



승인(협의)번호
제 339001 호

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에너지통계 월보

MONTHLY
ENERGY
STATISTICS



2017년 3월 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
MJ : Mega Joule
GJ : Giga Joule
t : metric ton = tonne = 1,000 kg
toe : tonne of oil equivalent = 10^7 Kcal

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
CIF : Cost, Insurance and Freight

- nil
p Preliminary
... not available
e estimate

열량환산계수 적용안내

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

에너지경제연구원

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1. 일러두기

가. 단위

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

나. 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 중임.

다. 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, 우리나라의 경우는 1차에너지중에서 수입에너지 소비가 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

7) 에너지소비의 GDP 탄력성

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

2. 단위 및 열량환산표 Unit Conversion Factors

가. 부피

Units	m ³	cm ³	liter	in ³	ft ³	㎎gal	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	4.32900×10 ⁻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

Units	g	kg	oz	lb	metric ton	Short ton(단)	Long ton(영)
1 g	1	10 ⁻³	0.03527396	2.20462×10 ⁻³	10 ⁻⁶	1.10231×10 ⁻⁶	9.842×10 ⁻⁷
1 kg	1000.	1	36.27396	2.204623	10 ⁻³	1.10231×10 ⁻³	9.842×10 ⁻⁴
1 oz(avdp)	28.34952	0.02834952	1	0.0625	2.83495×10 ⁻⁵	5×10 ⁻¹	2.790×10 ⁻⁵
1 lb(avdp)	453.5924	0.4535924	16	1	4.53592×10 ⁻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

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 기준)

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

마. 단위의 배수

명 칭	기 호	크 기
Tera	T	10 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 (매트릭톤)	롱 톤	숏 톤	배럴	입방미터 (m³)	1천 갤론 (영)	1천 갤론 (미)
톤 (매트릭톤)	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 론 (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 〈에너지법 시행규칙(제5조제1항, 별표)〉

〈개정 2011.12.30.〉

		단위	총발열량(kcal)						'07년 대비 열량 증감
			1980	1981	1987	1990	2007	2012	
석유 (17종)	원 유	kg	10,000	10,000	10,000	10,000	10,750	10,730	↓ 20
	휘 발 유	ℓ	8,300	8,300	8,300	8,300	8,000	7,780	↓ 220
	등 유 (실 내)	ℓ	8,700	8,700	8,700	8,700	8,800	8,790	↓ 10
	등 유 (보 일 러)	ℓ	8,700	8,700	8,700	8,700	8,950	8,790	↓ 160
	경 유	ℓ	9,200	9,200	9,200	9,200	9,050	9,010	↓ 40
	B - A	ℓ	9,500	9,400	9,400	9,400	9,300	9,290	↓ 10
	B - B	ℓ	9,200	9,700	9,700	9,700	9,650	9,670	↑ 20
	B - c	ℓ	9,900	9,900	9,900	9,900	9,900	9,950	↑ 50
	프 로 판	kg	12,000	12,000	12,000	12,000	12,050	12,050	-
	부 탄	kg	11,800	11,800	11,800	11,800	11,850	11,850	-
	납 사	ℓ	8,000	8,000	8,000	8,000	8,050	7,710	↓ 340
	용 제	ℓ	-	-	-	(8,200)	7,950	7,950	-
	항 공 유 (J A - 1)	ℓ	-	8,700	8,700	8,700	8,750	8,730	↓ 20
	항 공 유 (J P - 4)	ℓ	-	8,500	8,500	8,500		8,730	
	항 공 유 (A V I - G)	ℓ	-	8,700	8,700	8,700		8,730	
	아 스 팔 트	kg	-	-	-	(10,000)	9,900	9,910	↑ 10
	윤 활 유	ℓ	-	-	-	(9,400)	9,250	9,500	↑ 250
	석 유 코 크 스	kg	-	-	-	(10,800)	8,100	8,000	↓ 100
	부 생 연 료 1 호	ℓ	-	-	-	-	8,850	8,800	↓ 50
	부 생 연 료 2 호	ℓ	-	-	-	-	9,700	9,550	↓ 150
가스 (3종)	천 연 가 스 (L N G)	kg	-	9,500	12,980	13,000	13,000	13,040	↑ 40
	도 시 가 스 (L N G)	Nm³	7,000	7,000	7,000	10,500	10,550	10,430	↓ 120
	도 시 가 스 (L P G)	Nm³	-	-	-	15,000	15,000	15,000	-
석탄 (7종)	국 내 무 연 탄	kg	4,600	4,600	4,500	4,500	4,650	4,500	↓ 150
	연 료 용 수 입 무 연 탄	kg	-	-	-	6,000	6,550	5,020	↓ 1,530
	원 료 용 수 입 무 연 탄	kg	-	-	-	6,000	6,550	5,900	↓ 650
	연 료 용 유 연 탄 (역 청 탄)	kg	6,600	6,600	6,600	6,600	6,200	6,160	↓ 40
	원 료 용 유 연 탄 (역 청 탄)	kg	6,600	6,600	6,600	6,600	70,00	7,000	-
	아 역 청 탄	kg	-	-	-	-	5,350	5,420	↑ 70
	코 크 스	kg	6,500	6,500	6,500	6,500	7,050	6,960	↓ 90
전기 등 (3종)	전 기 (발 전 기 준)	kWh	2,500	2,500	2,500	2,500	2,150	2,110	↓ 40
	전 기 (소 비 기 준)	kWh	-	-	-	-	-	2,300	-
	신 탄	kg	4,500	4,500	4,500	4,500	4,500	4,500	-

- 주 1. “총발열량”이라 함은 연료의 연소과정에서 발생하는 수증기의 잠열을 포함한 발열량
 2. “석유환산톤(toe: ton of oil equivalent)이란 원유 1톤이 갖는 열량(1 toe = 10⁶kcal = 41,868GJ)
 3. 석탄의 발열량은 인수식 기준, 최종소비 전력 환산은 1KWh = 860kcal 적용

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 : 에너지 수요와 공급에 영향을 미치는 여러가지 요인을 비교분석함으로써 에너지 수요 전망, 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)
- 1994. : 통계청 승인 간행물(115-03)
- 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 에너지수급통계 작성기관에서 매월 생산 및 판매실적을 보고 받아 에너지경제연구원 에서 에너지밸런스 및 국가에너지수급 관련 통계를 작성

※ 에너지 수급 통계 작성 Flow 참조

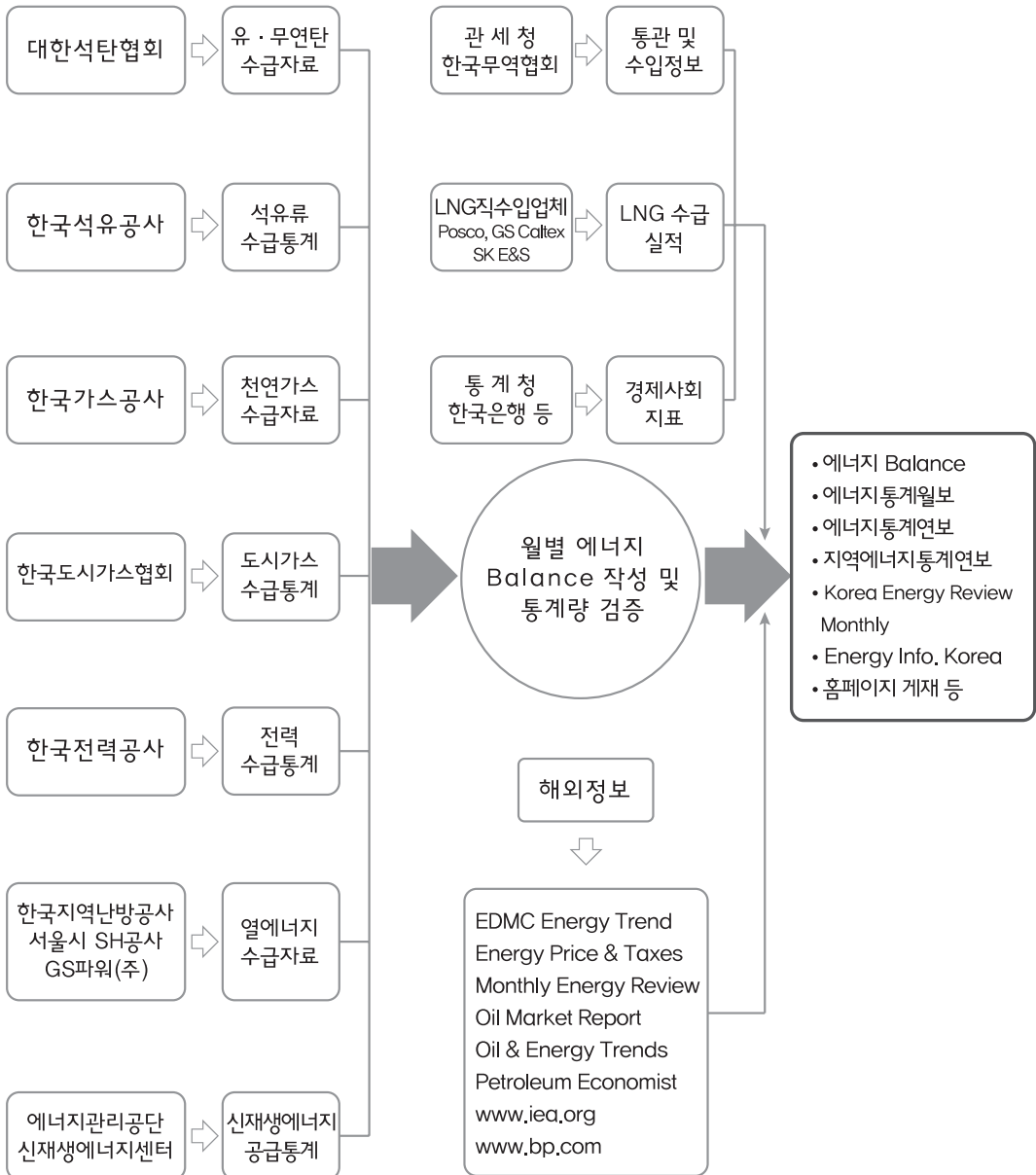
라. 작성 내용

- 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

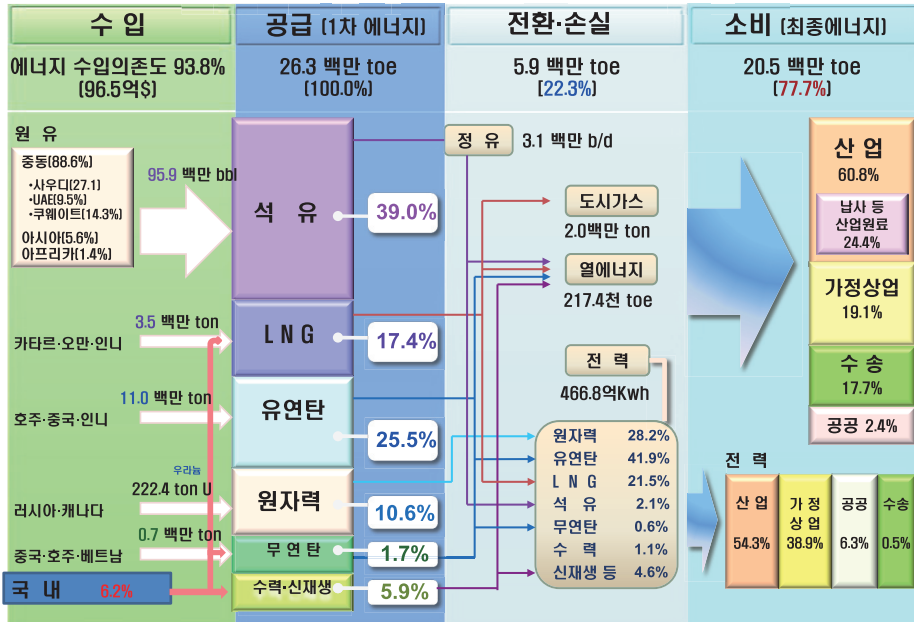


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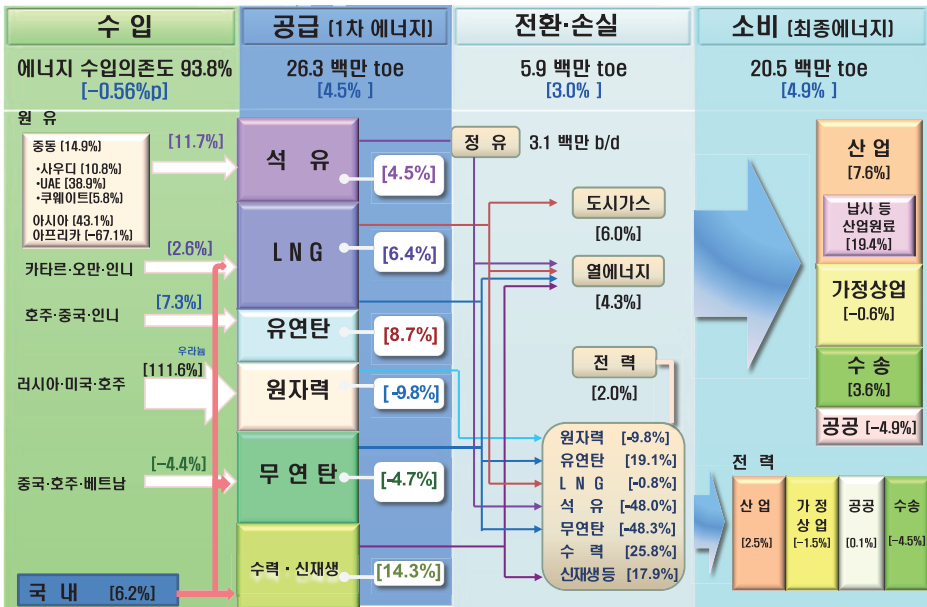
※ Energy Balance Flow

2017년 3월 Energy Balance Flow



자료 : 에너지경제연구원 에너지정보통계센터

2017년 3월 Energy Balance Flow [전년동월 대비]



