9	521.8	491.2	445.2	242.3	678.3	-	-
2000		1,248.4	612.8	559.6	544.9	304.1	809.3	-	-
2001		1,280.0	644.6	580.2	574.0	320.5	919.0	1,138.9	440.0
2002		1,269.1	677.6	554.4	553.5	322.8	887.3	1,109.2	457.7
2003		1,294.8	772.0	638.8	640.0	339.2	980.0	1,185.5	567.4
2004		1,364.2	906.8	751.5	757.9	367.1	1,050.0	1,236.0	673.8
2005		1,430.6	1,076.9	869.7	873.9	420.1	1,129.2	1,295.3	722.3
2006		1,488.9	1,220.3	930.4	933.4	483.0	1,245.4	1,390.4	749.1
2007		1,524.8	1,270.3	931.3	938.1	526.5	1,333.0	1,466.5	774.5
2008		1,694.9	1,614.7	1,235.8	1,236.0	757.1	1,785.8	1,891.5	1,007.2
2009		1,582.5	1,383.6	966.8	965.1	637.3	1,578.3	1,880.8	822.6
2010		1,709.4	1,501.5	1,071.2	1,066.3	760.8	1,812.4	2,069.3	952.4
2011		1,928.8	1,745.2	1,326.6	1,296.4	975.5	2,033.1	2,277.2	1,076.6
2012		1,985.8	1,806.4	1,393.7	-	1,083.5	2,106.0	2,352.1	1,102.1
2013		1,924.5	1,729.7	1,365.1	-	954.5	2,085.9	2,338.4	1,071.0
2014		1,827.6	1,637.0	1,300.2	-	900.0	2,114.6	2,370.3	1,052.1
2015		1,509.9	1,299.3	948.5	-	612.1	1,801.3	2,034.1	806.4
2016		1,402.5	1,182.4	784.4	-	520.6	1,690.0	1,914.7	734.1
2017		1,491.5	1,282.7	851.8	-	619.5	1,833.7	2,069.8	826.4
2018		1,581.4	1,391.9	943.0	-	734.8	1,920.5	2,174.0	874.6
2017	11	1,521.1	1,313.0	863.6	-	624.3	1,926.7	2,182.4	884.6
	12	1,540.3	1,332.4	884.4	-	652.3	1,929.8	2,192.7	885.1
2018	1	1,551.8	1,344.9	896.5	-	621.7	1,929.2	2,198.8	885.3
	2	1,564.6	1,360.4	909.5	-	638.7	1,926.3	2,195.9	886.0
	3	1,557.9	1,354.6	908.9	-	656.5	1,886.8	2,143.2	857.2
	4	1,551.3	1,349.1	907.0	-	674.6	1,845.1	2,089.2	828.7
	5	1,580.3	1,380.2	918.9	-	695.9	1,842.2	2,085.3	826.9
	6	1,609.1	1,410.0	938.8	-	759.5	1,860.0	2,094.9	843.7
	7	1,610.9	1,411.9	942.2	-	771.5	1,902.9	2,139.8	869.1
	8	1,618.3	1,419.1	946.6	-	788.6	1,942.9	2,182.9	894.8
	9	1,637.6	1,438.9	959.9	-	784.4	1,945.2	2,181.3	895.4
	10	1,681.1	1,485.0	997.3	-	790.3	2,002.4	2,259.0	934.2
	11	1,580.9	1,424.7	1,010.3	-	846.5	2,008.6	2,280.0	910.5
	12	1,433.1	1,324.1	980.2	-	789.3	1,954.7	2,237.2	863.4
2019 ^p	1	1,351.2	1,249.4	942.7	-	685.9	1,864.4	2,148.9	801.3
	2	1,343.8	1,242.9	936.4	-	665.8	1,863.3	2,143.1	798.7
	3	1,369.5	1,269.2	943.9	-	724.0	1,864.7	2,138.4	797.5
	4	1,424.4	1,316.4	957.8	-	771.1	1,863.6	2,138.1	796.5
	5	1,517.2	1,385.3	972.5	-	777.0	1,924.1	2,187.9	847.6
	6	1,517.5	1,379.8	973.4	-	799.2	1,929.0	2,186.5	851.6
	7	1,491.5	1,352.8	969.2	-	776.5	1,851.4	2,098.5	796.8
	8	1,493.7	1,351.9	968.0	-	827.4	1,841.1	2,088.5	785.4
	9	1,529.3	1,379.8	968.8	-	747.4	1,831.9	2,085.0	784.7
	10	1,540.5	1,387.7	973.1	-	791.4	1,833.6	2,093.6	783.7
	11	1,535.7	1,380.5	971.8	-	703.5	1,879.3	2,159.1	810.5
2018	1-11	1,594.9	1,398.1	939.6	-	729.8	1,917.4	2,168.2	875.6
2019 ^p	1-11	1,464.9	1,336.0	961.6	-	751.8	1,867.8	2,133.4	804.9

1. 주유소/충전소 판매 가격

2. 대리점 판매 가격

3. 판매소 판매 가격

주: 부가세 포함 가격

자료: 한국석유공사-PETRONET

1. Gas station sales prices

2. Agent sales price

3. Sales prices at general-purpose propane and butane stores.

Note: All the prices include VAT.

Source: Korea National Oil Corporation-PETRONET

7.2 석탄 및 전력 가격

Coal and electricity prices

구 분	석탄 Coal		전력 ³ Electricity ³		
	무연탄 ¹ Anthracite ¹	연탄 ² Briquette ²	저압(전등) Lighting	고압(동력) Power	평균 Average
	won/ton	won/each	won/kWh		
1990	40,740	185	68.1	49.5	52.9
1995	40,740	185	84.8	51.7	61.3
1996	40,740	185	87.0	53.4	63.0
1997	42,849	185	90.2	55.3	65.3
1998	48,827	185	98.2	61.7	72.1
1999	55,455	185	96.7	61.7	71.6
2000	62,210	185	96.5	65.7	74.7
2001	62,210	185	94.8	69.3	77.1
2002	62,474	185	91.6	66.0	73.9
2003	65,598	199	90.5	67.8	74.7
2004	69,025	202	90.3	68.0	74.6
2005	76,197	202	89.6	68.2	74.5
2006	81,110	202	92.0	70.1	76.4
2007	89,220	230	92.5	72.2	77.9
2008	103,841	283	93.0	73.4	78.8
2009	116,809	319	93.5	79.9	83.6
2010	123,680	391	96.1	82.6	86.1
2011	131,456	391	98.5	86.3	89.3
2012	142,230	391	105.1	97.0	98.8
2013	142,230	391	111.1	104.6	106.0
2014	142,230	391	116.1	109.7	111.1
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	108.8
2017	11	153,670	104.8	115.3	113.0
	12	166,030	111.8	114.7	114.0
2018	1	166,030	111.2	115.3	114.2
	2	166,030	110.7	115.1	113.9
	3	166,030	105.9	98.7	100.4
	4	166,030	101.5	95.4	96.7
	5	166,030	105.2	94.7	96.7
	6	166,030	113.4	113.3	113.3
	7	166,030	126.4	119.6	120.9
	8	166,030	126.1	119.1	120.7
	9	166,030	109.3	97.6	100.2
	10	166,030	105.8	94.8	96.9
	11	166,030	104.8	114.3	112.2
	12	179,380	113.3	114.0	113.8
2019 ^p	1	179,380	111.8	114.5	113.9
	2	179,380	112.1	114.7	114.0
	3	179,380	107.4	96.9	99.2
	4	179,380	101.4	95.8	97.0
	5	179,380	105.2	95.3	97.3
	6	179,380	114.0	113.7	113.8
	7	179,380	124.1	119.1	120.1
	8	179,380	122.2	117.9	118.8
	9	179,380	114.7	99.1	102.6
	10	179,380	105.3	95.0	97.0
	11	179,380	106.1	114.5	112.7

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 top price of Grade 5(4,400~4,599kcal/kg) of domestic coal.
2. Store prices include 12.75 won (including loading and unloading costs) per unit of transport expenses from the briquette plant to the store as well as 5 won per unit of the store commission.
3. The lighting and power of households and sales volume after January 2004 were changed to low tension and high tension.