자료 : 에너지경제연구원 []는 전년동월 대비 증감

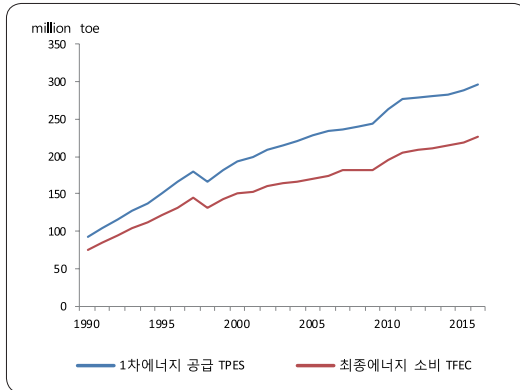
1. 에너지 개요 및 1차에너지 공급

Energy overview and
primary energy supply

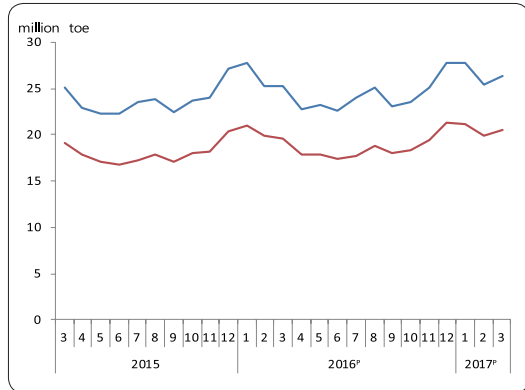


□ 1차에너지 공급, 최종에너지 소비 Primary energy supply, Final energy consumption

<1990~2016^P>

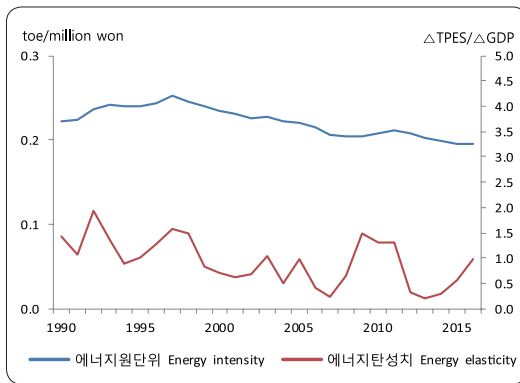


<월별 Monthly>

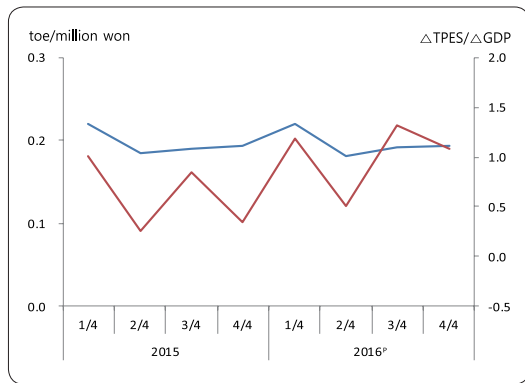


□ 에너지원단위, 에너지탄성치 Energy intensity, Energy elasticity

<1990~2016^P>

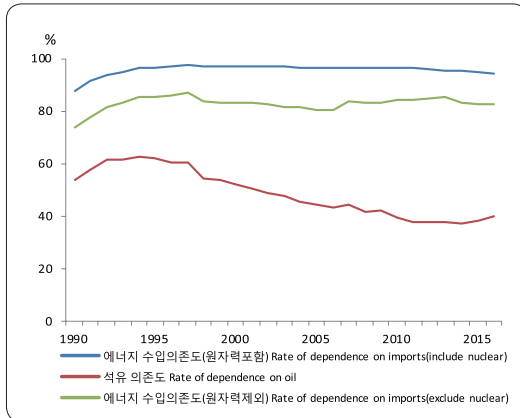


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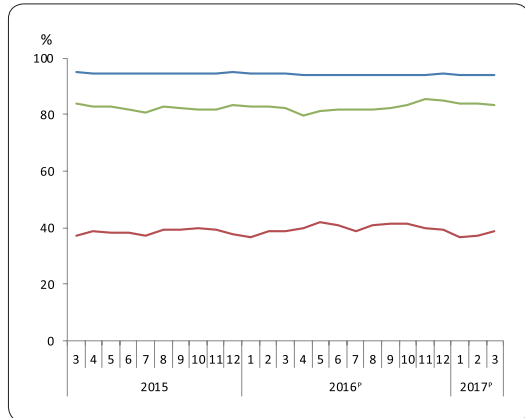


□ 에너지 수입의존도, 석유 의존도 Rate of dependence on imports, Rate of dependence on oil

<1990~2016^P>



<월별 Monthly>



1.1 주요 에너지지표

Major energy indicators

		1차에너지 공급	최종에너지 소비	에너지원단위 ¹	에너지탄성치 ¹	에너지수입액	에너지 수입의존도 ²	석유 의존도
		TPES	TFEC	Energy intensity	Energy elasticity	Energy import value	Rate of dependence on imports	Rate of dependence on oil
		1,000 toe		toe/million won	△TPES/△GDP	million US\$	%	
1990		93,192	75,107	0.222	1.441	10,908	87.9	53.8
1991		103,619	83,803	0.224	1.076	12,754	91.3	57.5
1992		116,010	94,623	0.236	1.929	14,654	93.6	61.8
1993		126,879	104,048	0.242	1.378	15,088	94.8	61.9
1994		137,234	112,206	0.239	0.887	15,471	96.4	62.9
1995		150,437	121,962	0.239	1.002	19,053	96.8	62.5
1996		165,212	132,033	0.244	1.292	24,243	97.3	60.5
1997		180,638	144,432	0.252	1.583	27,308	97.6	60.4
1998		165,932	132,128	0.245	1.480	18,276	97.1	54.6
1999		181,363	143,060	0.241	0.823	22,745	97.2	53.6
2000		192,887	149,852	0.235	0.714	37,888	97.2	52.0
2001		198,409	152,950	0.231	0.633	33,894	97.3	50.6
2002		208,636	160,451	0.226	0.694	32,290	97.1	49.1
2003		215,066	163,995	0.227	1.051	38,306	96.9	47.6
2004		220,238	166,009	0.221	0.491	49,600	96.6	45.7
2005		228,622	170,854	0.221	0.970	66,697	96.6	44.4
2006		233,372	173,584	0.215	0.401	85,566	96.5	43.6
2007		236,454	181,455	0.206	0.242	94,978	96.6	44.6
2008		240,752	182,576	0.204	0.643	141,475	96.4	41.6
2009		243,311	182,066	0.205	1.502	91,160	96.4	42.1
2010		263,805	195,587	0.208	1.296	121,654	96.5	39.5
2011		276,636	205,863	0.211	1.321	172,490	96.5	38.0
2012		278,698	208,120	0.208	0.325	184,800	96.0	38.1
2013		280,290	210,247	0.203	0.197	178,698	95.7	37.8
2014		282,938	213,870	0.198	0.286	174,137	95.2	37.1
2015		287,479	218,608	0.196	0.573	102,715	94.8	38.1
2016 ^p		295,364	226,737	0.196	0.980	80,942	94.2	39.9
2015	3	25,066	19,109	0.219	1.013	9,263	94.9	37.4
	4	22,859	17,798	-	-	8,777	94.7	38.7
	5	22,299	17,062	-	-	9,404	94.7	38.2
	6	22,226	16,808	0.184	0.253	8,308	94.7	38.4
	7	23,482	17,181	-	-	9,188	94.7	37.0
	8	23,883	17,883	-	-	8,113	94.7	39.4
	9	22,341	17,100	0.190	0.845	7,361	94.4	39.5
	10	23,584	17,982	-	-	7,717	94.7	39.8
	11	24,005	18,175	-	-	7,451	94.8	39.6
	12	27,066	20,407	0.193	0.346	8,277	95.2	37.9
2016 ^p	1	27,764	20,942	-	-	6,124	94.6	36.6
	2	25,271	19,830	-	-	5,718	94.6	38.7
	3	25,209	19,502	0.221	1.184	5,828	94.4	39.0
	4	22,725	17,783	-	-	5,816	93.8	40.0
	5	23,191	17,899	-	-	6,351	94.0	41.9
	6	22,583	17,327	0.181	0.502	6,345	94.0	41.2
	7	24,043	17,670	-	-	6,797	93.9	38.7
	8	25,076	18,858	-	-	6,501	94.2	40.9
	9	22,984	17,957	0.191	1.323	6,918	93.9	41.5
	10	23,558	18,265	-	-	7,183	94.0	41.7
	11	25,134	19,477	-	-	8,322	94.2	40.0
	12	27,826	21,228	0.194	1.084	9,039	94.6	39.2
2017 ^p	1	27,775	21,196	-	-	9,464	94.0	36.5
	2	25,364	19,917	-	-	9,380	93.9	37.5
	3	26,335	20,484	0.217	0.542	9,798	93.8	39.0
2016 ^p	1-3	78,244	60,274	0.221	1.184	6,124	94.4	39.0
2017 ^p	1-3	79,473	61,596	0.217	0.542	9,464	93.8	39.0

1. 월별 수치는 분기자료임.

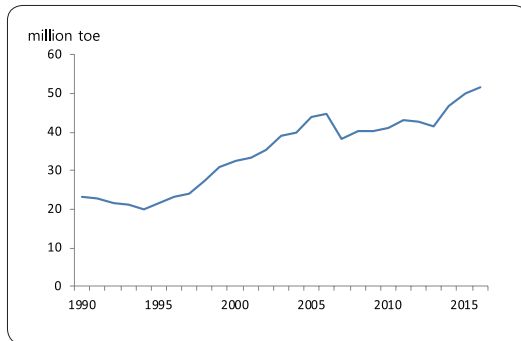
2. 원자력 포함

1. Monthly figures are on quarterly basis.

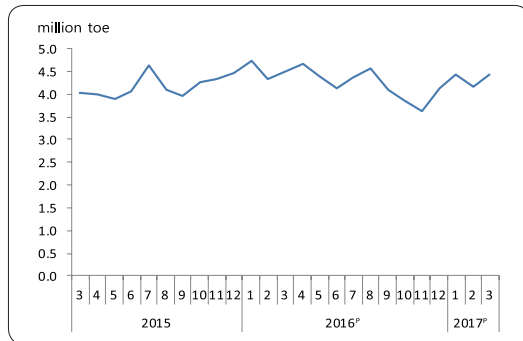
2. Include nuclear power

□ 에너지 생산 Total energy production

<1990~2016^p>

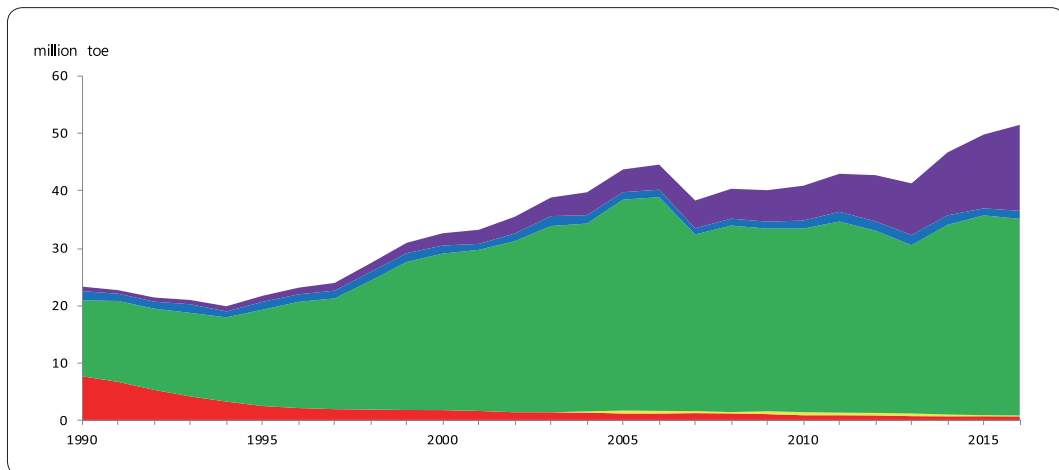


<월별 Monthly>

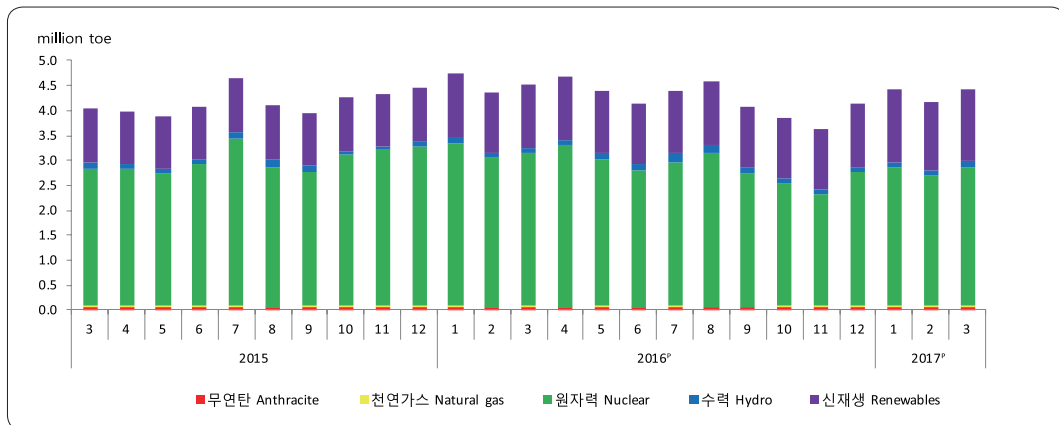


□ 에너지원별 생산 Energy production by source

<1990~2016^p>



<월별 Monthly>



1.2 에너지 생산

Energy production by source

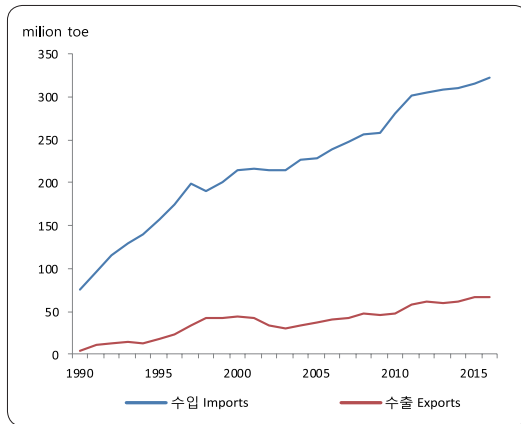
		합계 Total	무연탄 Anthracite	천연가스 ¹ Natural gas	수력 Hydro	원자력 Nuclear	신재생 Renewables
		1,000 toe					
1990		23,356	7,748	-	1,590	13,222	797
1991		22,734	6,776	-	1,263	14,078	617
1992		21,457	5,387	-	1,216	14,133	723
1993		21,027	4,249	-	1,502	14,535	742
1994		19,940	3,347	-	1,025	14,663	906
1995		21,751	2,574	-	1,369	16,757	1,051
1996		23,170	2,228	-	1,301	18,481	1,161
1997		23,998	2,031	-	1,351	19,272	1,344
1998		27,435	1,962	-	1,525	22,422	1,526
1999		30,978	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		38,861	1,484	-	1,722	32,415	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	6,618
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 ^p		51,499	777	154	1,398	34,219	14,951
2015	3	4,041	71	20	111	2,754	1,085
	4	3,994	71	18	91	2,746	1,068
	5	3,878	57	18	97	2,657	1,049
	6	4,072	73	15	76	2,852	1,056
	7	4,638	69	14	147	3,342	1,067
	8	4,107	57	13	140	2,803	1,094
	9	3,963	63	14	108	2,699	1,080
	10	4,251	69	7	87	3,031	1,058
	11	4,323	70	13	70	3,124	1,045
	12	4,469	72	13	79	3,207	1,098
2016 ^p	1	4,753	63	13	129	3,258	1,289
	2	4,350	56	12	83	2,989	1,210
	3	4,515	69	13	83	3,081	1,269
	4	4,675	64	6	98	3,235	1,271
	5	4,394	64	12	134	2,954	1,230
	6	4,140	67	6	109	2,737	1,220
	7	4,380	66	16	190	2,862	1,246
	8	4,581	60	0	146	3,091	1,284
	9	4,087	62	0	132	2,676	1,217
	10	3,846	66	16	100	2,460	1,204
	11	3,632	72	27	93	2,214	1,227
	12	4,147	68	32	101	2,662	1,284
2017 ^p	1	4,426	57	32	109	2,765	1,462
	2	4,163	59	29	107	2,611	1,356
	3	4,421	65	32	105	2,780	1,440
2016 ^p	1-3	13,617	188	38	296	9,328	3,767
2017 ^p	1-3	13,010	181	93	321	8,156	4,258

1. 동해-1 가스전 생산량

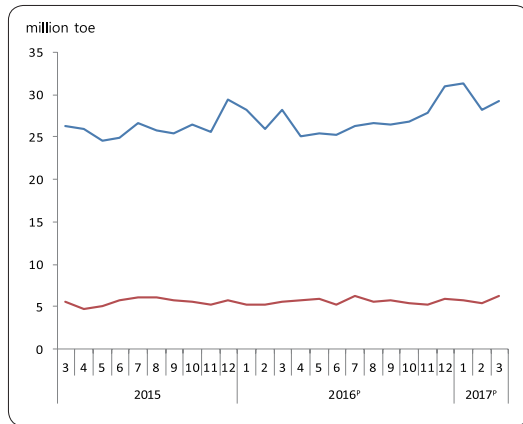
1. Production at Donghae-1 gas field

□ 에너지 수출입 Energy imports and exports

<1990~2016^P>

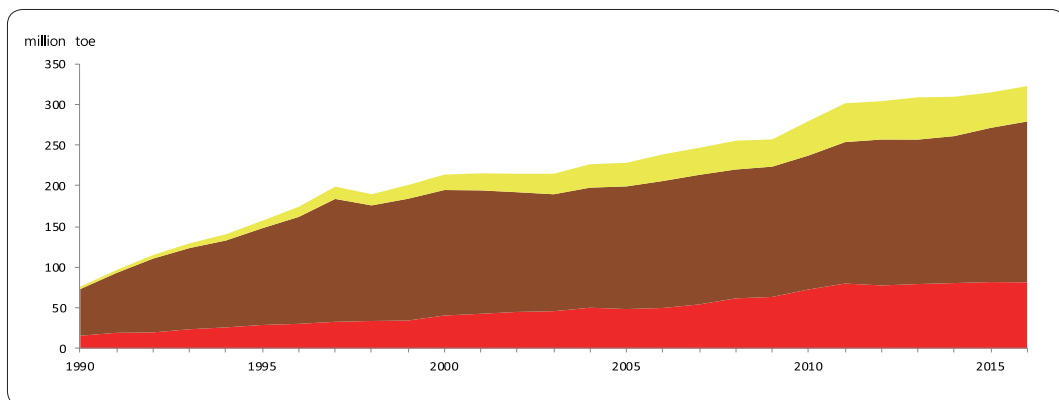


<월별 Monthly>

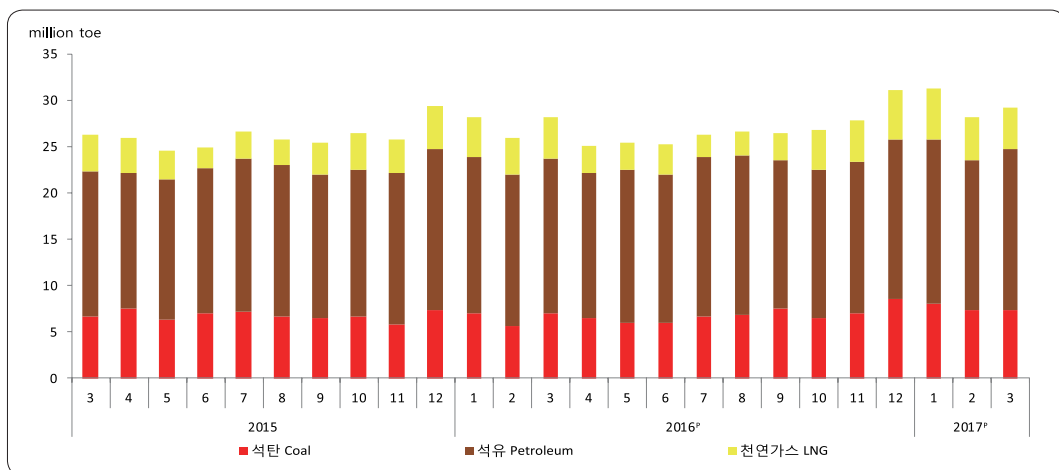


□ 에너지원별 수입 Energy imports by source

<1990~2016^P>



<월별 Monthly>



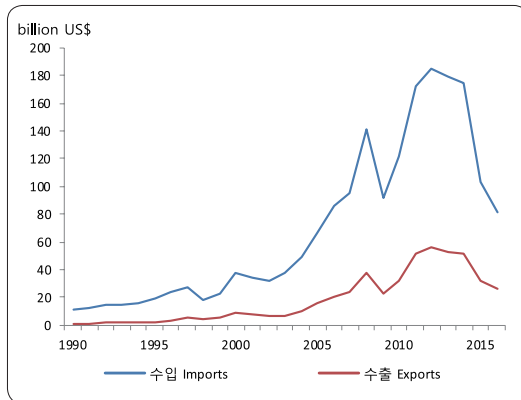
1.3.1 에너지 수출입

Energy imports and exports

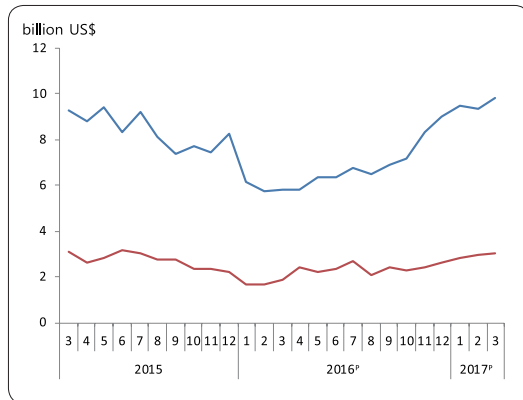
		수입 Imports				수출 Exports	순수입
		합계 Total	석탄 Coal	석유 Petroleum	천연가스 LNG	석유 Petroleum	Net imports
		1,000 toe					
1990		76,072	15,752	57,345	2,974	3,997	72,075
1991		96,596	19,321	73,689	3,586	10,418	86,178
1992		115,001	19,816	90,732	4,453	13,769	101,232
1993		129,274	23,696	99,788	5,790	15,385	113,888
1994		140,503	25,966	106,830	7,707	13,788	126,714
1995		157,094	28,956	118,959	9,178	17,744	139,350
1996		174,286	30,327	131,486	12,473	22,686	151,600
1997		199,007	32,850	151,040	15,118	33,046	165,961
1998		189,711	33,847	142,084	13,780	42,049	147,663
1999		200,966	34,410	149,691	16,865	42,362	158,604
2000		213,810	40,559	154,300	18,951	43,577	170,233
2001		215,372	42,691	151,668	21,013	41,991	173,381
2002		214,833	44,990	147,133	22,711	33,770	181,064
2003		214,866	45,894	143,708	25,264	29,873	184,994
2004		226,558	50,139	147,620	28,799	33,644	192,913
2005		228,340	48,498	150,798	29,044	37,886	190,454
2006		238,702	49,854	156,060	32,788	41,574	197,128
2007		246,773	54,237	159,298	33,239	41,709	205,063
2008		255,509	61,665	158,407	35,436	47,472	208,037
2009		257,143	63,431	160,144	33,568	46,758	210,385
2010		279,649	72,576	164,689	42,384	48,224	231,426
2011		301,425	79,861	173,875	47,690	57,541	243,884
2012		304,116	77,546	179,387	47,184	61,454	242,662
2013		308,806	79,230	177,578	51,998	59,665	249,141
2014		309,511	80,460	180,663	48,388	62,301	247,209
2015		314,779	81,688	189,583	43,509	65,981	248,798
2016 ^p		322,665	81,311	197,777	43,577	67,552	255,113
2015							
	3	26,328	6,754	15,612	3,962	5,617	20,711
	4	25,864	7,492	14,696	3,676	4,711	21,153
	5	24,605	6,281	15,256	3,069	5,081	19,524
	6	24,891	7,030	15,552	2,309	5,784	19,107
	7	26,592	7,240	16,403	2,949	6,078	20,513
	8	25,757	6,611	16,386	2,760	6,133	19,623
	9	25,343	6,500	15,461	3,382	5,784	19,559
	10	26,426	6,727	15,824	3,875	5,550	20,876
	11	25,672	5,872	16,283	3,517	5,164	20,507
	12	29,357	7,397	17,331	4,630	5,784	23,573
2016 ^p							
	1	28,182	7,106	16,688	4,388	5,258	22,924
	2	25,903	5,626	16,370	3,906	5,297	20,606
	3	28,149	7,000	16,688	4,460	5,587	22,562
	4	24,985	6,588	15,563	2,835	5,832	19,153
	5	25,369	5,986	16,497	2,885	5,942	19,426
	6	25,228	6,023	15,980	3,226	5,316	19,912
	7	26,298	6,744	17,060	2,493	6,331	19,967
	8	26,558	6,779	17,219	2,560	5,537	21,021
	9	26,394	7,555	15,942	2,897	5,765	20,628
	10	26,769	6,459	16,082	4,228	5,505	21,264
	11	27,800	6,940	16,413	4,448	5,242	22,558
	12	31,031	8,505	17,276	5,250	5,940	25,091
2017 ^p							
	1	31,298	8,131	17,572	5,595	5,769	25,529
	2	28,244	7,314	16,257	4,673	5,409	22,835
	3	29,269	7,438	17,249	4,581	6,306	22,963
2016 ^p 1-3							
	1-3	82,234	19,732	49,746	12,755	16,142	66,092
2017 ^p 1-3							
	1-3	88,811	22,883	51,079	14,850	17,485	71,327

□ 에너지 수출입액 Energy export and import value

<1990~2016^P>

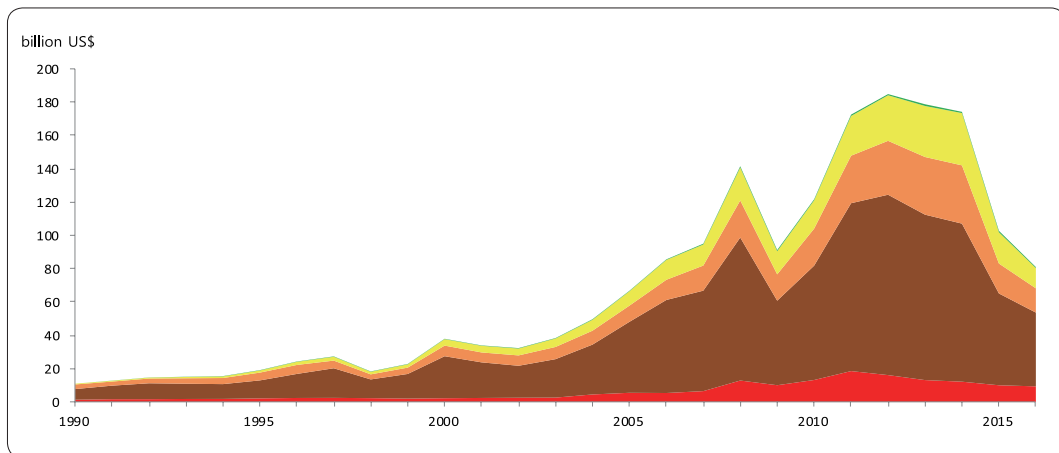


<월별 Monthly>

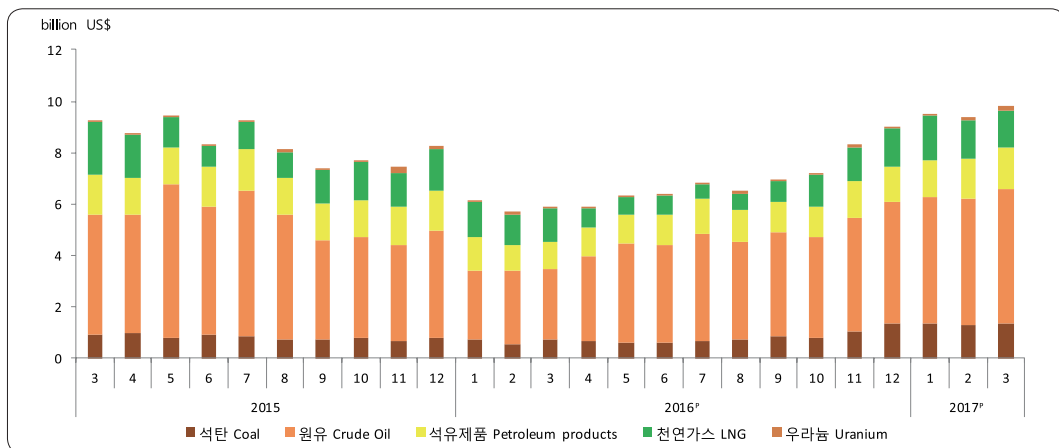


□ 에너지원별 수입액 Import value by energy source

<1990~2016^P>



<월별 Monthly>



1.3.2 에너지 수출입액

Energy export and import value

		수입 Imports						수출 Exports	수입액 비중 Energy/Total import
		합계	석탄	원유	석유제품	천연가스	우라늄	석유	
		Total	Coal	Crude Oil	Petroleum products	LNG	Uranium	Petroleum	
		million US\$							%
1990		10,908	1,288	6,386	2,774	460	1	650	15.6
1991		12,754	1,600	8,134	2,451	485	84	1,451	15.6
1992		14,654	1,616	9,548	2,829	562	98	1,662	17.9
1993		15,088	1,733	9,151	3,288	781	135	1,795	18.0
1994		15,471	1,777	8,878	3,664	961	191	1,668	15.1
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 ^p		80,942	9,310	44,295	14,579	12,170	589	26,668	19.9
2015	3	9,263	919	4,660	1,546	2,066	71	3,099	24.1
	4	8,777	977	4,578	1,434	1,707	82	2,586	23.2
	5	9,404	809	5,976	1,410	1,163	45	2,825	26.1
	6	8,308	890	5,029	1,521	838	30	3,146	22.7
	7	9,188	851	5,682	1,614	1,042	0	3,056	23.8
	8	8,113	757	4,842	1,425	1,018	72	2,766	23.3
	9	7,361	732	3,851	1,440	1,295	42	2,723	21.3
	10	7,717	760	3,929	1,432	1,500	95	2,343	21.0
	11	7,451	636	3,778	1,471	1,335	231	2,370	21.9
	12	8,277	797	4,150	1,565	1,609	157	2,225	23.3
2016 ^p	1	6,124	728	2,698	1,278	1,403	16	1,672	19.6
	2	5,718	533	2,864	991	1,208	120	1,694	19.6
	3	5,828	707	2,788	1,029	1,289	14	1,903	17.5
	4	5,816	657	3,315	1,099	745	0	2,421	18.0
	5	6,351	615	3,848	1,143	689	56	2,181	19.2
	6	6,345	605	3,773	1,217	735	15	2,317	18.7
	7	6,797	693	4,136	1,357	586	25	2,689	20.4
	8	6,501	704	3,793	1,275	651	80	2,092	18.5
	9	6,918	830	4,042	1,221	786	39	2,397	20.4
	10	7,183	785	3,930	1,179	1,232	57	2,311	20.5
	11	8,322	1,070	4,413	1,416	1,326	97	2,395	22.3
	12	9,039	1,381	4,694	1,374	1,520	70	2,597	23.6
2017 ^p	1	9,464	1,375	4,901	1,418	1,769	0	2,798	25.2
	2	9,380	1,280	4,906	1,600	1,495	99	2,937	26.0
	3	9,798	1,328	5,241	1,650	1,428	151	3,035	23.0
2016 ^p	1-3	17,669	1,969	8,350	3,298	3,901	150	5,269	17.5
2017 ^p	1-3	28,642	3,984	15,048	4,667	4,692	250	8,769	23.0

주: 수입액은 CIF, 수출액은 FOB 기준.