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

7.3 LNG 수입가격 및 도시가스 가격

LNG import prices and city gas prices

구 분		천연가스 ¹ LNG ¹		도시가스 ² City Gas ²			
		도입금액	단가	가정용 ³	업무용 ⁴	산업용	영업용 ⁵
		Import value	Unit price	Residential ³	Commercial ⁴	Industrial	Business ⁵
		million US\$	US\$/ton	won/m ³ , won/MJ			
1990		459.5	205.4	284.9	214.5	206.8	284.9
1995		1,275.3	188.8	300.6	237.3	196.7	309.1
1996		1,878.4	202.9	301.9	242.4	196.7	309.1
1997		2,295.9	200.1	325.7	266.2	206.6	319.0
1998		1,549.3	152.1	432.4	377.9	283.5	404.3
1999		1,972.6	160.6	404.1	356.7	248.2	352.5
2000		3,882.3	254.8	464.0	416.6	294.5	408.3
2001		3,989.8	260.5	498.0	495.5	369.4	479.0
2002		4,120.2	229.0	422.5	439.5	323.0	421.6
2003		5,081.9	263.2	451.9	468.9	357.1	449.8
2004		6,551.6	300.8	474.0	491.0	379.9	472.2
2005		8,646.5	387.4	485.6	502.7	396.2	488.7
2006		11,924.9	472.2	568.8	585.8	485.6	576.8
2007		12,653.3	494.9	599.0	616.0	509.4	608.5
2008		19,806.1	726.6	643.3	662.1	549.7	650.1
2009		13,875.0	537.3	690.3	744.5	629.1	731.1
2010		17,006.0	521.6	716.5	785.1	661.8	768.2
2011		23,859.3	650.4	783.7	837.6	724.2	827.8
2012		27,364.5	756.3	847.8	891.4	792.6	889.5
2013		30,645.1	768.5	20.8	21.7	19.5	21.7
2014		31,402.5	846.3	22.2	22.9	20.7	23.0
2015		18,779.1	562.8	18.6	19.0	16.4	18.6
2016		12,170.0	363.8	15.1	15.6	12.6	14.8
2017		15,615.7	416.0	15.7	16.1	13.3	15.4
2018		23,188.9	526.8	14.8	15.1	12.9	14.7
2017	11	1,328.5	400.5	14.8	15.1	12.3	14.5
	12	1,788.6	429.9	14.8	15.1	12.9	14.7
2018	1	1,869.6	453.1	14.8	15.1	12.9	14.7
	2	2,352.7	517.2	14.8	15.1	12.9	14.7
	3	2,094.0	488.5	14.8	15.1	12.9	14.7
	4	1,553.6	484.4	14.8	15.1	12.3	14.5
	5	1,414.6	510.0	14.8	15.1	12.7	14.5
	6	1,906.8	509.7	14.8	15.1	12.6	14.4
	7	1,423.4	519.6	15.3	15.7	13.2	15.0
	8	1,541.3	532.4	15.3	15.7	13.2	15.0
	9	1,864.7	561.8	15.3	15.7	13.2	15.0
	10	2,188.9	579.9	15.3	15.7	13.3	15.1
	11	2,278.2	584.3	15.3	15.7	13.3	15.1
	12	2,701.1	574.2	15.3	15.7	13.8	15.3
2019 ^p	1	2,239.8	587.0	15.3	15.7	13.8	15.3
	2	2,323.5	614.5	15.3	15.7	13.8	15.3
	3	1,559.9	563.3	15.3	15.7	13.8	15.3
	4	1,612.1	481.9	15.3	15.7	13.3	15.1
	5	1,427.0	481.5	15.3	15.7	13.2	15.0
	6	1,515.3	470.4	15.3	15.7	13.2	15.0
	7	1,474.1	487.8	15.9	16.2	13.9	15.7
	8	1,720.5	479.1	15.9	16.2	13.9	15.7
	9	1,266.2	510.0	15.9	16.2	13.9	15.7
	10	1,530.0	479.0	15.9	16.2	14.0	15.8
	11	1,722.6	453.3	15.9	16.2	14.0	15.8

1. CIF 기준

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

3. 취사용 가격

4. 업무난방용 가격

5. 직접적인 영리 목적의 영업활동(목욕탕 등 제외)

자료: 한국무역협회, 한국도시가스협회

1. Based on CIF.

2. Average price in the Seoul area (excluding VAT), Based on mega Joule from 2013

3. Prices for cooking purpose.

4. Prices for heating of the building.

5. Price for business(except public bathhouse)

Source: Korea International Trade Association, Korea City Gas Association

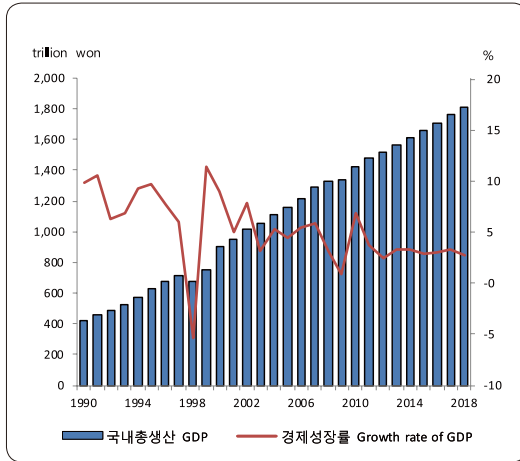
8. 주요 경제 · 사회 지표

Major economic and social indicators

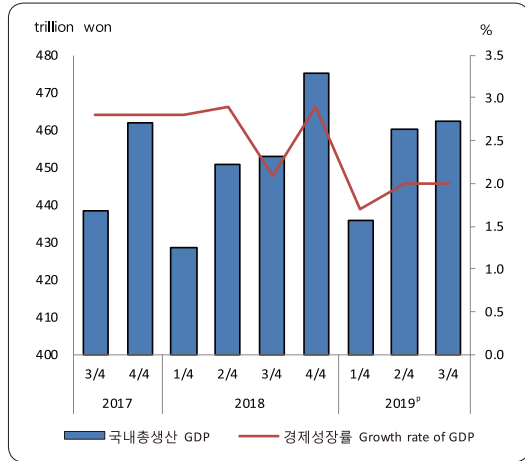


□ 국내총생산, 경제성장률 GDP and growth rate of GDP

<1990~2018>

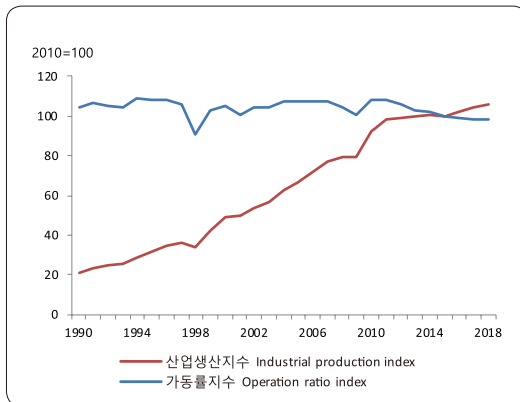


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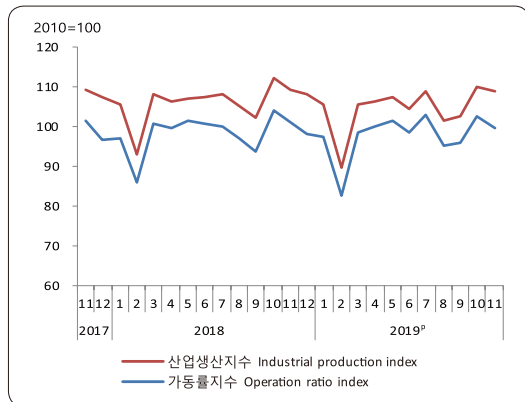