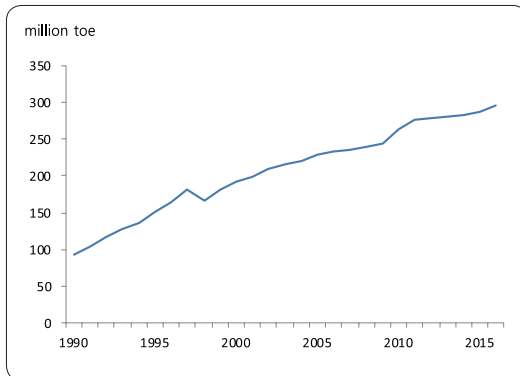
Note: Import values are based on CIF, and export values are based on FOB.

자료: 한국무역협회

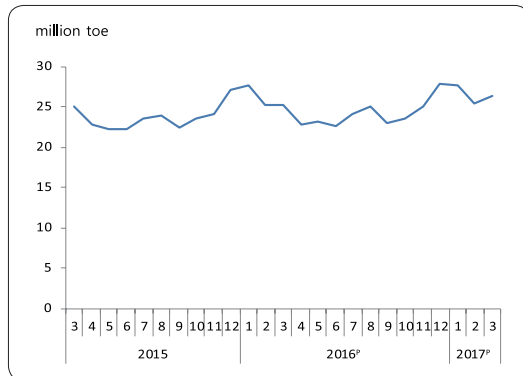
Source: Korea International Trade Association

□ 1차에너지 공급 Total primary energy supply

<1990~2016^P>

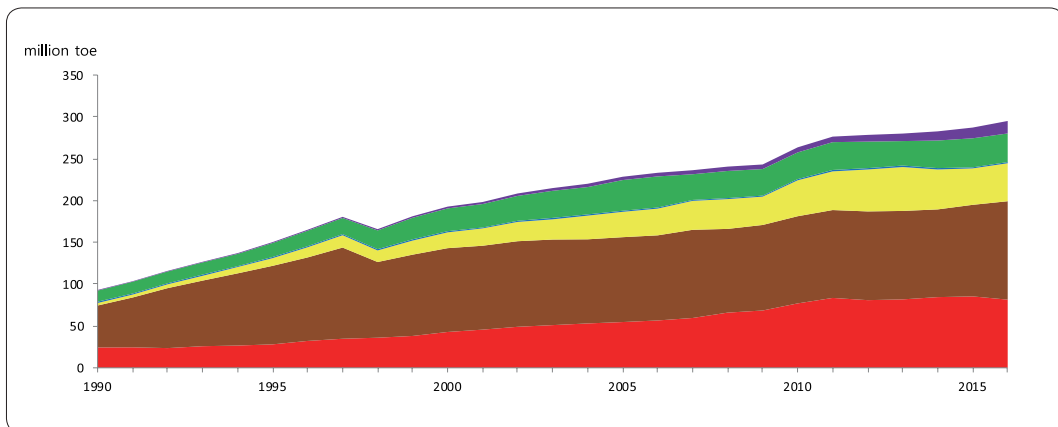


<월별 Monthly>

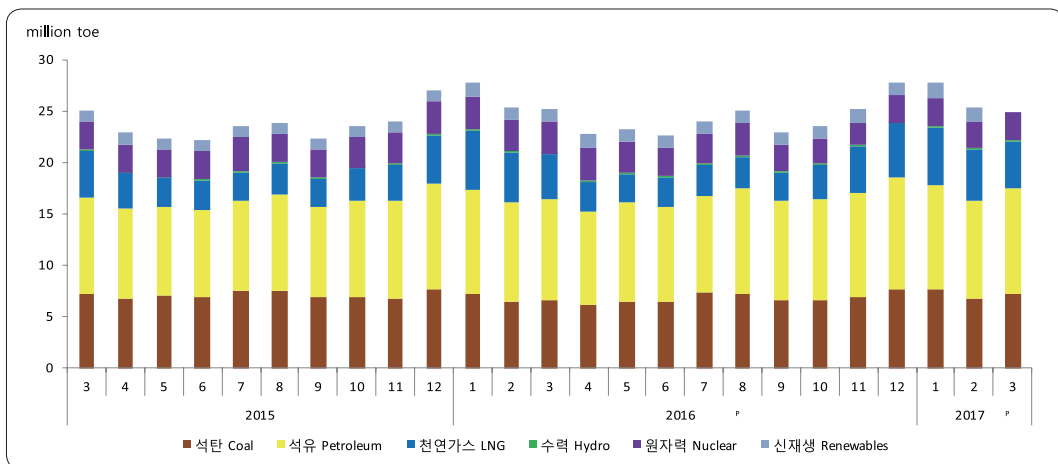


□ 에너지원별 1차에너지 공급 Primary energy supply by source

<1990~2016^P>



<월별 Monthly>



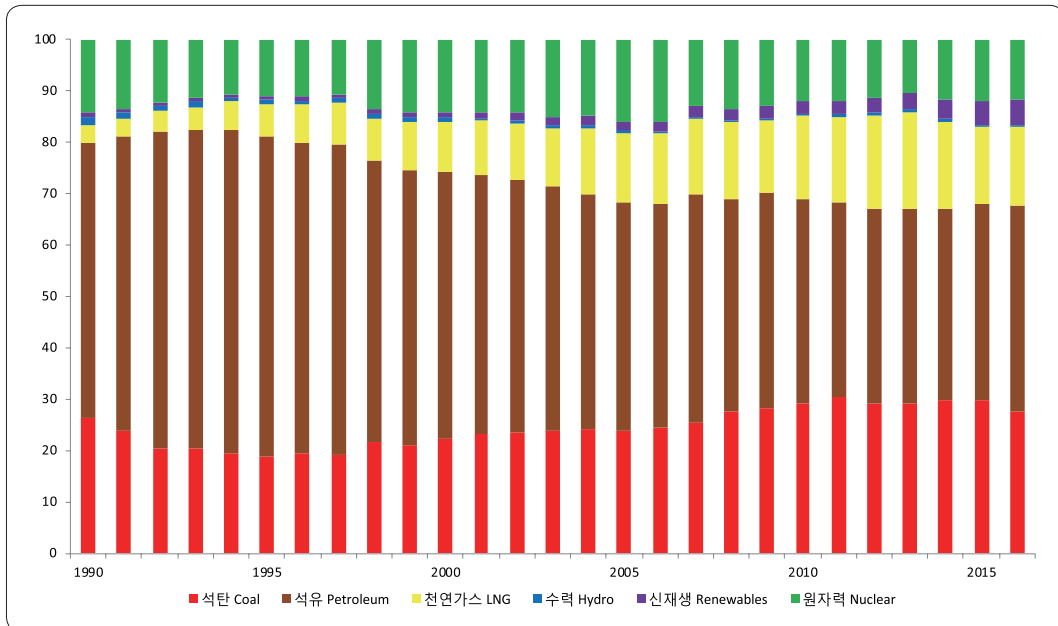
1.4.1 1차에너지 공급

Primary energy supply by source

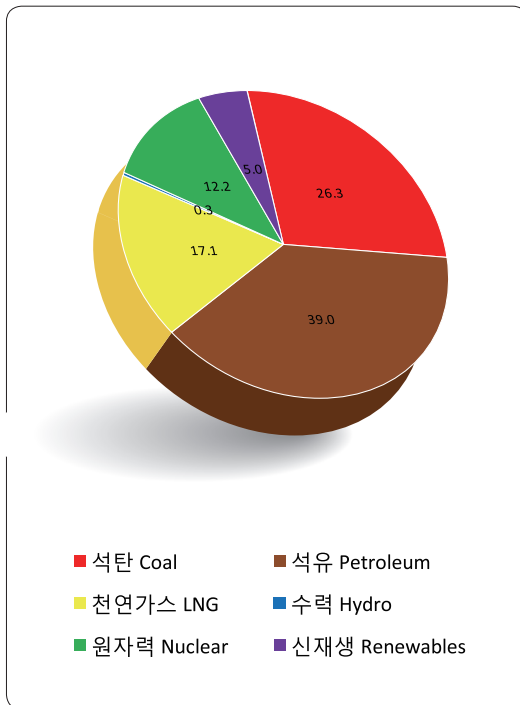
		합계 Total	석탄 Coal	석유 Petroleum	천연가스 LNG	수력 Hydro	원자력 Nuclear	신재생 Renewables
		1,000 toe						
1990		93,192	24,385	50,175	3,023	1,590	13,222	797
1991		103,619	24,535	59,627	3,503	1,263	14,078	617
1992		116,010	23,618	71,740	4,581	1,216	14,133	723
1993		126,879	25,882	78,495	5,723	1,502	14,535	742
1994		137,234	26,680	86,343	7,618	1,025	14,663	906
1995		150,437	28,091	93,955	9,213	1,369	16,757	1,051
1996		165,212	32,200	99,898	12,172	1,301	18,481	1,161
1997		180,638	34,799	109,080	14,792	1,351	19,272	1,344
1998		165,932	36,039	90,582	13,838	1,525	22,422	1,526
1999		181,363	38,155	97,270	16,849	1,517	25,766	1,806
2000		192,887	42,911	100,279	18,924	1,402	27,241	2,130
2001		198,409	45,711	100,385	20,787	1,038	28,033	2,456
2002		208,636	49,096	102,414	23,099	1,327	29,776	2,925
2003		215,066	51,116	102,380	24,194	1,722	32,415	3,241
2004		220,238	53,127	100,638	28,351	1,465	32,679	3,977
2005		228,622	54,788	101,526	30,355	1,297	36,695	3,961
2006		233,372	56,687	101,831	32,004	1,305	37,187	4,358
2007		236,454	59,654	105,494	34,663	1,084	30,731	4,828
2008		240,752	66,060	100,170	35,671	1,196	32,456	5,198
2009		243,311	68,604	102,336	33,908	1,213	31,771	5,480
2010		263,805	77,092	104,301	43,008	1,391	31,948	6,064
2011		276,636	83,640	105,146	46,284	1,684	33,265	6,618
2012		278,698	80,978	106,165	50,185	1,615	31,719	8,036
2013		280,290	81,915	105,811	52,523	1,771	29,283	8,987
2014		282,938	84,612	104,944	47,773	1,650	33,002	10,956
2015		287,479	85,473	109,566	43,613	1,223	34,765	12,839
2016 ^p		295,364	81,584	117,758	45,455	1,398	34,219	14,951
2015								
	3	25,066	7,247	9,373	4,496	111	2,754	1,085
	4	22,859	6,711	8,855	3,389	91	2,746	1,068
	5	22,299	7,090	8,517	2,889	97	2,657	1,049
	6	22,226	6,896	8,533	2,812	76	2,852	1,056
	7	23,482	7,536	8,697	2,693	147	3,342	1,067
	8	23,883	7,446	9,415	2,985	140	2,803	1,094
	9	22,341	6,880	8,831	2,744	108	2,699	1,080
	10	23,584	6,948	9,385	3,077	87	3,031	1,058
	11	24,005	6,699	9,511	3,556	70	3,124	1,045
	12	27,066	7,649	10,246	4,787	79	3,207	1,098
2016 ^p								
	1	27,764	7,177	10,154	5,757	129	3,258	1,289
	2	25,271	6,409	9,786	4,794	83	2,989	1,210
	3	25,209	6,642	9,830	4,304	83	3,081	1,269
	4	22,725	6,106	9,083	2,931	98	3,235	1,271
	5	23,191	6,445	9,720	2,708	134	2,954	1,230
	6	22,583	6,423	9,299	2,795	109	2,737	1,220
	7	24,043	7,361	9,312	3,072	190	2,862	1,246
	8	25,076	7,208	10,250	3,097	146	3,091	1,284
	9	22,984	6,657	9,545	2,758	132	2,676	1,217
	10	23,558	6,616	9,835	3,343	100	2,460	1,204
	11	25,134	6,926	10,043	4,631	93	2,214	1,227
	12	27,826	7,616	10,899	5,263	101	2,662	1,284
2017 ^p								
	1	27,775	7,707	10,138	5,593	109	2,765	1,462
	2	25,364	6,729	9,502	5,058	107	2,611	1,356
	3	26,335	7,159	10,271	4,581	105	2,780	1,440
2016 ^p 1-3		78,244	20,227	29,770	14,855	296	9,328	3,767
2017 ^p 1-3		79,473	21,595	29,911	15,232	321	8,156	4,258

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

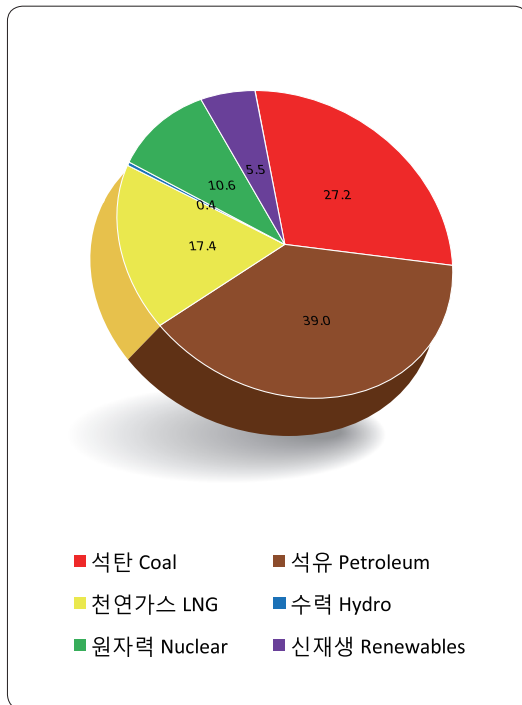
<1990~2016^P>



□ 2016년 03월 March 2016^P(%)



□ 2017년 03월 March 2017^P(%)



1.4.2 1차에너지 원별 구성비

Composition rate of primary energy supply

		석탄 Coal	석유 Petroleum	천연가스 LNG	수력 Hydro	원자력 Nuclear	신재생 Renewables
		%					
1990		26.2	53.8	3.2	1.7	14.2	0.9
1991		23.7	57.5	3.4	1.2	13.6	0.6
1992		20.4	61.8	3.9	1.0	12.2	0.6
1993		20.4	61.9	4.5	1.2	11.5	0.6
1994		19.4	62.9	5.6	0.7	10.7	0.7
1995		18.7	62.5	6.1	0.9	11.1	0.7
1996		19.5	60.5	7.4	0.8	11.2	0.7
1997		19.3	60.4	8.2	0.7	10.7	0.7
1998		21.7	54.6	8.3	0.9	13.5	0.9
1999		21.0	53.6	9.3	0.8	14.2	1.0
2000		22.2	52.0	9.8	0.7	14.1	1.1
2001		23.0	50.6	10.5	0.5	14.1	1.2
2002		23.5	49.1	11.1	0.6	14.3	1.4
2003		23.8	47.6	11.2	0.8	15.1	1.5
2004		24.1	45.7	12.9	0.7	14.8	1.8
2005		24.0	44.4	13.3	0.6	16.1	1.7
2006		24.3	43.6	13.7	0.6	15.9	1.9
2007		25.2	44.6	14.7	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	13.1	2.3
2010		29.2	39.5	16.3	0.5	12.1	2.3
2011		30.2	38.0	16.7	0.6	12.0	2.4
2012		29.1	38.1	18.0	0.6	11.4	2.9
2013		29.2	37.8	18.7	0.6	10.4	3.2
2014		29.9	37.1	16.9	0.6	11.7	3.9
2015		29.7	38.1	15.2	0.4	12.1	4.5
2016 ^p		27.6	39.9	15.4	0.5	11.6	5.1
2015	3	28.9	37.4	17.9	0.4	11.0	4.3
	4	29.4	38.7	14.8	0.4	12.0	4.7
	5	31.8	38.2	13.0	0.4	11.9	4.7
	6	31.0	38.4	12.7	0.3	12.8	4.8
	7	32.1	37.0	11.5	0.6	14.2	4.5
	8	31.2	39.4	12.5	0.6	11.7	4.6
	9	30.8	39.5	12.3	0.5	12.1	4.8
	10	29.5	39.8	13.0	0.4	12.9	4.5
	11	27.9	39.6	14.8	0.3	13.0	4.4
	12	28.3	37.9	17.7	0.3	11.8	4.1
2016 ^p	1	25.8	36.6	20.7	0.5	11.7	4.6
	2	25.4	38.7	19.0	0.3	11.8	4.8
	3	26.3	39.0	17.1	0.3	12.2	5.0
	4	26.9	40.0	12.9	0.4	14.2	5.6
	5	27.8	41.9	11.7	0.6	12.7	5.3
	6	28.4	41.2	12.4	0.5	12.1	5.4
	7	30.6	38.7	12.8	0.8	11.9	5.2
	8	28.7	40.9	12.4	0.6	12.3	5.1
	9	29.0	41.5	12.0	0.6	11.6	5.3
	10	28.1	41.7	14.2	0.4	10.4	5.1
	11	27.6	40.0	18.4	0.4	8.8	4.9
	12	27.4	39.2	18.9	0.4	9.6	4.6
2017 ^p	1	27.7	36.5	20.1	0.4	10.0	5.3
	2	26.5	37.5	19.9	0.4	10.3	5.3
	3	27.2	39.0	17.4	0.4	10.6	5.5
2016 ^p	1-3	25.9	38.0	19.0	0.4	11.9	4.8
2017 ^p	1-3	27.2	37.6	19.2	0.4	10.3	5.4

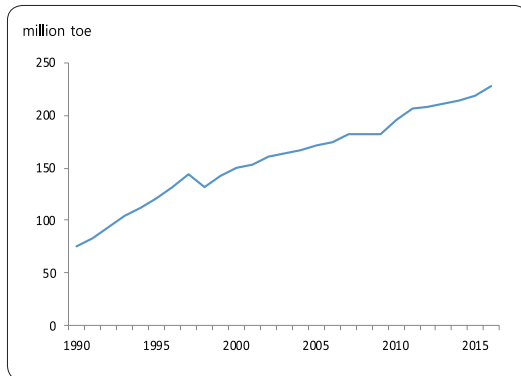
2. 최종에너지 소비

Final energy consumption

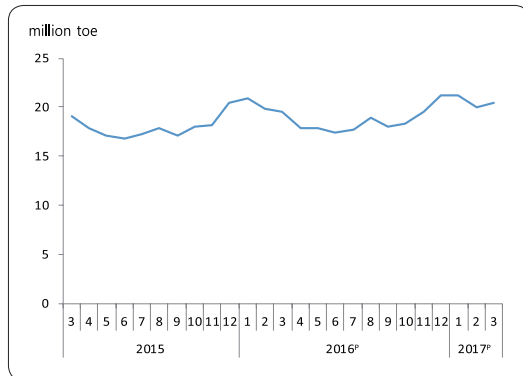


□ 최종에너지 소비 Total final energy consumption

<1990~2016^P>

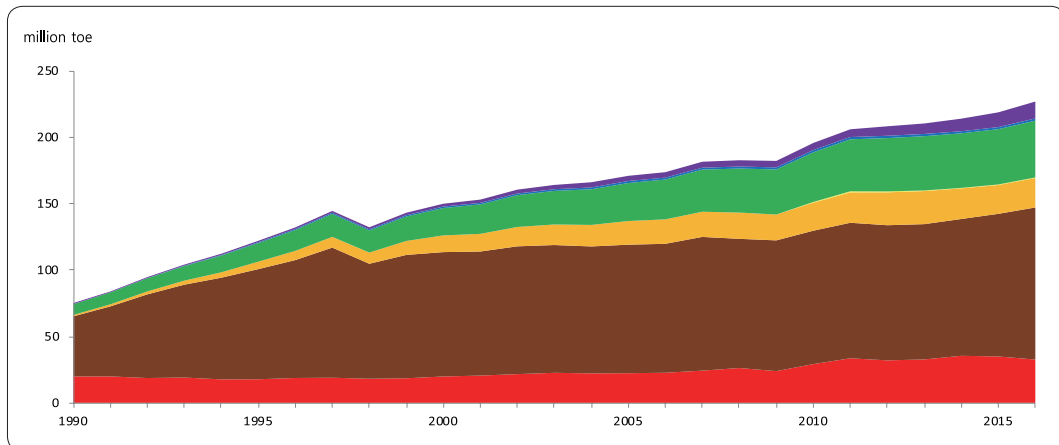


<월별 Monthly>

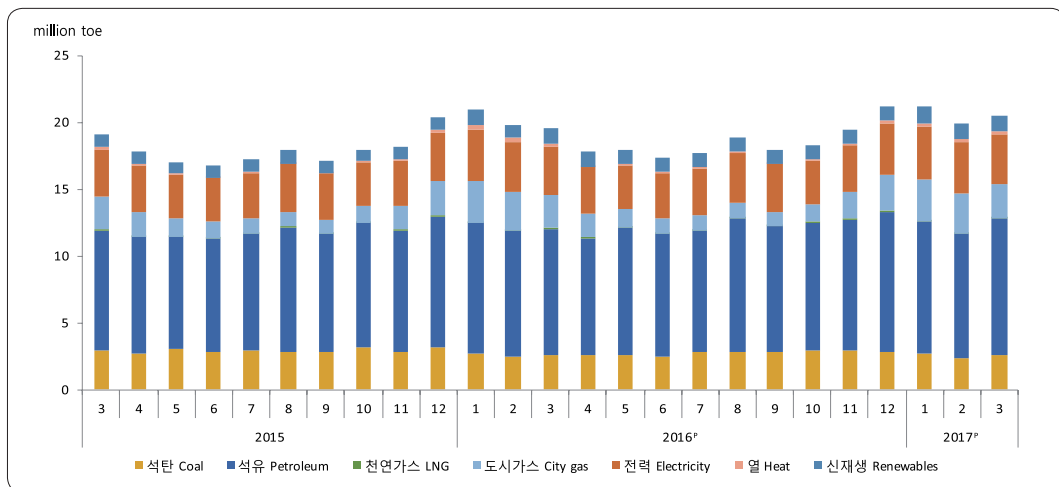


□ 에너지원별 최종에너지 소비 Final energy consumption by source

<1990~2016^P>



<월별 Monthly>



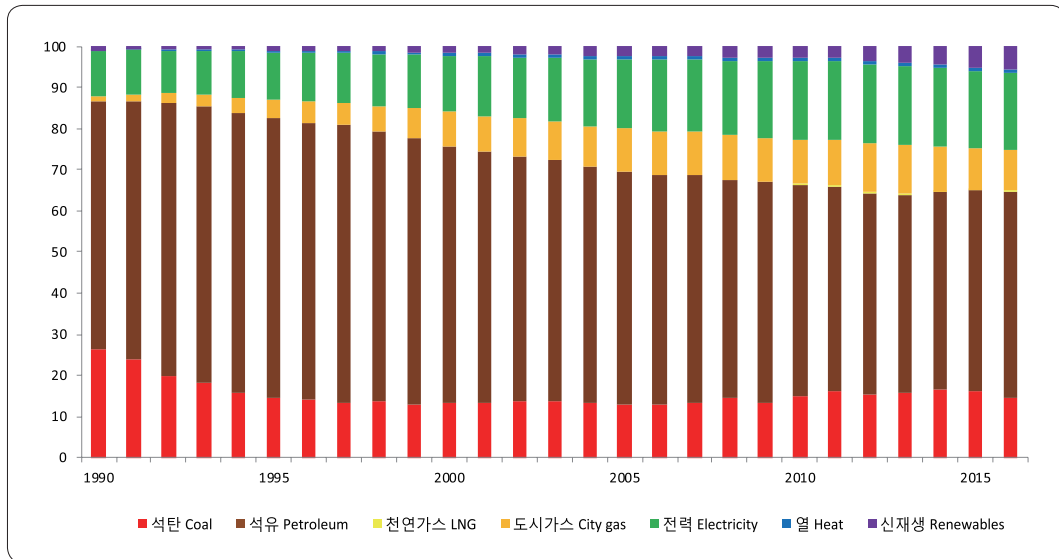
2.1.1 최종에너지 원별 소비

Final energy consumption by source

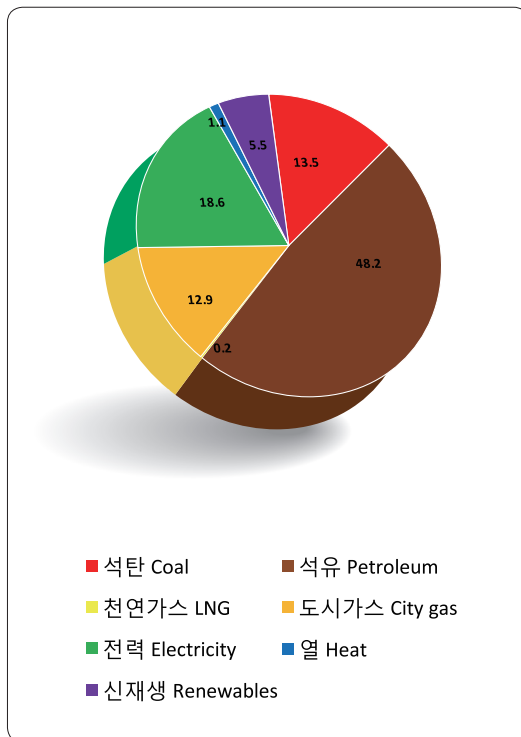
		합계 Total	석탄 Coal	석유 Petroleum	천연가스 LNG	도시가스 City gas	전력 Electricity	열 Heat	신재생 Renewables
		1,000 toe							
1990		75,107	19,855	45,252	-	1,011	8,117	75	797
1991		83,803	19,915	52,675	-	1,540	8,976	80	617
1992		94,623	18,688	62,939	-	2,219	9,911	143	723
1993		104,048	19,058	69,876	-	3,027	10,985	360	742
1994		112,206	17,670	76,511	-	4,057	12,602	460	906
1995		121,962	17,758	82,876	-	5,594	14,041	641	1,051
1996		132,033	18,718	88,714	-	6,937	15,692	811	1,161
1997		144,432	18,918	97,901	-	8,093	17,267	909	1,344
1998		132,128	18,151	86,526	-	8,425	16,638	861	1,526
1999		143,060	18,498	92,821	-	10,513	18,422	1,000	1,806
2000		149,852	19,847	93,596	0	12,561	20,600	1,119	2,130
2001		152,950	20,532	93,356	-	13,290	22,165	1,150	2,456
2002		160,451	21,629	96,159	-	14,567	23,947	1,223	2,925
2003		163,995	22,610	96,155	-	15,470	25,250	1,300	3,210
2004		166,009	22,194	95,513	-	16,191	26,840	1,343	3,928
2005		170,854	22,311	96,718	-	17,811	28,588	1,530	3,896
2006		173,584	22,660	97,037	-	18,379	29,990	1,425	4,092
2007		181,455	24,249	100,622	-	18,955	31,700	1,438	4,491
2008		182,576	26,219	97,217	-	19,765	33,116	1,512	4,747
2009		182,066	23,895	98,369	-	19,459	33,925	1,551	4,867
2010		195,587	29,164	100,381	559	21,081	37,338	1,718	5,346
2011		205,863	33,544	101,976	801	22,871	39,136	1,702	5,834
2012		208,120	31,964	101,710	717	24,728	40,127	1,751	7,124
2013		210,247	32,679	101,809	467	24,878	40,837	1,695	7,883
2014		213,870	35,412	102,957	354	23,041	41,073	1,567	9,466
2015		218,608	34,921	107,322	437	21,678	41,594	1,559	11,096
2016 ^p		226,737	32,595	114,427	425	22,167	42,745	1,709	12,669
2015									
	3	19,109	2,920	9,008	36	2,485	3,515	206	938
	4	17,798	2,775	8,658	34	1,843	3,447	112	928
	5	17,062	3,034	8,395	38	1,377	3,259	58	901
	6	16,808	2,861	8,466	35	1,195	3,298	40	912
	7	17,181	2,986	8,650	36	1,165	3,388	37	919
	8	17,883	2,844	9,323	38	1,099	3,607	34	940
	9	17,100	2,867	8,743	34	1,078	3,416	35	926
	10	17,982	3,216	9,259	34	1,289	3,222	67	895
	11	18,175	2,804	9,137	36	1,790	3,344	153	911
	12	20,407	3,135	9,857	40	2,569	3,594	264	949
2016 ^p									
	1	20,942	2,734	9,719	40	3,140	3,840	350	1,119
	2	19,830	2,457	9,400	38	2,886	3,747	283	1,019
	3	19,502	2,632	9,406	34	2,511	3,633	208	1,078
	4	17,783	2,568	8,796	33	1,759	3,451	101	1,075
	5	17,899	2,623	9,497	39	1,357	3,288	60	1,035
	6	17,327	2,505	9,110	36	1,179	3,411	43	1,043
	7	17,670	2,856	9,036	35	1,153	3,491	44	1,055
	8	18,858	2,781	10,049	36	1,072	3,819	38	1,065
	9	17,957	2,824	9,419	34	1,046	3,544	37	1,053
	10	18,265	2,915	9,608	33	1,303	3,315	72	1,019
	11	19,477	2,913	9,830	34	2,017	3,462	186	1,034
	12	21,228	2,787	10,557	34	2,745	3,744	286	1,074
2017 ^p									
	1	21,196	2,719	9,859	39	3,127	3,887	333	1,232
	2	19,917	2,372	9,253	32	3,033	3,820	287	1,120
	3	20,484	2,649	10,170	35	2,572	3,660	217	1,181
2016 ^p 1-3		60,274	7,823	28,525	113	8,537	11,220	842	3,216
2017 ^p 1-3		61,596	7,740	29,282	106	8,731	11,367	837	3,532