□ 산업생산지수, 가동률지수 Industrial production index

<1990~2018>

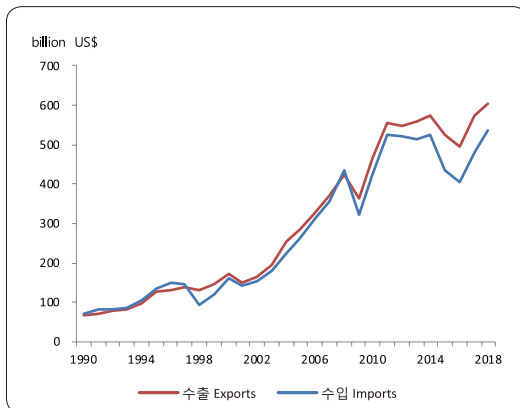


<월별 Monthly>

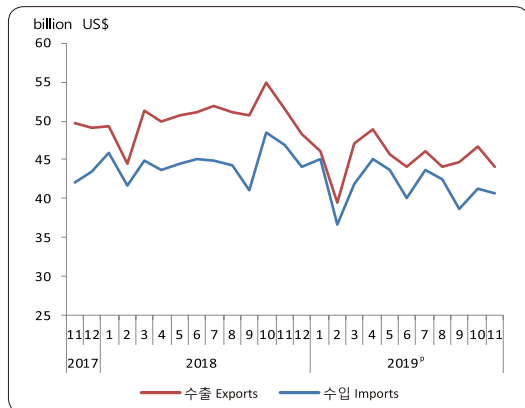


□ 수출입 Imports and export

<1990~2018>



<월별 Monthly>



8.1. 주요 경제지표

Major economic indicators

구 분		국내총생산 ¹ (시장가격)	경제성장률	민간소비 ¹	설비투자 ¹	건설투자 ¹	물가지수 Prices	
		GDP at market prices ¹	Growth rate of GDP	Private consumption ¹	Facilities investment ¹	Construction investment ¹	생산자	소비자
		billion won	%	billion won			2015=100	2015=100
1990		454,146	9.9	279,924	42,313	130,673	55.8	40.6
1995		683,940	9.6	422,297	76,132	193,490	65.2	54.8
1996		737,908	7.9	454,998	83,950	207,627	67.3	57.5
1997		783,441	6.2	474,207	77,213	212,866	69.9	60.1
1998		743,255	-5.1	417,671	47,397	184,666	78.4	64.6
1999		828,483	11.5	467,989	64,229	178,652	76.8	65.1
2000		903,551	9.1	511,607	86,585	178,617	78.4	66.6
2001		947,395	4.9	541,244	80,623	190,194	78.0	69.3
2002		1,020,582	7.7	589,833	87,293	202,418	77.8	71.2
2003		1,052,703	3.1	587,600	87,656	220,225	79.5	73.7
2004		1,107,416	5.2	589,947	89,928	223,708	84.3	76.3
2005		1,155,130	4.3	617,417	93,062	223,611	86.1	78.4
2006		1,215,940	5.3	647,804	101,442	225,219	86.9	80.2
2007		1,286,459	5.8	682,032	111,522	228,604	88.1	82.2
2008		1,325,219	3.0	693,103	111,276	222,419	95.6	86.1
2009		1,335,724	0.8	694,615	102,216	230,329	95.4	88.5
2010		1,426,618	6.8	725,119	125,912	221,918	99.1	91.1
2011		1,479,198	3.7	746,491	132,898	215,682	105.7	94.7
2012		1,514,737	2.4	758,839	134,263	208,120	106.4	96.8
2013		1,562,674	3.2	772,014	128,966	221,202	104.7	98.0
2014		1,612,718	3.2	787,410	135,481	224,276	104.2	99.3
2015		1,658,020	2.8	804,812	142,434	239,801	100.0	100.0
2016		1,706,880	2.9	825,676	146,179	263,725	98.2	101.0
2017		1,760,812	3.2	848,589	170,276	282,925	101.6	102.9
2018		1,807,736	2.7	872,304	166,242	270,859	103.5	104.5
2017	11	-	-	-	-	-	102.0	102.6
	12	461,830	2.8	218,212	43,983	75,639	102.1	103.0
2018	1	-	-	-	-	-	102.5	103.4
	2	-	-	-	-	-	103.0	104.2
	3	428,662	2.8	218,772	44,119	57,132	102.9	104.1
	4	-	-	-	-	-	103.0	104.3
	5	-	-	-	-	-	103.3	104.3
	6	450,843	2.9	212,188	43,203	74,412	103.4	104.1
	7	-	-	-	-	-	103.9	103.9
	8	-	-	-	-	-	104.3	104.9
	9	453,045	2.1	217,819	37,256	68,008	104.6	105.7
	10	-	-	-	-	-	104.3	105.5
	11	-	-	-	-	-	103.5	104.7
	12	475,186	2.9	223,526	41,664	71,308	103.0	104.4
2019 ^p	1	-	-	-	-	-	102.9	104.2
	2	-	-	-	-	-	103.0	104.7
	3	435,809	1.7	222,837	36,432	53,031	103.4	104.5
	4	-	-	-	-	-	103.7	104.9
	5	-	-	-	-	-	103.8	105.1
	6	460,059	2.0	216,534	40,162	71,783	103.5	104.9
	7	-	-	-	-	-	103.5	104.6
	8	-	-	-	-	-	103.7	104.8
	9	462,320	2.0	221,725	36,270	65,465	103.8	105.2
	10	-	-	-	-	-	103.6	105.5
	11	-	-	-	-	-	103.5	104.9

자료: 한국은행

Source: Bank of Korea.

8.2. 산업생산 지수

Industrial production index

구 분		총지수	광업 및 제조업	1차 철강	시멘트	기초화학물	수송장비	전기장비	서비스업
		All items	Mining and manufacturing	Basic iron and steel	Cement, lime and plaster and its products	Basic chemicals	Motor vehicles, trailers and semitrailer	Electrical equipment	Services
2015=100									
1990		21.1	21.2	33.6	61.6	14.5	16.9	36.6	0.0
1995		31.8	31.6	52.0	93.7	32.8	36.2	57.2	0.0
1996		34.6	34.3	55.2	100.3	37.6	40.8	60.5	0.0
1997		36.2	35.9	58.5	102.1	46.7	40.6	60.2	0.0
1998		33.9	33.5	52.9	74.7	49.0	26.8	45.3	0.0
1999		42.2	42.0	58.9	76.3	53.0	41.0	57.3	0.0
2000		49.4	49.2	63.9	82.9	56.0	46.8	68.3	59.6
2001		49.7	49.3	64.9	86.3	55.5	46.2	68.0	63.3
2002		53.7	53.2	67.4	94.8	58.9	50.2	76.6	69.3
2003		56.6	56.2	71.7	101.2	60.9	53.4	76.6	70.0
2004		62.5	62.2	74.5	94.1	65.7	59.7	81.2	70.2
2005		66.5	66.1	73.8	85.0	68.2	64.7	84.1	72.8
2006		72.1	71.8	76.8	88.6	71.0	69.9	84.3	76.5
2007		77.0	76.9	80.6	94.6	75.6	74.2	88.1	81.6
2008		79.6	79.4	82.3	91.0	75.1	71.8	93.6	84.5
2009		79.5	79.2	73.8	84.6	79.7	67.2	95.1	86.1
2010		92.5	92.4	90.2	79.5	86.6	82.8	104.6	89.4
2011		98.0	98.0	97.1	81.6	88.0	95.0	105.4	92.2
2012		99.4	99.3	98.1	80.7	91.6	94.8	103.3	93.7
2013		100.1	100.0	97.6	86.7	97.0	96.1	101.4	95.0
2014		100.3	100.2	102.0	83.7	97.8	98.7	103.4	97.2
2015		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2016		102.2	102.3	101.3	108.2	104.6	97.6	102.8	102.6
2017		104.7	104.6	102.9	110.0	110.4	95.0	105.5	104.5
2018		106.1	105.8	99.8	100.1	110.4	93.7	105.2	106.7
2017	11	109.3	109.4	101.5	119.2	108.6	103.6	117.7	106.2
	12	107.3	105.5	103.5	106.1	116.9	82.2	110.3	113.8
2018	1	105.7	103.6	105.6	79.1	116.5	88.9	100.8	103.0
	2	93.1	91.4	91.7	74.4	103.9	76.9	92.2	99.6
	3	108.1	107.7	101.2	108.1	111.7	98.2	106.2	107.7
	4	106.2	106.6	100.4	111.3	111.0	97.8	104.2	105.9
	5	107.1	107.7	104.0	114.6	114.7	97.7	104.4	106.9
	6	107.5	108.1	100.6	115.7	110.1	94.4	105.9	108.0
	7	108.2	107.9	102.1	102.7	113.8	88.0	103.5	106.3
	8	105.2	104.7	98.9	90.0	112.9	87.3	104.1	105.6
	9	102.1	102.7	93.3	92.3	110.6	84.8	100.0	105.8
	10	112.3	113.0	101.4	111.2	107.5	104.6	111.9	108.1
	11	109.4	109.4	100.3	110.4	101.7	106.7	115.6	107.5
	12	108.1	106.7	97.5	91.2	110.4	98.9	113.1	115.4
2019 ^P	1	105.5	103.6	103.0	80.0	112.7	96.3	99.3	105.5
	2	89.6	87.9	87.8	66.0	100.9	77.1	86.1	99.4
	3	105.6	105.0	100.5	99.0	107.8	97.3	102.7	108.6
	4	106.4	106.5	99.3	105.8	101.9	101.1	105.0	107.6
	5	107.6	108.2	101.4	106.4	102.6	100.5	107.5	109.4
	6	104.6	105.1	98.1	100.3	99.2	92.9	104.4	108.1
	7	108.9	109.0	101.0	95.1	111.3	100.4	107.1	107.9
	8	101.7	101.2	94.2	89.8	110.7	76.4	96.5	108.1
	9	102.8	103.2	91.4	76.8	109.7	82.5	102.5	106.7
	10	109.9	110.7	97.4	99.9	104.2	98.3	109.8	109.0
	11	109.1	109.3	96.1	103.0	101.5	94.7	108.1	110.2