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

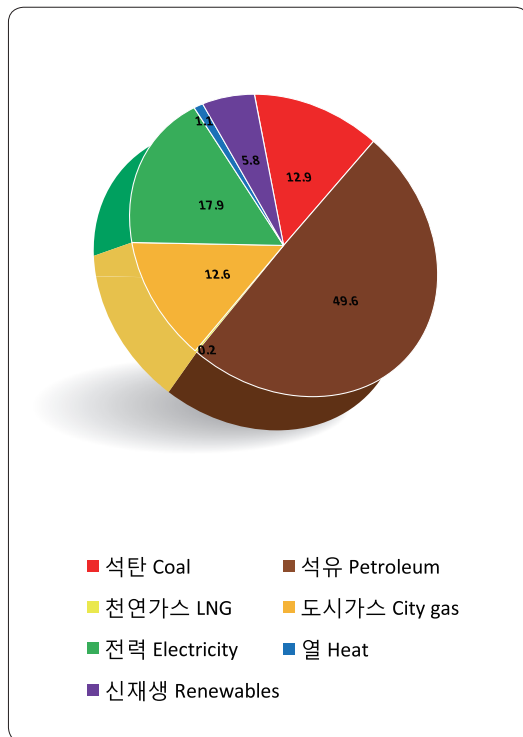
<1990~2016^P>



□ 2016년 03월 March 2016^P(%)



□ 2017년 03월 March 2017^P(%)



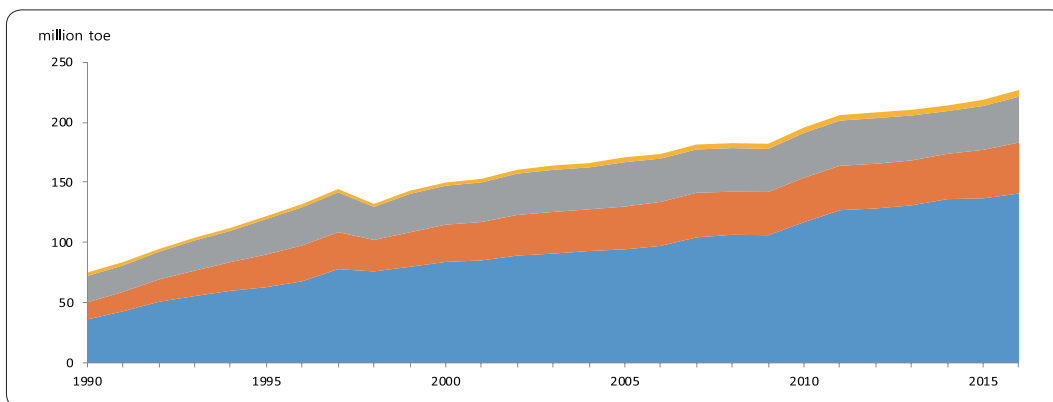
2.1.2 최종에너지 원별 구성비

Composition rate of final energy consumption

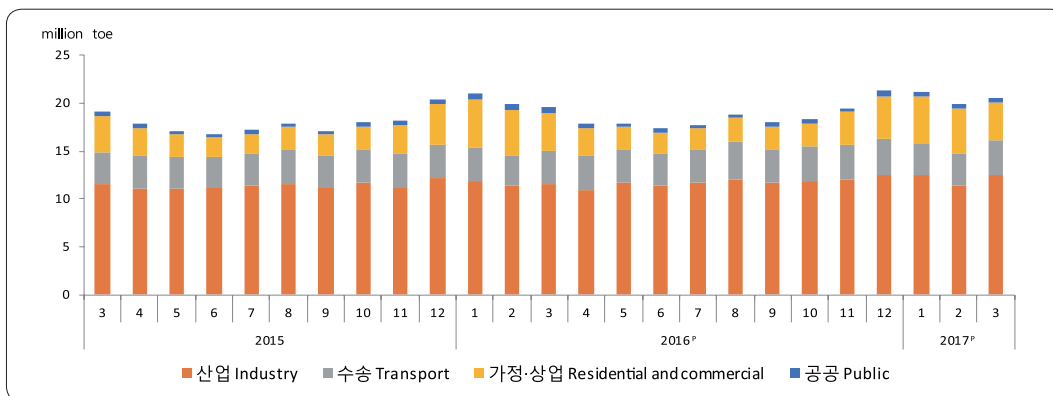
		석탄 Coal	석유 Petroleum	천연가스 LNG	도시가스 City gas	전력 Electricity	열 Heat	신재생 Renewables
		%						
1990		26.4	60.3	0.0	1.3	10.8	0.1	1.1
1991		23.8	62.9	0.0	1.8	10.7	0.1	0.7
1992		19.8	66.5	0.0	2.3	10.5	0.2	0.8
1993		18.3	67.2	0.0	2.9	10.6	0.3	0.7
1994		15.7	68.2	0.0	3.6	11.2	0.4	0.8
1995		14.6	68.0	0.0	4.6	11.5	0.5	0.9
1996		14.2	67.2	0.0	5.3	11.9	0.6	0.9
1997		13.1	67.8	0.0	5.6	12.0	0.6	0.9
1998		13.7	65.5	0.0	6.4	12.6	0.7	1.2
1999		12.9	64.9	0.0	7.3	12.9	0.7	1.3
2000		13.2	62.5	0.0	8.4	13.7	0.7	1.4
2001		13.4	61.0	0.0	8.7	14.5	0.8	1.6
2002		13.5	59.9	0.0	9.1	14.9	0.8	1.8
2003		13.8	58.6	0.0	9.4	15.4	0.8	2.0
2004		13.4	57.5	0.0	9.8	16.2	0.8	2.4
2005		13.1	56.6	0.0	10.4	16.7	0.9	2.3
2006		13.1	55.9	0.0	10.6	17.3	0.8	2.4
2007		13.4	55.5	0.0	10.4	17.5	0.8	2.5
2008		14.4	53.2	0.0	10.8	18.1	0.8	2.6
2009		13.1	54.0	0.0	10.7	18.6	0.9	2.7
2010		14.9	51.3	0.3	10.8	19.1	0.9	2.7
2011		16.3	49.5	0.4	11.1	19.0	0.8	2.8
2012		15.4	48.9	0.3	11.9	19.3	0.8	3.4
2013		15.5	48.4	0.2	11.8	19.4	0.8	3.7
2014		16.6	48.1	0.2	10.8	19.2	0.7	4.4
2015		16.0	49.1	0.2	9.9	19.0	0.7	5.1
2016 ^p		14.4	50.5	0.2	9.8	18.9	0.8	5.6
2015	3	15.3	47.1	0.2	13.0	18.4	1.1	4.9
	4	15.6	48.6	0.2	10.4	19.4	0.6	5.2
	5	17.8	49.2	0.2	8.1	19.1	0.3	5.3
	6	17.0	50.4	0.2	7.1	19.6	0.2	5.4
	7	17.4	50.3	0.2	6.8	19.7	0.2	5.3
	8	15.9	52.1	0.2	6.1	20.2	0.2	5.3
	9	16.8	51.1	0.2	6.3	20.0	0.2	5.4
	10	17.9	51.5	0.2	7.2	17.9	0.4	5.0
	11	15.4	50.3	0.2	9.8	18.4	0.8	5.0
	12	15.4	48.3	0.2	12.6	17.6	1.3	4.6
2016 ^p	1	13.1	46.4	0.2	15.0	18.3	1.7	5.3
	2	12.4	47.4	0.2	14.6	18.9	1.4	5.1
	3	13.5	48.2	0.2	12.9	18.6	1.1	5.5
	4	14.4	49.5	0.2	9.9	19.4	0.6	6.0
	5	14.7	53.1	0.2	7.6	18.4	0.3	5.8
	6	14.5	52.6	0.2	6.8	19.7	0.3	6.0
	7	16.2	51.1	0.2	6.5	19.8	0.3	6.0
	8	14.7	53.3	0.2	5.7	20.3	0.2	5.6
	9	15.7	52.5	0.2	5.8	19.7	0.2	5.9
	10	16.0	52.6	0.2	7.1	18.2	0.4	5.6
	11	15.0	50.5	0.2	10.4	17.8	1.0	5.3
	12	13.1	49.7	0.2	12.9	17.6	1.3	5.1
2017 ^p	1	12.8	46.5	0.2	14.8	18.3	1.6	5.8
	2	11.9	46.5	0.2	15.2	19.2	1.4	5.6
	3	12.9	49.6	0.2	12.6	17.9	1.1	5.8
2016 ^p	1-3	13.0	47.3	0.2	14.2	18.6	1.4	5.3
2017 ^p	1-3	12.6	47.5	0.2	14.2	18.5	1.4	5.7

□ 최종에너지 부문별 소비 Final energy consumption by sector

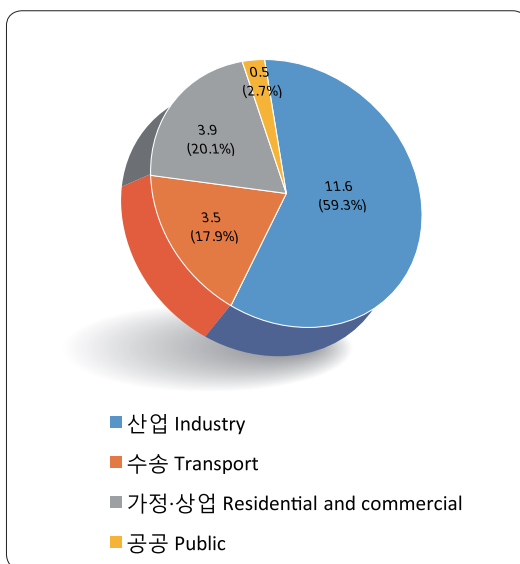
<1990~2016^P>



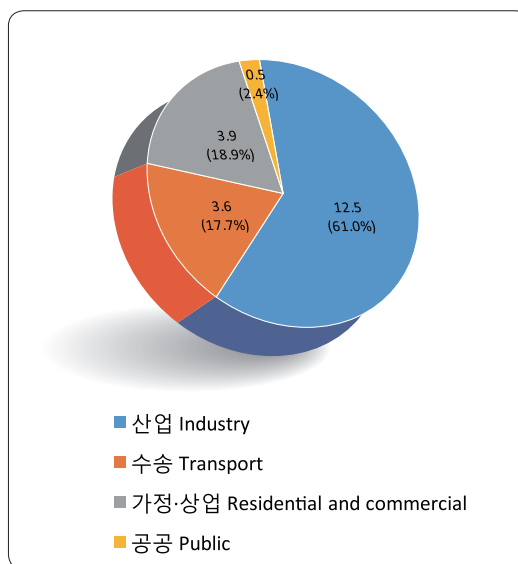
<월별 Monthly>



□ 2016년 03월 March 2016^P (%)



□ 2017년 03월 March 2017^P (%)



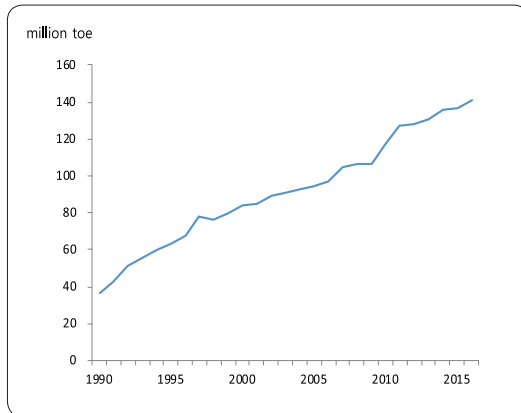
2.2.1 최종에너지 부문별 소비

Final energy consumption by sector

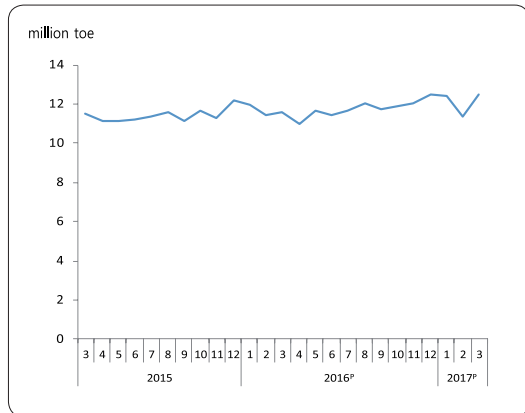
		합계 Total	산업 Industry	수송 Transport	가정·상업 Residential and commercial	공공 Public
		1,000 toe				
1990		75,107	36,150	14,173	21,971	2,812
1991		83,803	42,914	16,156	21,919	2,813
1992		94,623	50,825	18,531	23,008	2,259
1993		104,048	55,591	21,119	25,042	2,296
1994		112,206	59,937	23,860	25,941	2,467
1995		121,962	62,946	27,148	29,451	2,416
1996		132,033	67,868	29,792	31,713	2,659
1997		144,432	77,908	30,738	33,071	2,715
1998		132,128	76,039	26,184	27,418	2,487
1999		143,060	79,858	28,625	31,929	2,648
2000		149,852	83,912	30,945	32,370	2,625
2001		152,950	85,158	31,909	32,893	2,989
2002		160,451	89,197	33,763	34,299	3,191
2003		163,995	90,805	34,632	34,964	3,593
2004		166,009	92,992	34,615	34,807	3,595
2005		170,854	94,366	35,559	36,861	4,068
2006		173,584	97,235	36,527	35,986	3,836
2007		181,455	104,327	37,068	35,916	4,143
2008		182,576	106,458	35,793	36,225	4,100
2009		182,066	106,119	35,930	35,722	4,295
2010		195,587	116,910	36,938	37,255	4,483
2011		205,863	126,886	36,875	37,542	4,560
2012		208,120	128,324	37,143	37,884	4,769
2013		210,247	130,906	37,330	37,341	4,670
2014		213,870	136,086	37,628	35,476	4,679
2015		218,608	136,724	40,292	36,439	5,152
2016 ^p		226,737	140,717	42,345	38,133	5,542
2015	3	19,109	11,501	3,398	3,741	469
	4	17,798	11,099	3,388	2,896	416
	5	17,062	11,096	3,341	2,256	368
	6	16,808	11,203	3,180	2,038	387
	7	17,181	11,375	3,346	2,061	399
	8	17,883	11,610	3,584	2,282	408
	9	17,100	11,152	3,377	2,171	400
	10	17,982	11,641	3,530	2,422	389
	11	18,175	11,250	3,402	3,087	436
	12	20,407	12,208	3,486	4,212	500
2016 ^p	1	20,942	11,925	3,429	5,041	546
	2	19,830	11,439	3,151	4,714	526
	3	19,502	11,557	3,492	3,925	527
	4	17,783	10,959	3,539	2,848	437
	5	17,899	11,636	3,588	2,291	384
	6	17,327	11,394	3,363	2,096	474
	7	17,670	11,671	3,474	2,154	371
	8	18,858	12,015	3,939	2,448	456
	9	17,957	11,699	3,535	2,303	421
	10	18,265	11,915	3,526	2,416	408
	11	19,477	12,048	3,561	3,413	455
	12	21,228	12,460	3,748	4,483	538
2017 ^p	1	21,196	12,444	3,283	4,933	534
	2	19,917	11,335	3,294	4,761	527
	3	20,484	12,487	3,617	3,879	501
2016 ^p	1-3	40,772	23,365	6,581	9,755	1,072
2017 ^p	1-3	41,112	23,779	6,577	9,694	1,061