자료: 통계청

Source: Statistics Korea

8.3. 가동률 지수

Operation ratio index

구 분		총지수	1차 철강	시멘트	기초화학물	수송장비	전기장비
		All items	Basic iron and steel	Cement, lime and plaster and its products	Basic chemicals	Motor vehicles, trailers and semitrailer	Electrical equipment
		2015=100					
1990		104.7	119.8	153.4	92.6	83.0	93.0
1995		108.4	109.4	153.8	103.7	100.6	116.5
1996		108.1	113.1	143.2	106.0	103.5	114.2
1997		106.0	115.4	140.3	110.0	92.7	112.4
1998		91.1	92.6	100.1	103.2	61.8	89.9
1999		102.5	93.9	105.2	109.0	82.5	112.0
2000		104.9	99.4	116.0	110.2	79.7	103.3
2001		100.7	100.7	121.2	107.8	74.0	102.9
2002		104.7	101.1	133.1	110.9	78.0	108.6
2003		104.6	104.3	132.9	110.2	78.5	100.9
2004		107.6	106.0	118.2	110.0	82.1	101.7
2005		107.2	104.0	104.5	109.7	87.1	105.9
2006		107.4	103.6	106.4	110.5	90.4	106.4
2007		107.6	101.7	111.2	111.4	94.1	104.3
2008		104.2	102.3	104.9	102.9	87.8	102.1
2009		100.5	88.8	99.2	105.8	80.6	100.1
2010		108.2	99.8	91.9	109.8	95.2	109.4
2011		108.5	100.3	93.6	107.0	101.5	105.8
2012		105.5	100.1	93.5	106.1	98.0	102.9
2013		103.0	99.0	98.3	103.7	97.1	99.0
2014		102.0	102.4	92.3	101.8	98.5	99.0
2015		100.0	100.0	100.0	100.0	100.0	100.0
2016		98.9	100.7	106.9	103.3	93.8	101.8
2017		98.1	102.3	107.4	107.1	87.6	102.5
2018		98.4	98.8	108.9	104.9	90.2	100.3
2017	11	101.6	101.1	117.8	104.7	95.6	114.7
	12	96.8	102.5	104.9	112.0	75.6	104.8
2018	1	97.0	104.8	79.2	111.1	83.7	97.7
	2	85.8	90.6	74.5	99.0	72.2	88.6
	3	100.9	99.8	117.2	106.2	94.6	102.6
	4	99.6	99.2	121.7	105.6	95.2	99.5
	5	101.5	102.5	125.4	109.3	94.6	101.3
	6	100.8	99.5	127.3	105.8	91.2	101.5
	7	100.0	101.0	113.0	108.2	84.9	99.0
	8	97.2	97.7	99.5	106.6	84.9	98.7
	9	93.8	92.4	101.6	104.6	81.8	93.8
	10	104.3	100.6	122.7	101.6	100.9	105.7
	11	101.3	100.1	122.4	96.2	102.9	109.9
	12	98.3	97.2	102.7	104.5	95.4	105.5
2019 ^P	1	97.3	103.1	105.4	106.7	96.2	96.0
	2	82.6	87.8	73.7	95.5	76.5	84.2
	3	98.6	100.6	108.7	101.9	96.0	100.5
	4	100.2	99.6	115.9	96.4	101.0	101.7
	5	101.7	101.7	117.1	96.8	100.6	103.3
	6	98.6	98.3	110.6	93.6	92.9	100.9
	7	102.9	101.2	104.9	105.1	100.4	103.5
	8	95.1	94.2	99.1	104.6	76.9	93.5
	9	96.1	91.5	84.8	102.9	82.9	99.4
	10	102.8	97.5	110.5	97.5	98.4	106.3
	11	99.8	96.3	113.9	95.2	95.0	105.0

8.4. 투자활동지표

Investment activity indexes

구 분	설비부문 Facility			건설부문 Construction		
	설비투자 Facility investment	설비용기계 내수출하 ¹ Domestic shipment index of machinery and equipment ¹	국내수요기계 수주액 ¹ Value of domestic machinery orders received ¹	건설기성액 ² Value of construction completed ²	국내 건설수주액 ² Value of domestic construction order received ²	건축허가면적 Permitted floor area for building construction
	2015=100	2015=100	billion won			1,000 m ²
1990	-	37.6	-	-	20,964	-
1995	-	63.6	-	-	49,025	-
1996	57.3	71.4	-	-	59,535	-
1997	54.1	71.7	18,270	29,538	62,722	-
1998	33.8	44.9	11,508	46,887	36,027	-
1999	48.0	59.0	13,954	47,449	36,299	72,531
2000	62.3	81.2	16,583	45,990	41,778	81,055
2001	57.2	76.9	15,712	50,576	50,995	97,717
2002	62.1	84.9	18,909	56,216	67,834	138,734
2003	60.7	83.3	18,125	65,553	80,897	142,108
2004	62.9	81.5	19,430	72,838	77,774	117,461
2005	66.6	81.8	19,012	75,831	83,489	111,506
2006	75.1	90.7	22,042	77,839	91,001	133,270
2007	80.2	93.7	26,575	82,939	112,502	150,957
2008	78.4	95.2	23,679	87,032	103,907	120,658
2009	70.9	90.2	21,863	89,819	109,088	105,137
2010	89.2	108.3	23,369	92,276	89,814	125,447
2011	92.3	113.6	25,588	91,717	95,332	137,868
2012	89.7	108.3	22,593	88,713	89,395	137,142
2013	88.9	100.1	24,090	98,089	77,885	127,066
2014	93.6	99.8	27,960	98,491	90,606	141,347
2015	100.0	100.0	27,224	102,614	134,493	189,839
2016	101.9	101.4	28,141	119,971	145,386	178,955
2017	116.7	111.7	33,413	139,039	142,966	178,955
2018	112.6	107.1	34,144	136,988	139,768	160,964
2017 11	118.8	110.3	3,080.7	12,152.7	11,511.3	14,884.7
12	131.0	125.0	2,717.6	14,695.5	20,638.5	16,471.1
2018 1	117.6	105.9	2,891.6	10,669.0	12,154.4	12,875.9
2	110.1	94.8	2,441.8	9,717.7	9,121.8	12,874.1
3	128.3	117.9	3,461.1	11,771.5	11,444.3	14,284.5
4	119.2	111.3	3,138.8	11,569.3	9,143.8	14,377.1
5	118.5	114.7	2,927.1	11,452.7	13,700.6	13,110.5
6	116.1	117.2	3,028.5	12,860.3	11,106.6	14,450.6
7	110.9	108.6	2,795.7	11,025.5	10,573.1	16,458.2
8	103.6	99.4	2,594.5	10,958.0	9,208.0	11,335.2
9	99.1	97.7	2,533.0	10,918.3	10,549.3	10,943.6
10	108.2	101.8	2,689.1	10,995.2	10,039.0	12,073.4
11	106.4	103.4	2,498.9	11,286.0	11,443.3	14,096.3
12	113.2	112.1	3,144.0	13,764.0	21,284.1	14,085.1
2019 ^p 1	98.2	88.2	2,775.1	9,829.2	9,049.6	10,500.3
2	81.2	78.6	2,499.3	8,827.8	7,066.5	11,419.7
3	106.8	100.0	3,320.9	11,419.8	15,225.8	13,087.1
4	111.0	101.4	3,158.7	10,896.1	12,751.4	12,906.4
5	106.6	99.0	3,091.4	11,086.7	9,277.0	10,953.2
6	105.3	104.2	2,922.8	12,697.5	11,157.0	10,400.2
7	105.6	95.8	2,682.5	10,426.0	8,361.3	12,459.0
8	99.5	88.5	2,509.9	10,418.5	7,630.1	10,670.0
9	996.7	92.7	2,647.6	10,235.3	14,284.6	10,892.3
10	104.3	100.5	2,700.9	10,749.5	15,055.0	13,225.5
11	106.4	99.1	3,062.6	10,945.7	12,754.2	12,531.3

1. 선박 제외

1. Excluding vessels

2. 경상금액

2. Current Account

자료: 통계청

Source: Statistics Korea

8.5. 국제수지

Balance of payments

구 분		수출	수입	경상수지					자본수지
		Exports	Imports	Current account	상품수지	서비스수지	본원소득수지	이전소득수지	Capital account
					Goods	Services	Primary income	Secondary income	
million US\$									
1990		65,016	69,844	-2,804	-3,689	501	-548	932	-
1995		125,058	135,119	-10,230	-7,004	-1,395	-2,122	291	-
1996		129,715	150,339	-24,461	-17,347	-4,632	-2,215	-268	-
1997		136,164	144,616	-10,812	-6,745	-1,244	-3,167	345	-
1998		132,313	93,282	40,113	39,614	2,881	-5,201	2,819	442
1999		143,685	119,752	21,785	25,446	1,042	-5,537	833	56
2000		172,268	160,481	10,181	15,393	-846	-4,152	-214	38
2001		150,439	141,098	2,165	9,407	-2,266	-3,714	-1,261	-64
2002		162,471	152,126	4,066	14,414	-5,826	-2,407	-2,114	-9
2003		193,817	178,827	11,308	22,138	-4,845	-2,820	-3,165	-48
2004		253,845	224,463	29,290	39,173	-5,050	-1,794	-3,038	10
2005		284,419	261,238	12,209	32,493	-8,984	-8,041	-3,258	-1
2006		325,465	309,383	2,095	24,515	-13,040	-4,998	-4,382	-69
2007		371,489	356,846	10,473	32,436	-13,040	-4,537	-4,387	6
2008		422,007	435,275	1,753	11,746	-6,311	-2,416	-1,267	26
2009		363,534	323,085	33,088	48,056	-9,338	-3,436	-2,195	-70
2010		466,384	425,212	27,951	47,932	-13,973	-693	-5,317	-63
2011		555,214	524,413	16,638	28,014	-12,057	5,396	-4,716	-112
2012		547,870	519,584	48,791	48,589	-5,058	10,733	-5,474	-42
2013		559,632	515,586	77,259	80,259	-6,329	7,518	-4,189	-27
2014		572,665	525,515	83,030	86,145	-3,290	5,159	-4,985	-9
2015		526,757	436,499	105,119	120,275	-14,626	4,455	-4,985	-60
2016		495,426	406,193	97,924	116,462	-17,338	4,567	-5,767	-46
2017		573,694	478,478	75,231	113,593	-36,734	5,337	-6,965	-27
2018		604,860	535,202	77,467	110,087	-29,369	4,902	-8,153	317
2017	11	49,707	42,014	7,474	11,166	-3,304	273	-660	39
	12	49,040	43,529	4,487	7,916	-3,707	1,124	-845	-31
2018	1	49,221	45,805	2,557	7,338	-4,654	1,544	-1,670	-6
	2	44,524	41,722	3,227	4,793	-2,724	1,553	-396	-13
	3	51,310	44,898	5,210	9,217	-2,314	-1,008	-684	2
	4	49,850	43,694	1,490	9,402	-1,970	-5,269	-673	48
	5	50,688	44,459	8,792	10,550	-1,930	901	-728	12
	6	51,079	45,000	7,980	9,414	-2,231	1,361	-564	-7
	7	51,810	44,917	8,874	10,685	-2,837	1,693	-666	-7
	8	51,180	44,361	8,581	10,928	-2,128	444	-663	-4
	9	50,650	41,033	11,236	13,105	-2,479	1,047	-438	73
	10	54,860	48,481	9,474	10,522	-2,055	1,415	-408	82
	11	51,480	46,808	5,131	7,505	-2,194	342	-523	-10
	12	48,207	44,025	4,914	6,628	-1,853	880	-740	146
2019 ^p	1	46,176	45,110	3,296	5,753	-3,535	1,679	-601	-29
	2	39,483	36,617	3,850	5,424	-1,543	455	-486	-15
	3	47,004	41,986	5,040	8,339	-2,101	-615	-584	5
	4	48,806	45,028	-393	5,609	-1,270	-4,183	-549	-20
	5	45,705	43,632	5,176	5,503	-951	1,295	-672	37
	6	44,009	40,108	5,665	6,269	-2,139	2,068	-532	-2
	7	46,082	43,744	6,585	6,182	-1,548	2,468	-518	-4
	8	44,024	42,463	4,861	4,631	-1,558	2,022	-235	-1
	9	44,651	38,734	7,759	8,699	-2,262	1,539	-217	-5
	10	46,703	41,388	7,827	8,028	-1,719	1,827	-309	-15
	11	44,053	40,717	5,975	7,391	-1,894	967	-489	-5

자료: 한국은행

Source: Bank of Korea.

8.6. 자동차 등록대수

구 분		총대수	유종별 By fuel type							
			휘발유	경유	LPG	CNG	하이브리드 ¹	전기	기타 ²	수소
		Total	Gasoline	Diesel			Hybrid ¹	Electricity	Others ²	hydrogen
		1,000 unit	1,000 unit							1 unit
1999		11,164	-	-	-	-	-	-	-	-
2000		12,059	7,214	3,594	1,214	-	-	0	37	-
2001		12,914	7,417	4,030	1,428	-	-	0	39	-
2002		13,949	7,672	4,607	1,625	-	-	0	44	-
2003		14,587	7,760	5,055	1,723	1	-	0	46	-
2004		14,934	7,702	5,385	1,794	5	-	0	48	-
2005		15,397	7,800	5,650	1,890	9	-	0	48	-
2006		15,895	7,915	5,869	2,047	12	-	0	51	-
2007		16,428	8,085	6,087	2,187	15	-	0	53	-
2008		16,794	8,256	6,137	2,321	20	4	-	55	-
2009		17,325	8,556	6,285	2,391	25	5	-	63	-
2010		17,941	8,907	6,483	2,444	29	7	0	71	-
2011		18,437	9,170	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
2017	11	22,485	10,357	9,549	2,113	39	288	23	117	163
	12	22,528	10,370	9,576	2,105	39	296	25	118	170
2018	1	22,602	10,401	9,616	2,098	39	303	26	118	177
	2	22,639	10,421	9,631	2,093	39	309	27	118	187
	3	22,694	10,446	9,656	2,087	39	317	29	119	198
	4	22,759	10,473	9,691	2,082	39	323	31	120	240
	5	22,817	10,491	9,726	2,076	39	331	33	121	301
	6	22,882	10,510	9,765	2,071	39	338	37	122	358
	7	22,944	10,529	9,802	2,066	39	345	40	123	384
	8	22,990	10,545	9,829	2,060	39	351	43	123	422
	9	23,043	10,567	9,854	2,055	39	357	46	124	466
	10	23,091	10,589	9,874	2,049	39	366	50	125	592
	11	23,156	10,613	9,904	2,043	39	377	54	125	753
	12	23,203	10,629	9,930	2,035	39	387	56	126	893
2019 ^p	1	23,276	10,659	9,970	2,029	39	396	56	126	918
	2	23,298	10,673	9,976	2,024	39	402	57	126	978
	3	23,322	10,697	9,968	2,019	39	411	61	127	1,079
	4	23,349	10,724	9,956	2,017	39	420	65	128	1,442
	5	23,393	10,751	9,959	2,015	39	429	69	128	1,901
	6	23,444	10,776	9,975	2,013	39	438	73	129	2,353
	7	23,501	10,803	9,992	2,012	39	446	76	130	2,774
	8	23,542	10,829	10,002	2,008	38	452	79	131	2,955
	9	23,575	10,862	9,993	2,007	38	459	81	131	3,436
	10	23,594	10,892	9,970	2,007	38	467	83	132	3,951
	11	23,634	10,931	9,959	2,006	38	476	87	132	4,650

1. 하이브리드: 휘발유+전기

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

자료: 국토교통부 통계누리

Motor vehicle registration

용도별 By vehicle usage			차종별 By type of vehicle				구분	
관용 Government	자가용 Private	영업용 Commercial	승용 Passenger	승합 Buses	화물 Trucks	특수 Special		
1,000 unit			1,000 unit					
50	10,550	564	7,837	993	2,298	35	1999	
50	11,389	620	8,084	1,427	2,511	37	2000	
52	12,194	669	8,889	1,257	2,728	39	2001	
53	13,173	723	9,737	1,275	2,894	42	2002	
55	13,781	751	10,279	1,247	3,016	45	2003	
57	14,111	767	10,621	1,204	3,062	47	2004	
58	14,555	784	11,122	1,125	3,102	48	2005	
59	15,019	817	11,607	1,106	3,133	49	2006	
61	15,496	871	12,100	1,105	3,171	52	2007	
62	15,821	911	12,484	1,097	3,160	53	2008	
64	16,330	930	13,024	1,081	3,167	54	2009	
66	16,901	974	13,632	1,050	3,204	56	2010	
69	17,357	1,011	14,136	1,015	3,226	59	2011	
71	17,747	1,052	14,577	987	3,244	63	2012	
73	18,202	1,126	15,078	971	3,286	66	2013	
75	18,830	1,213	15,747	947	3,354	70	2014	
78	19,623	1,290	16,562	920	3,433	75	2015	
80	20,345	1,378	17,338	893	3,492	80	2016	
86	20,984	1,458	18,035	868	3,540	86	2017	
90	21,540	1,573	18,677	844	3,591	91	2018	
85	20,948	1,452	17,990	870	3,539	85	11	
86	20,984	1,458	18,035	868	3,540	86	12	
85	21,050	1,466	18,104	866	3,546	86	1	2018
86	21,080	1,473	18,141	863	3,548	87	2	
86	21,128	1,480	18,198	860	3,549	87	3	
86	21,184	1,488	18,260	858	3,553	87	4	
87	21,233	1,497	18,315	856	3,559	88	5	
88	21,287	1,507	18,374	854	3,565	88	6	
88	21,335	1,521	18,430	853	3,572	89	7	
88	21,364	1,538	18,476	851	3,574	89	8	
88	21,407	1,547	18,525	850	3,578	90	9	
89	21,449	1,553	18,573	847	3,581	90	10	
90	21,504	1,562	18,633	846	3,587	90	11	
90	21,540	1,573	18,677	844	3,591	91	12	
90	21,605	1,581	18,738	843	3,604	91	1	2019 ^p
90	21,622	1,586	18,761	840	3,605	92	2	
90	21,638	1,594	18,791	837	3,602	92	3	
90	21,656	1,603	18,825	833	3,599	93	4	
91	21,688	1,613	18,870	830	3,600	93	5	
92	21,727	1,626	18,918	829	3,604	93	6	
92	21,772	1,637	18,971	826	3,610	94	7	
91	21,806	1,644	19,011	824	3,612	94	8	
92	21,832	1,651	19,052	821	3,608	94	9	
92	21,843	1,659	19,083	817	3,599	95	10	
92	21,874	1,668	19,129	815	3,595	95	11	

1. Sum of Gasoline and Electricity

2. Includes Kerosene, Alcohol, Solar, LNG, Hybrid (Diesel+Electricity, LPG+Electricity, CNG+Electricity, LNG+Electricity) and Others