□ 산업 Industry

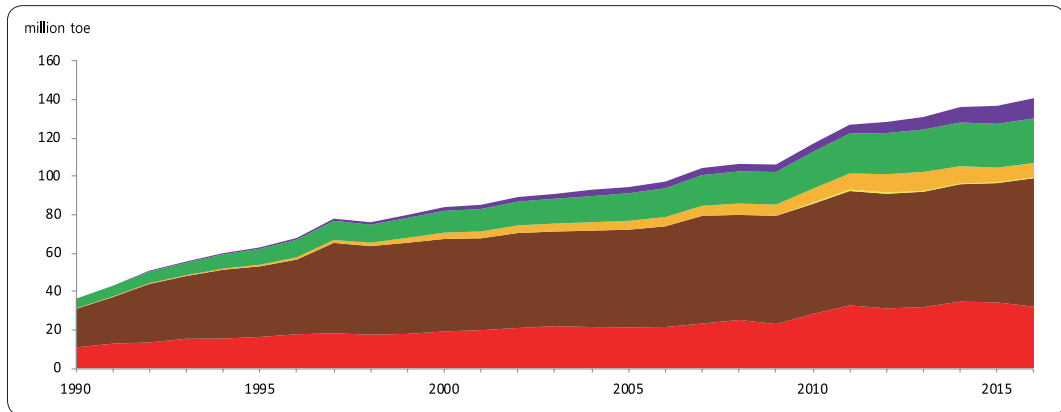
<1990~2016^P>



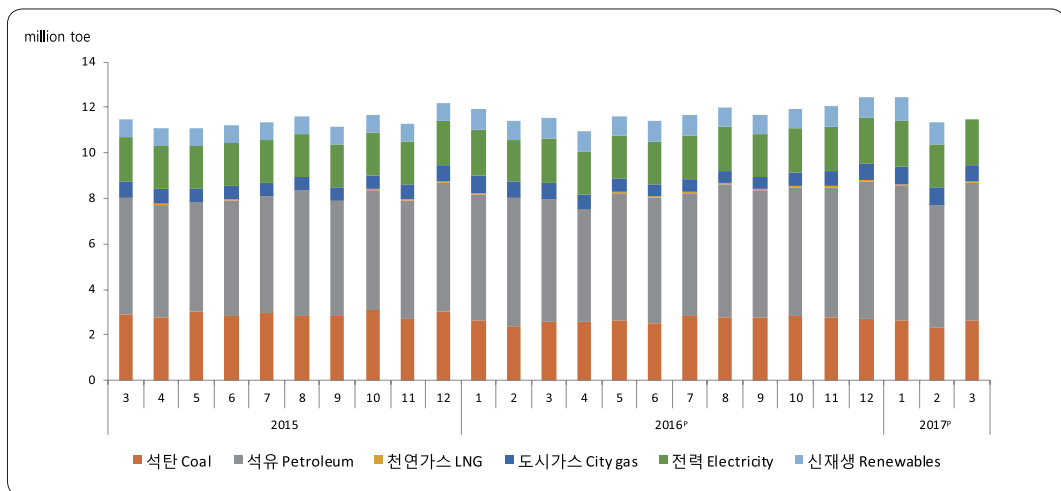
<월별 Monthly>



<1990~2016^P>



<월별 Monthly>



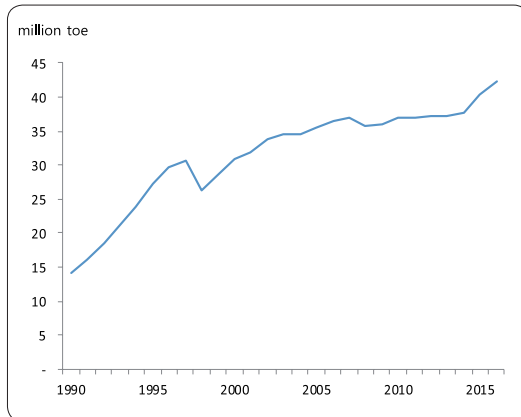
2.2.2 산업

Industry

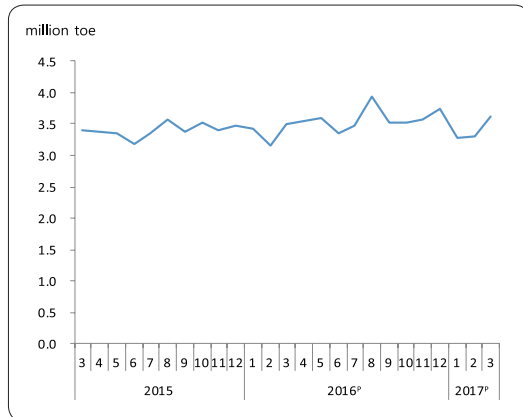
		합계 Total	석탄 Coal	석유 Petroleum	천연가스 LNG	도시가스 City gas	전력 Electricity	신재생 Renewables
		1,000 toe						
1990		36,150	10,806	20,014	-	235	5,095	0
1991		42,914	12,745	24,251	-	313	5,606	0
1992		50,825	13,388	30,514	-	377	6,063	482
1993		55,591	15,327	32,654	-	460	6,581	569
1994		59,937	15,403	35,881	-	600	7,426	626
1995		62,946	16,244	36,810	-	863	8,293	736
1996		67,868	17,668	38,913	-	1,196	9,179	912
1997		77,908	18,139	47,141	-	1,496	10,009	1,123
1998		76,039	17,448	46,133	-	1,812	9,359	1,287
1999		79,858	17,845	47,521	-	2,530	10,394	1,568
2000		83,912	19,129	48,193	0	3,308	11,374	1,908
2001		85,158	19,806	47,848	-	3,612	11,678	2,215
2002		89,197	20,932	49,499	-	3,984	12,423	2,359
2003		90,805	21,888	49,304	-	4,177	12,933	2,503
2004		92,992	21,420	50,236	-	4,382	13,617	3,337
2005		94,366	21,237	50,905	-	4,656	14,346	3,222
2006		97,235	21,434	52,474	-	4,847	15,021	3,459
2007		104,327	23,235	56,150	-	5,225	16,018	3,699
2008		106,458	25,130	54,745	-	5,933	16,738	3,912
2009		106,119	22,955	56,391	-	5,891	17,006	3,876
2010		116,910	28,264	57,351	559	7,329	19,193	4,215
2011		126,886	32,673	59,635	801	8,383	20,830	4,564
2012		128,324	31,132	59,748	717	9,501	21,426	5,800
2013		130,906	31,807	60,114	467	9,903	22,088	6,527
2014		136,086	34,666	61,188	354	9,050	22,757	8,070
2015		136,724	34,249	62,186	437	7,644	22,844	9,364
2016 ^p		140,717	32,024	66,986	425	7,503	23,218	10,561
2015								
	3	11,501	2,870	5,151	36	716	1,935	793
	4	11,099	2,749	4,965	34	645	1,919	787
	5	11,096	3,022	4,788	38	599	1,879	770
	6	11,203	2,851	5,066	35	593	1,885	773
	7	11,375	2,979	5,091	36	588	1,901	779
	8	11,610	2,831	5,515	38	544	1,903	780
	9	11,152	2,820	5,080	34	552	1,891	775
	10	11,641	3,102	5,278	34	605	1,860	762
	11	11,250	2,679	5,229	36	646	1,886	773
	12	12,208	3,019	5,694	40	716	1,944	797
2016 ^p								
	1	11,925	2,656	5,537	40	765	1,995	932
	2	11,439	2,400	5,620	38	673	1,865	844
	3	11,557	2,590	5,369	34	697	1,972	895
	4	10,959	2,550	4,947	33	619	1,923	887
	5	11,636	2,612	5,649	39	580	1,888	868
	6	11,394	2,495	5,541	36	557	1,893	872
	7	11,671	2,850	5,402	35	548	1,958	879
	8	12,015	2,765	5,876	36	507	1,952	880
	9	11,699	2,782	5,597	34	520	1,891	874
	10	11,915	2,826	5,678	33	613	1,905	860
	11	12,048	2,798	5,706	34	689	1,949	872
	12	12,460	2,699	6,064	34	736	2,028	899
2017 ^p								
	1	12,444	2,662	5,909	39	774	2,023	1,038
	2	11,335	2,321	5,364	32	748	1,930	940
	3	12,487	2,613	6,069	35	752	2,021	996
2016 ^p 1-3		34,922	7,647	16,526	113	2,135	5,831	2,670
2017 ^p 1-3		36,266	7,596	17,342	106	2,275	5,974	2,974

□ 수송 Transportation

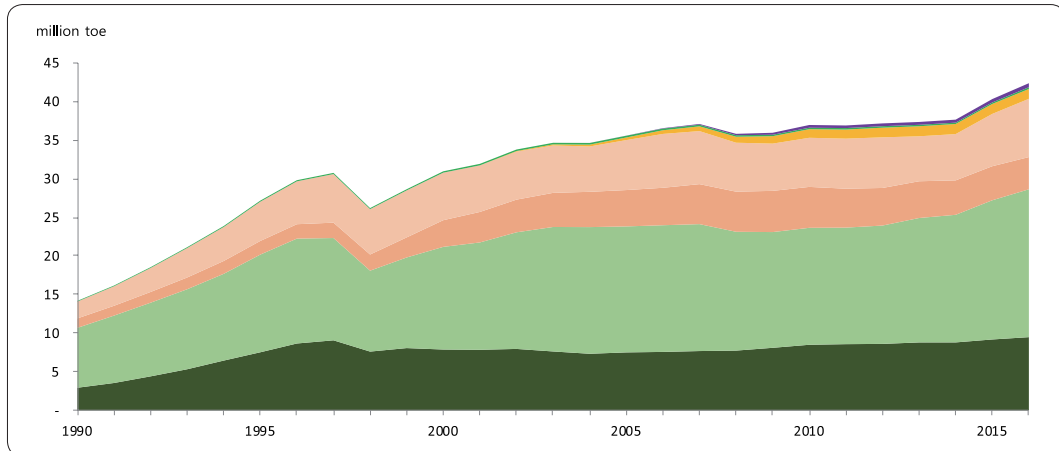
<1990~2016^P>



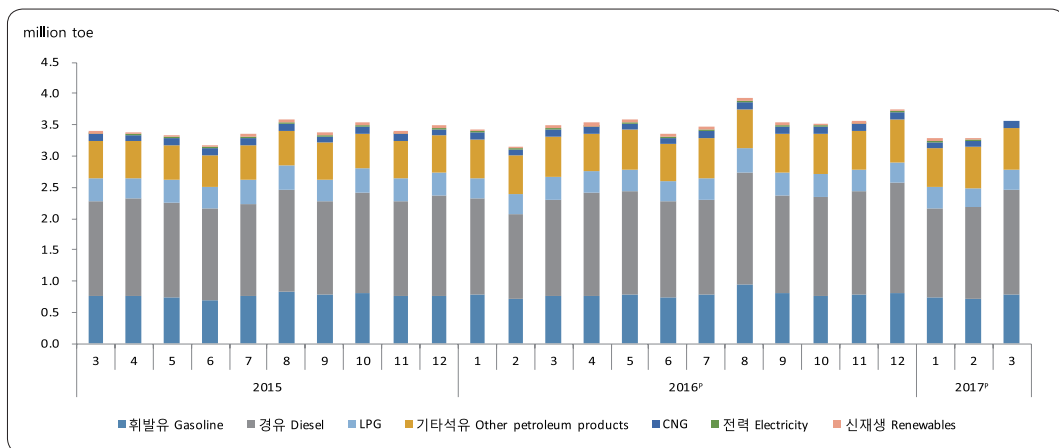
<월별 Monthly>



<1990~2016^P>



<월별 Monthly>



2.2.3 수송

Transportation

		합계 Total	휘발유 Gasoline	경유 Diesel	LPG	CNG	전력 Electricity	신재생 Renewables
		1,000 toe						
1990		14,173	2,936	7,748	1,222	-	87	-
1991		16,156	3,551	8,717	1,270	-	94	-
1992		18,531	4,410	9,527	1,390	-	101	-
1993		21,119	5,329	10,351	1,519	-	108	-
1994		23,860	6,452	11,224	1,663	-	124	-
1995		27,148	7,527	12,640	1,765	-	138	-
1996		29,792	8,664	13,573	1,861	-	145	-
1997		30,738	9,074	13,235	1,990	-	151	-
1998		26,184	7,618	10,470	2,090	-	136	-
1999		28,625	8,070	11,725	2,599	-	149	-
2000		30,945	7,883	13,284	3,453	-	175	-
2001		31,909	7,848	13,892	3,946	7	194	-
2002		33,763	7,961	15,089	4,229	80	195	-
2003		34,632	7,634	16,106	4,415	146	200	-
2004		34,615	7,335	16,389	4,566	237	213	5
2005		35,559	7,512	16,301	4,704	339	224	13
2006		36,527	7,574	16,393	4,844	475	218	53
2007		37,068	7,686	16,423	5,174	615	209	96
2008		35,793	7,745	15,375	5,191	777	196	178
2009		35,930	8,105	14,976	5,332	960	187	254
2010		36,938	8,498	15,134	5,294	1,112	188	357
2011		36,875	8,578	15,080	5,036	1,174	193	336
2012		37,143	8,612	15,314	4,863	1,248	194	360
2013		37,330	8,802	16,100	4,755	1,299	186	369
2014		37,628	8,805	16,511	4,455	1,307	172	388
2015		40,292	9,186	18,012	4,405	1,288	191	441
2016 ^p		42,345	9,485	19,132	4,169	1,269	231	520
2015	3	3,398	774	1,511	372	108	15	34
	4	3,388	760	1,561	337	106	14	36
	5	3,341	753	1,495	384	108	14	36
	6	3,180	703	1,462	337	107	16	39
	7	3,346	775	1,450	397	114	17	34
	8	3,584	845	1,623	391	112	22	47
	9	3,377	794	1,482	359	107	14	45
	10	3,530	800	1,627	379	109	15	38
	11	3,402	757	1,523	368	105	15	35
	12	3,486	772	1,603	361	109	17	35
2016 ^p	1	3,429	782	1,535	327	104	20	33
	2	3,151	726	1,348	326	97	20	33
	3	3,492	760	1,539	360	106	19	48
	4	3,539	774	1,652	338	103	17	58
	5	3,588	791	1,640	363	106	18	50
	6	3,363	746	1,532	329	108	18	48
	7	3,474	789	1,508	358	112	20	46
	8	3,939	941	1,799	383	112	23	47
	9	3,535	809	1,569	358	103	20	47
	10	3,526	766	1,593	353	107	18	42
	11	3,561	783	1,664	341	104	18	36
	12	3,748	819	1,752	334	107	19	32
2017 ^p	1	3,283	732	1,426	341	101	21	35
	2	3,294	713	1,475	303	95	20	33
	3	3,617	793	1,674	314	105	18	44
2016 ^p	1-3	10,073	2,268	4,423	1,013	307	59	114
2017 ^p	1-3	10,194	2,238	4,574	958	301	59	112

주: 합계에는 항공유, 중유 및 기타 석유제품 포함.