Source: Ministry of Land, Infrastructure and Transport

8.7. 냉난방도일

Heating and cooling degree-days

구 분	평균기온 Average temperature °C		난방도일 Heating degree day	냉방도일 Cooling degree day
1990		12.8	2,557.6	673.8
1995		12.2	2,738.9	646.3
1996		12.2	2,843.9	742.3
1997		12.9	2,625.4	784.6
1998		13.8	2,322.9	803.0
1999		13.2	2,560.3	829.1
2000		12.7	2,758.5	823.7
2001		12.8	2,721.0	844.8
2002		12.9	2,545.8	689.5
2003		12.8	2,509.4	636.8
2004		13.3	2,467.4	766.1
2005		12.1	2,889.5	750.4
2006		13.0	2,524.1	721.7
2007		13.3	2,483.2	761.4
2008		12.9	2,589.0	745.9
2009		12.9	2,585.4	743.4
2010		12.1	2,953.4	814.8
2011		12.0	2,882.6	722.6
2012		12.2	2,967.7	870.0
2013		12.5	2,908.0	908.9
2014		13.4	2,501.6	822.7
2015		13.6	2,459.1	861.1
2016		13.6	2,589.7	976.7
2017		13.0	2,687.6	889.4
2018		12.9	2,763.4	939.3
2017	11	5.6	371.2	-
	12	-1.9	617.8	-
2018	1	-4.0	681.3	-
	2	-1.6	550.1	-
	3	8.1	307.5	-
	4	13.0	153.1	2.7
	5	18.2	32.3	37.5
	6	23.1	0.0	154.1
	7	27.8	0.0	303.7
	8	28.8	0.0	333.6
	9	21.5	1.5	106.4
	10	13.1	154.6	1.3
	11	7.8	306.2	-
	12	-0.6	576.8	-
2019 ^p	1	-0.9	582.8	-
	2	1.0	476.4	-
	3	7.1	336.3	-
	4	12.1	181.6	5.2
	5	19.4	15.7	59.7
	6	22.5	18.0	135.1
	7	25.9	0.0	244.2
	8	27.2	0.0	284.9
	9	22.6	18.0	139.3
	10	16.4	70.0	19.5
	11	7.6	312.6	0.0

자료: 기상청

Source: Korea Meteorological Administration

8.8. 도시가구 가계수지

Average income and expenditure per household in cities

구 분		도시가구 Household in cities				도시근로자 가구 Household for urban salary and wage earner's households			
		소득	소비지출			소득	소비지출		
				교통	연료비			교통	연료비
		Income	Consumption expenditure	Transport	Fuel expenses	Income	Consumption expenditure	Transport	Fuel expenses
1,000 won									
1990		938	603	48	22	945	579	47	21
1995		1,871	1,125	123	40	1,898	1,100	129	39
1996		2,096	1,269	142	47	2,149	1,251	155	45
1997		2,211	1,330	158	53	2,269	1,306	164	51
1998		1,968	1,177	137	59	2,138	1,181	147	58
1999		2,032	1,334	167	61	2,235	1,355	183	59
2000		2,221	1,484	186	70	2,388	1,491	194	68
2001		2,426	1,600	192	75	2,658	1,628	208	72
2002		2,592	1,670	202	75	2,835	1,697	209	73
2003		2,712	1,757	203	77	2,931	1,793	216	75
2004		2,868	1,849	214	80	3,112	1,897	229	78
2005		2,973	1,926	229	85	3,252	1,991	244	83
2006		3,117	1,997	246	88	3,444	2,071	262	86
2007		3,283	2,073	253	90	3,656	2,164	280	87
2008		3,489	2,180	266	96	3,901	2,309	294	94
2009		3,469	2,180	266	98	3,853	2,310	291	97
2010		3,670	2,313	269	109	4,008	2,435	294	108
2011		3,894	2,404	284	111	4,249	2,531	304	109
2012		4,127	2,485	299	117	4,492	2,622	327	116
2013		4,203	2,507	306	118	4,606	2,655	334	116
2014		4,335	2,567	331	111	4,735	2,724	365	109
2015		4,405	2,577	317	116	4,817	2,723	336	124
2016		4,427	2,573	304	108	4,884	2,740	331	115
2017		4,525	2,673	386	102	5,003	2,900	439	114
2018		4,751	2,616	348	104	5,402	2,835	399	113
2015	4/4	4,335	2,553	343	113	4,717	2,676	349	120
2016	1/4	4,591	2,680	308	106	5,173	2,883	335	115
	2/4	4,343	2,528	324	106	4,749	2,679	351	113
	3/4	4,464	2,602	300	111	4,949	2,771	329	120
	4/4	4,336	2,493	287	109	4,795	2,655	312	119
2017	1/4	4,665	-	-	-	5,318	-	-	-
	2/4	4,380	-	-	-	4,734	-	-	-
	3/4	4,581	-	-	-	5,068	-	-	-
	4/4	4,472	-	-	-	4,891	-	-	-
2018	1/4	4,855	-	-	-	5,670	-	-	-
	2/4	4,619	-	-	-	5,168	-	-	-
	3/4	4,844	-	-	-	5,495	-	-	-
	4/4	4,686	-	-	-	5,274	-	-	-
2019 ^p	1/4	4,918	-	-	-	5,660	-	-	-
	2/4	4,802	-	-	-	5,374	-	-	-
	3/4	4,984	-	-	-	5,691	-	-	-

자료: 통계청

Source: Statistics Korea

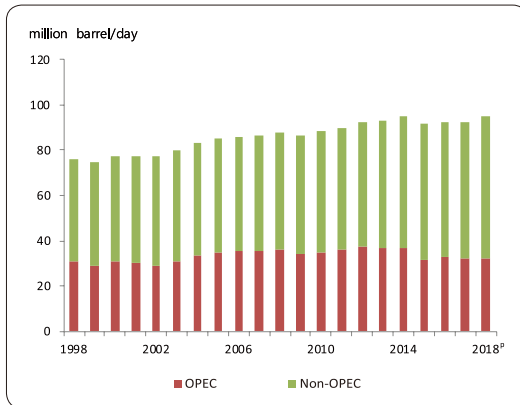
9. 해외 에너지

World energy

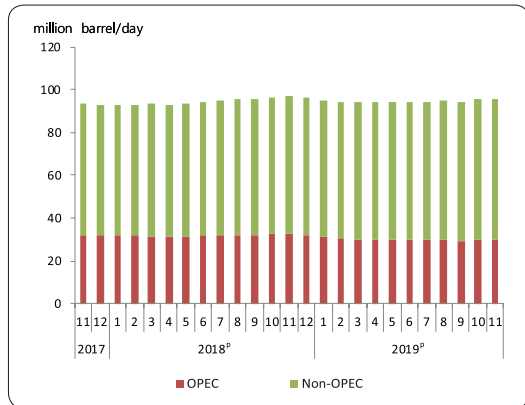


□ 세계 원유 생산 World crude oil production

<1998~2018^p>

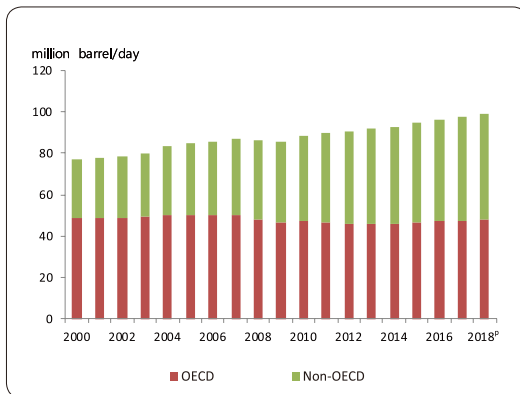


<월별 Monthly>

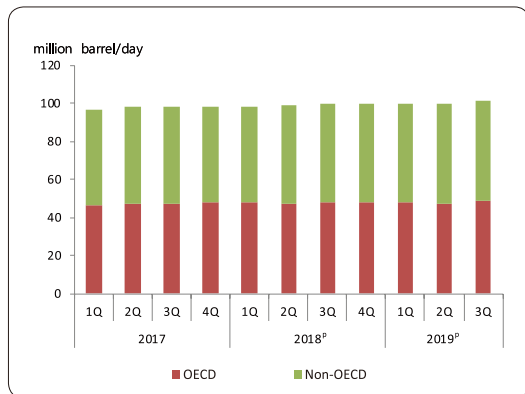


□ 세계 석유 수요 World oil demand

<1998~2017>

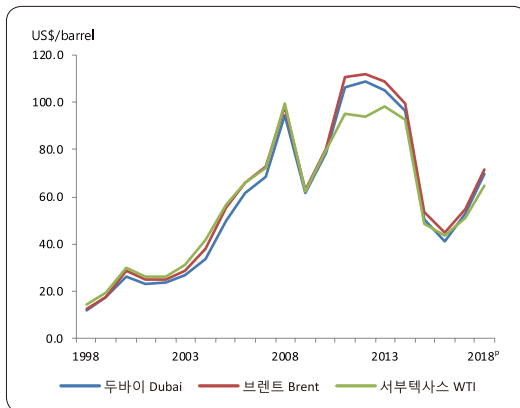


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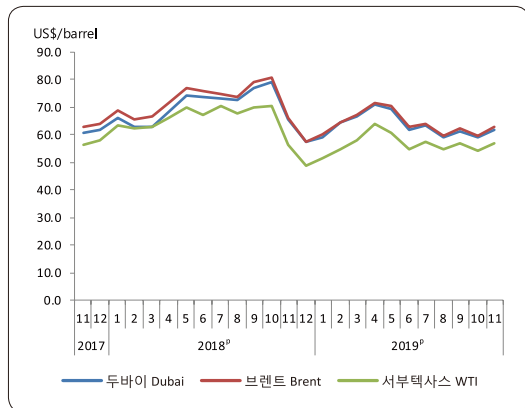


□ 국제 석유 가격 International oil price

<1998~2018^p>



<월별 Monthly>



9.1.1 세계 원유 생산: OPEC

World crude oil production: OPEC members

구 분		OPEC ¹ OPEC ¹	사우디아라비아 ² Saudi Arabia ²	이란 Iran	이라크 Iraq	쿠웨이트 ² Kuwait ²	아랍에미레이트 UAE	베네주엘라 Venezuela	나이지리아 Nigeria
		Million barrel/day							
1998		30.59	8.37	3.63	2.11	2.09	2.30	3.12	2.11
1999		29.24	7.78	3.50	2.52	1.91	2.07	2.78	1.95
2000		30.77	8.28	3.68	2.57	2.04	2.24	2.89	2.04
2001		30.28	7.98	3.70	2.36	2.00	2.16	2.81	2.08
2002		28.80	7.65	3.40	2.01	1.87	1.99	2.44	1.97
2003		30.84	8.78	3.78	1.32	2.17	2.29	2.26	2.15
2004		33.29	8.90	3.93	1.99	2.35	2.35	2.52	2.32
2005		35.08	9.35	3.88	1.81	2.42	2.46	2.79	2.41
2006		35.38	9.22	3.91	1.90	2.50	2.62	2.73	2.25
2007		35.25	8.76	3.99	2.09	2.44	2.52	2.74	2.13
2008		36.35	9.21	3.90	2.38	2.60	2.59	2.78	1.95
2016		34.39	8.18	3.74	2.43	2.28	2.27	2.67	1.82
2010		34.84	8.18	3.71	2.36	2.30	2.31	2.54	2.07
2011		35.80	9.35	3.62	2.67	2.53	2.51	2.50	2.04
2012		37.62	9.78	3.00	2.95	2.74	2.65	2.50	2.01
2013		36.71	9.66	2.68	3.08	2.81	2.76	2.50	1.84
2014		36.76	9.72	2.81	3.34	2.79	2.77	2.46	1.85
2015		31.84	10.16	2.85	4.00	2.79	2.95	2.46	1.77
2016		33.01	10.42	3.55	4.42	2.88	3.05	2.24	1.47
2017		32.01	9.96	3.81	4.47	2.71	2.93	1.97	1.53
2018 ^p		31.88	10.33	3.58	4.56	2.75	3.00	1.40	1.60
2017	11	32.01	9.95	3.85	4.45	2.71	2.90	1.78	1.58
	12	31.86	9.97	3.83	4.49	2.70	2.87	1.61	1.61
2018 ^p	1	31.83	9.98	3.80	4.46	2.70	2.85	1.61	1.68
	2	31.79	9.96	3.85	4.46	2.70	2.80	1.55	1.68
	3	31.53	9.92	3.85	4.44	2.70	2.87	1.47	1.62
	4	31.42	9.92	3.85	4.41	2.71	2.87	1.44	1.59
	5	31.49	10.03	3.85	4.47	2.70	2.87	1.43	1.47
	6	31.75	10.46	3.83	4.56	2.72	2.90	1.42	1.46
	7	31.73	10.35	3.78	4.61	2.80	2.98	1.34	1.53
	8	32.16	10.42	3.62	4.66	2.80	2.98	1.32	1.67
	9	32.24	10.52	3.44	4.67	2.78	3.05	1.32	1.65
	10	32.36	10.64	3.32	4.65	2.76	3.22	1.30	1.65
	11	32.37	11.06	2.97	4.60	2.77	3.32	1.30	1.61
	12	31.76	10.64	2.80	4.77	2.80	3.25	1.29	1.63
2019 ^p	1	31.03	10.24	2.70	4.78	2.72	3.10	1.28	1.65
	2	30.75	10.14	2.74	4.72	2.71	3.05	1.14	1.69
	3	30.23	9.80	2.78	4.59	2.71	3.05	0.90	1.73
	4	30.22	9.81	2.63	4.67	2.69	3.05	0.86	1.71
	5	29.99	9.70	2.36	4.79	2.71	3.05	0.86	1.66
	6	29.95	9.77	2.24	4.73	2.66	3.12	0.87	1.80
	7	29.68	9.65	2.20	4.78	2.67	3.09	0.81	1.83
	8	29.73	9.79	2.18	4.81	2.63	3.08	0.80	1.81
	9	28.84	9.02	2.18	4.77	2.65	3.07	0.65	1.80
	10	29.96	10.20	2.15	4.69	2.63	3.09	0.70	1.80
	11	29.66	9.90	2.13	4.65	2.69	3.09	0.78	1.77

1. 기탁석유, NGL, Cond. 포함.

2. 중립지대 지분 포함.

자료: IEA, Oil market report

1. Include others, NGL, Cond.

2. Include the Neutral zone

Source: IEA, Oil market report

9.1.2 세계 원유 생산: 비OPEC

World crude oil production: Non-OPEC and world

구 분	세계 ¹	비OPEC ¹	미국	캐나다	러시아	중국	멕시코	브라질	
	World ¹	Non-OPEC ¹	USA	Canada	Russia	China	Mexico	Brazil	
Million barrel/day									
1998	76.03	45.44	8.28	2.66	6.07	3.22	3.52	1.00	
1999	74.76	45.53	8.02	2.61	6.10	3.20	3.37	1.13	
2000	77.32	46.55	8.02	2.72	6.53	3.26	3.45	1.27	
2001	77.52	47.24	7.94	2.73	7.06	3.29	3.57	1.34	
2002	77.32	48.53	7.90	2.86	7.74	3.35	3.59	1.50	
2003	80.27	49.43	7.61	3.00	8.58	3.40	3.80	1.55	
2004	83.45	50.16	7.45	3.08	9.37	3.52	3.83	1.54	
2005	84.73	50.26	7.08	3.12	9.64	3.60	3.77	1.71	
2006	85.25	50.52	6.99	3.31	9.72	3.62	3.69	1.81	
2007	85.61	51.13	7.01	3.41	10.02	3.68	3.48	1.84	
2008	86.65	51.21	6.92	3.34	9.96	3.74	3.17	1.91	
2009	85.48	51.99	7.43	3.32	10.15	3.75	2.98	2.03	
2010	87.24	53.46	7.76	3.46	10.39	4.03	2.96	2.15	
2011	88.31	53.75	8.08	3.65	10.54	4.04	2.94	2.21	
2012	90.80	54.64	9.14	3.89	10.62	4.11	2.92	2.17	
2013	91.36	56.21	10.32	4.14	10.79	4.15	2.89	2.13	
2014	93.79	58.58	12.02	4.43	10.89	4.17	2.80	2.37	
2015	96.59	59.98	13.02	4.54	11.08	4.27	2.60	2.55	
2016	96.90	59.23	12.50	4.62	11.33	3.95	2.47	2.63	
2017	97.50	60.09	13.29	4.99	11.32	3.86	2.24	2.75	
2018 ^p	100.32	62.94	15.54	5.41	11.49	3.81	2.07	2.71	
2017	11	98.83	61.49	14.35	5.31	11.30	3.85	2.12	2.73
	12	97.96	60.78	14.12	5.45	11.32	3.80	2.12	2.75
2018 ^p	1	98.15	60.86	14.02	5.23	11.30	3.79	2.19	2.75
	2	98.66	61.36	14.50	5.42	11.30	3.79	2.15	2.75
	3	98.84	61.80	14.87	5.43	11.31	3.79	2.11	2.69
	4	98.72	61.80	14.97	5.05	11.30	3.81	2.15	2.73
	5	99.04	62.03	14.99	5.20	11.30	3.80	2.11	2.74
	6	100.09	62.84	15.17	5.20	11.39	3.89	2.10	2.73
	7	100.81	63.57	15.53	5.40	11.54	3.77	2.09	2.71
	8	101.47	63.81	16.15	5.68	11.54	3.81	2.06	2.63
	9	101.24	63.48	16.32	5.24	11.70	3.73	2.07	2.60
	10	102.15	64.26	16.39	5.59	11.75	3.83	1.99	2.74
	11	102.56	64.66	16.75	5.71	11.70	3.82	1.93	2.69
	12	101.99	64.65	16.72	5.74	11.78	3.89	1.93	2.81
2019 ^p	1	100.45	63.94	16.57	5.46	11.71	3.84	1.86	2.74
	2	99.95	63.70	16.55	5.47	11.67	3.84	1.95	2.59
	3	99.79	64.02	16.78	5.54	11.63	3.94	1.94	2.66
	4	100.01	64.25	17.09	5.60	11.57	3.87	1.92	2.71
	5	100.05	64.52	17.13	5.40	11.44	3.87	1.91	2.84
	6	99.99	64.49	17.03	5.54	11.49	3.97	1.91	2.66
	7	99.86	64.62	16.66	5.57	11.49	3.89	1.91	2.88
	8	100.60	65.31	17.29	5.59	11.64	3.87	1.94	3.10
	9	99.56	65.37	17.62	5.37	11.60	3.87	1.97	3.03
	10	101.34	65.83	17.57	5.51	11.57	3.86	1.93	3.07
	11	101.36	66.15	17.75	5.61	11.58	3.86	1.98	3.07

1. 기타석유, NGL, Cond. 포함.

자료: IEA, Oil market report

1. Include others, NGL, Cond.

Source: IEA, Oil market report

9.2. 세계 석유 수요

World oil demand

구 분	세계	OECD				비OECD								
			아메리카	유럽	아시아· 오세아니아		구소련	유럽	중국	기타 아시아	중남미	중동	아프리카	
	World	OECD	Americas	Europe	Asia-Oceania	Non- OECD	FSU	Europe	China	Other Asia	Latin America	Middle East	Africa	
million barrel/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 ^p		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
2016	1Q	95.6	46.7	24.5	13.7	8.5	48.9	4.6	0.7	11.8	13.1	6.5	8.0	4.2
	2Q	95.9	46.0	24.4	14.0	7.6	49.9	4.6	0.7	12.1	13.1	6.7	8.5	4.2
	3Q	97.2	47.3	25.0	14.5	7.8	49.9	4.9	0.7	11.8	12.7	6.8	8.9	4.1
	4Q	97.7	47.3	24.8	14.2	8.3	50.4	5.0	0.7	12.0	13.5	6.7	8.3	4.2
2017	1Q	96.6	46.7	24.4	13.9	8.4	49.9	4.7	0.7	12.2	13.5	6.5	8.1	4.2
	2Q	97.8	47.0	25.0	14.2	7.8	50.8	4.8	0.7	12.7	13.4	6.6	8.4	4.2
	3Q	97.8	47.4	25.0	14.6	7.8	50.4	5.0	0.7	12.1	13.0	6.7	8.8	4.1
	4Q	98.3	47.6	25.1	14.2	8.3	50.7	4.9	0.8	12.3	13.6	6.6	8.2	4.3
2018 ^p	1Q	98.3	47.9	25.3	14.1	8.5	50.4	4.6	0.7	12.7	13.7	6.4	7.9	4.4
	2Q	98.7	47.1	25.2	14.3	7.6	51.6	4.8	0.8	13.0	13.9	6.4	8.4	4.3
	3Q	100.0	48.1	25.8	14.7	7.6	51.9	4.9	0.8	13.2	13.5	6.5	8.8	4.2
	4Q	99.5	47.8	25.7	14.1	8.0	51.7	4.8	0.8	13.1	14.0	6.4	8.2	4.4
2019 ^p	1Q	99.4	47.6	25.4	13.9	8.3	51.8	4.6	0.8	13.1	14.3	6.3	8.2	4.5
	2Q	100.0	47.4	25.6	14.4	7.4	52.6	4.8	0.8	13.4	14.3	6.3	8.6	4.4
	3Q	101.3	48.4	26.0	14.7	7.7	52.9	5.1	0.8	13.6	14.0	6.5	8.7	4.2

자료: 한국석유공사

Source: Korea National Oil Corporation

9.3. 국제 석유 가격

International oil price

구 분		OPEC 바스켓 OPEC Basket	아랍라이트 Arab Light	두바이 ¹ Dubai ¹	브렌트 ¹ Brent ¹	서부텍사스 ¹ WTI ¹	오만 ¹ Oman ¹
		US\$/barrel					
1990		21.3	20.7	20.5	-	-	20.8
1995		16.9	16.8	16.1	-	-	16.4
1996		20.3	19.8	18.6	-	-	19.3
1997		18.8	18.8	18.2	-	-	18.6
1998		12.3	12.3	12.2	12.3	14.4	12.1
1999		17.5	17.4	17.3	17.8	19.2	17.4
2000		27.6	26.8	26.3	28.5	30.2	26.8
2001		23.2	23.1	22.8	25.0	26.0	22.9
2002		24.5	24.3	23.9	25.1	26.1	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		61.1	61.0	61.6	66.1	66.3	62.7
2007		69.1	69.1	68.3	72.7	72.4	68.8
2008		94.5	94.8	94.3	98.5	99.8	95.0
2009		61.1	61.2	61.9	62.7	62.1	62.2
2010		77.5	77.8	78.1	80.3	79.6	78.4
2011		107.5	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		96.3	97.1	96.6	99.5	92.9	96.8
2015		49.5	49.9	50.7	53.6	48.8	51.1
2016		40.8	40.9	41.4	45.1	43.5	42.1
2017		52.4	53.0	53.2	54.7	50.9	53.5
2018 ^p		69.8	70.3	69.7	71.7	64.9	70.0
2017	11	60.7	61.1	60.8	62.9	56.7	60.8
	12	62.1	62.5	61.6	64.1	58.0	61.7
2018 ^p	1	66.9	67.4	66.2	69.1	63.7	67.0
	2	63.5	64.0	62.7	65.7	62.2	63.2
	3	63.8	64.4	62.7	66.7	62.8	63.2
	4	68.4	68.9	68.3	71.8	66.3	68.3
	5	74.1	74.7	74.4	77.0	70.0	74.5
	6	73.2	74.3	73.6	75.9	67.3	73.7
	7	73.3	74.2	73.1	75.0	70.6	73.2
	8	72.3	73.4	72.5	73.8	67.9	72.7
	9	77.2	78.2	77.2	79.1	70.1	77.8
	10	79.4	80.0	79.4	80.6	70.8	80.1
	11	65.3	66.4	65.6	66.0	56.7	65.9
	12	56.9	58.2	57.3	57.7	49.0	57.6
2019 ^p	1	58.7	59.6	59.1	60.2	51.6	59.3
	2	63.8	64.9	64.6	64.4	55.0	64.7
	3	66.4	67.4	66.9	67.0	58.2	67.0
	4	70.8	71.9	70.9	71.6	63.9	71.1
	5	70.0	70.8	69.4	70.3	60.9	69.8
	6	62.9	63.5	61.8	63.0	54.7	61.8
	7	64.7	65.6	63.3	64.2	57.6	63.8
	8	59.6	60.8	59.1	59.5	54.8	59.7
	9	62.4	62.7	61.1	62.3	57.0	61.7
	10	59.9	61.0	59.4	59.6	54.0	60.1
	11	62.9	64.0	62.0	62.7	57.1	62.8

1. 현물가격

자료: OPEC, 석유공사

1. Spot prices

Source: OPEC, Korea National Oil Corporation

부록

Appendix



- 냉난방도일(Heating/Cooling Degree-Days) : 일평균 온도와 기준온도 18℃와의 차이를 일별로 누적한 값. 일평균 온도가 기준온도보다 높은 경우 냉방도일로, 낮은 경우는 난방도일로 계산
- 비에너지유(Non-Energy Use) : 납사, 용제, 아스팔트를 포함
- 에너지유(Energy Use) : 휘발유, 등유, 경유, 벙커유, 제트유를 포함
- 재고증감(Stock Change) : 생산자, 수입자 및 에너지전환 산업체의 재고의 증감을 나타내며, 최종소비자의 재고는 제외
- 중유(Residual Fuel Oil) : 중질 연료유로 중유(벙커유)가 이에 해당
- BPSD(Barrel per Stream Day) : 석유정제설비의 능력을 표시하는 단위로서, 연간 처리량을 가동일수로 나눈 값임
- C & F(Cost and Freight) : FOB가격에 수송비를 포함
- CIF(Cost, Insurance and Freight) : C & F가격에 보험료를 포함하며, 주로 수입가에 적용함
- FOB(Free on Board) : 본선인도가격으로 수출가격 기준으로 주로 적용함
- LNG(Liquefied Natural Gas) : 수송 및 저장이 용이하도록 압축 또는 냉각으로 액화된 천연가스
- LPG(Liquefied Petroleum Gas) : 액화석유가스로 정제공정 및 원유 안정화 공정에서 생산한 파라핀계의 탄화수소물로, 주성분은 프로판, 부탄 또는 이들 두가지의 혼합물로 구성
- NGL(Natural Gas Liquid) : 액화탄화수소물로서 천연가스의 제조·정제 및 안정화 공정에서 생산되며, 주성분으로 에탄, 프로판, 부탄, 천연가솔린, 콘덴세이트 및 소량의 비탄화수소물을 포함
- toe(ton of oil equivalent) : 원유 1톤이 가지고 있는 열량으로 10⁷ Kcal임

에너지경제연구원 회원 제도 안내

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