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

2.2.4 가정·상업

		합계 Total		석탄 Coal		석유 Petroleum		도시가스 City gas	
		가정 Residential	상업 Commercial	가정 Residential	상업 Commercial	가정 Residential	상업 Commercial	가정 Residential	상업 Commercial
		1,000 toe							
1990		16,766	5,205	9,027	-	4,960	3,916	455	322
1991		16,345	5,574	7,170	-	6,081	4,080	810	350
1992		16,428	6,580	5,288	-	7,607	4,798	1,314	446
1993		17,117	7,924	3,731	-	8,811	5,858	2,016	434
1994		17,402	8,539	2,267	-	9,453	5,923	2,769	544
1995		19,554	9,897	1,514	-	11,016	6,616	3,767	839
1996		21,344	10,369	1,050	-	12,200	6,423	4,515	1,073
1997		21,245	11,826	779	-	11,408	7,312	5,297	1,139
1998		17,407	10,011	703	-	7,571	5,558	5,341	1,112
1999		20,276	11,653	653	-	9,154	6,400	6,409	1,374
2000		21,401	10,969	718	-	8,994	4,499	7,353	1,671
2001		21,673	11,220	727	-	8,889	3,585	7,526	1,885
2002		22,508	11,791	697	0	8,623	3,332	8,109	2,132
2003		22,591	12,374	722	-	8,040	3,116	8,530	2,359
2004		22,788	12,019	775	-	7,736	2,037	8,636	2,657
2005		22,500	14,361	1,074	-	6,124	3,313	9,524	2,979
2006		21,435	14,551	1,226	0	4,657	2,857	9,685	3,173
2007		21,067	14,849	1,014	-	4,318	2,731	9,723	3,108
2008		21,132	15,093	1,088	-	4,167	2,487	9,624	3,139
2009		20,537	15,185	940	-	3,860	2,327	9,267	3,065
2010		21,185	16,070	901	-	4,053	2,397	9,366	3,123
2011		21,621	15,921	871	-	3,735	2,194	10,125	3,076
2012		21,318	16,567	832	-	3,272	2,091	10,109	3,688
2013		20,910	16,432	872	-	3,075	1,917	9,849	3,730
2014		19,734	15,742	745	-	2,965	1,736	9,124	3,476
2015		20,074	16,365	672	-	3,186	2,127	9,192	3,469
2016 ^a		21,076	17,057	571	-	3,496	2,146	9,633	3,681
2015									
	3	3,741		50	-	278	194	1,281	371
	4	2,896		27	-	199	147	820	267
	5	2,256		11	-	165	157	465	203
	6	2,038		10	-	144	134	284	209
	7	2,061		6	-	143	136	233	228
	8	2,282		12	-	171	137	205	235
	9	2,171		47	-	208	144	216	202
	10	2,422		114	-	306	184	373	200
	11	3,087		125	-	322	209	767	254
	12	4,212		116	-	439	243	1,322	413
2016 ^a									
	1	5,041		78	-	511	246	1,759	499
	2	4,714		57	-	419	214	1,669	434
	3	3,925		41	-	338	207	1,330	368
	4	2,848		18	-	215	158	783	249
	5	2,291		11	-	189	151	456	211
	6	2,096		10	-	147	125	283	228
	7	2,154		6	-	133	122	238	251
	8	2,448		16	-	172	138	182	267
	9	2,303		42	-	223	145	211	208
	10	2,416		89	-	285	171	378	202
	11	3,413		115	-	369	219	909	309
	12	4,483		88	-	495	250	1,436	455
2017 ^a									
	1	4,933		58	-	450	235	1,763	476
	2	4,761		51	-	402	194	1,731	445
	3	3,879		35	-	329	177	1,334	370
2016 ^a 1-3		13,681		176	0	1,268	667	4,758	1,300
2017 ^a 1-3		13,573		144	0	1,181	606	4,828	1,291

주 1. 신재생 월수치는 가정, 상업 합계임.

2. 연탄소비는 모두 가정부문에 포함.

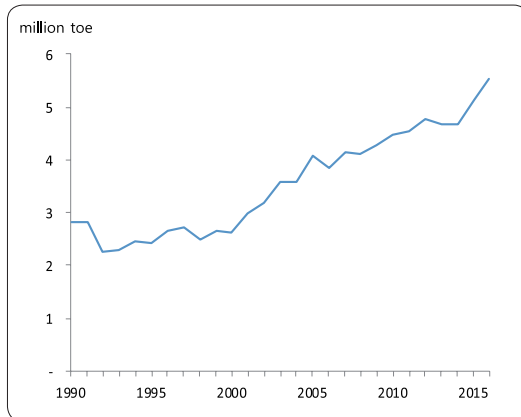
Residential and commercial

전력 Electricity		열 Heat		신재생 Renewables		
가정 Residential	상업 Commercial	가정 Residential	상업 Commercial	가정 Residential	상업 Commercial	
1,000 toe						
1,525	895	69	6	731	66	1990
1,675	1,057	72	7	538	80	1991
1,874	1,300	135	7	210	29	1992
2,057	1,606	354	2	148	24	1993
2,284	2,011	440	14	190	48	1994
2,434	2,367	610	22	212	53	1995
2,635	2,829	762	33	182	10	1996
2,765	3,325	850	42	146	8	1997
2,831	3,291	807	41	154	8	1998
2,974	3,819	928	54	159	5	1999
3,191	4,700	1,030	66	115	33	2000
3,372	5,633	1,050	75	109	42	2001
3,636	6,223	1,118	78	325	26	2002
3,833	6,752	1,180	89	286	58	2003
4,181	7,172	1,204	108	256	47	2004
4,375	7,858	1,358	133	89	34	2005
4,517	8,366	1,272	119	79	37	2006
4,659	8,854	1,285	116	69	39	2007
4,836	9,308	1,352	125	65	35	2008
4,953	9,640	1,388	120	129	33	2009
5,263	10,373	1,531	145	72	33	2010
5,295	10,463	1,512	149	84	38	2011
5,464	10,585	1,553	159	88	44	2012
5,501	10,576	1,499	158	114	51	2013
5,390	10,316	1,373	155	137	60	2014
5,486	10,533	1,357	163	180	73	2015
5,691	10,959	1,484	187	202	84	2016 ^p
435	911	185	16	21	3	2015
452	853	102	8	21	4	
420	760	50	7	19	5	
427	772	29	10	19	6	
436	825	23	12	20	7	
534	933	19	13	24	8	
462	840	25	9	21	9	
416	745	60	6	19	10	
445	794	139	12	20	11	
465	936	234	23	22	12	
498	1,081	312	31	28	1	2016 ^p
508	1,109	253	24	26	2	
454	960	188	16	23	3	
453	849	92	8	23	4	
424	768	51	8	21	5	
432	808	30	11	22	6	
460	879	27	15	23	7	
600	1,012	18	17	27	8	
515	899	25	10	24	9	
426	774	64	7	21	10	
452	836	168	15	23	11	
469	986	255	24	25	12	
500	1,092	297	29	33	1	2017 ^p
508	1,118	256	25	31	2	
440	953	196	17	28	3	
1,461	3,149	753	71	77	1-3	2016 ^p
1,448	3,163	749	71	93	1-3	2017 ^p

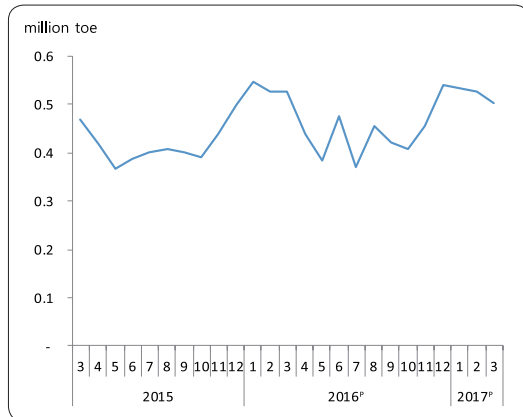
Note 1. Coal and monthly data of renewables include commercial.
2. All briquette consumption is included in the residential.

□ 공공 Public

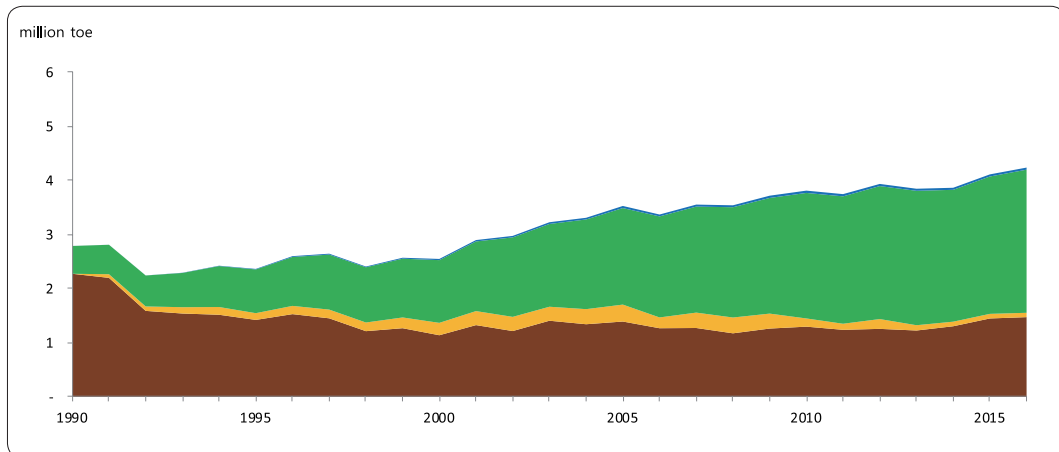
<1990~2016^P>



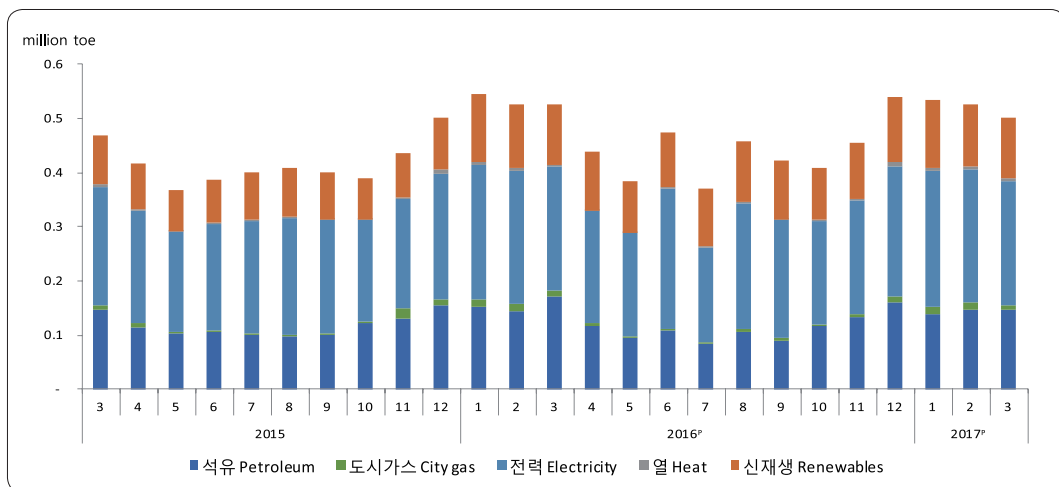
<월별 Monthly>



<1990~2016^P>



<월별 Monthly>



2.2.5 공공

Public

		합계 Total	석유 Petroleum	도시가스 City gas	전력 Electricity	열 Heat	신재생 Renewables
		1,000 toe					
1990		2,812	2,276	-	514	1	-
1991		2,813	2,201	68	544	1	-
1992		2,259	1,590	82	572	1	1
1993		2,296	1,541	117	633	4	1
1994		2,467	1,519	143	757	6	42
1995		2,416	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		2,487	1,215	160	1,022	13	77
1999		2,648	1,270	199	1,086	18	75
2000		2,625	1,140	229	1,160	22	74
2001		2,989	1,327	259	1,288	25	90
2002		3,191	1,217	262	1,470	27	215
2003		3,593	1,408	259	1,531	32	364
2004		3,595	1,343	279	1,658	31	283
2005		4,068	1,393	313	1,785	39	538
2006		3,836	1,270	199	1,868	34	464
2007		4,143	1,274	285	1,960	37	588
2008		4,100	1,175	292	2,039	36	557
2009		4,295	1,263	277	2,138	42	575
2010		4,483	1,299	152	2,321	42	669
2011		4,560	1,240	112	2,355	41	811
2012		4,769	1,258	181	2,459	40	832
2013		4,670	1,227	98	2,485	38	821
2014		4,679	1,306	85	2,438	38	813
2015		5,152	1,450	85	2,540	39	1,038
2016 ^o		5,542	1,474	80	2,646	39	1,302
2015	3	469	145	9	219	5	90
	4	416	115	6	208	2	85
	5	368	103	3	185	1	76
	6	387	105	3	197	1	81
	7	399	99	3	209	2	86
	8	408	97	4	216	2	88
	9	400	100	3	210	1	86
	10	389	123	3	186	1	76
	11	436	131	17	202	3	83
	12	500	156	10	233	7	95
2016 ^p	1	546	153	14	246	7	126
	2	526	145	13	246	6	116
	3	527	172	10	229	4	113
	4	437	116	5	208	2	107
	5	384	94	3	191	1	95
	6	474	108	3	259	2	101
	7	371	84	4	173	2	107
	8	456	105	5	233	3	111
	9	421	90	3	219	1	107
	10	408	115	3	192	1	96
	11	455	133	7	208	4	104
	12	538	159	11	243	6	119
2017 ^p	1	534	138	13	251	7	125
	2	527	148	13	244	6	116
	3	501	146	10	229	5	112
2016 ^o	1-3	1,599	470	36	720	17	355
2017 ^p	1-3	1,563	432	36	724	18	354

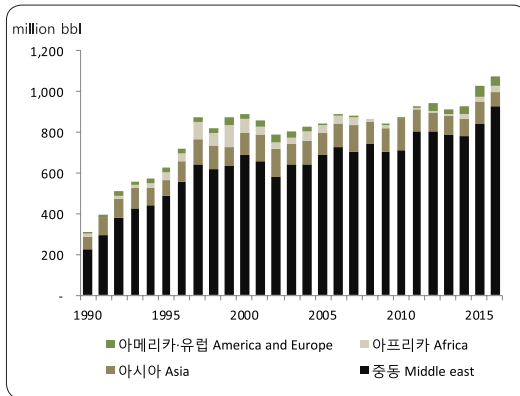
3. 석유

Petroleum

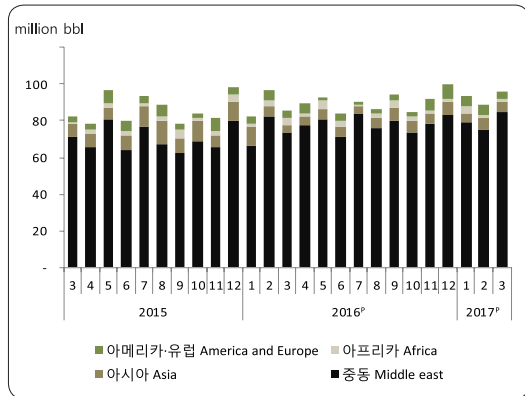


□ 원유 수입 Crude oil imports

<1990~2016^p>

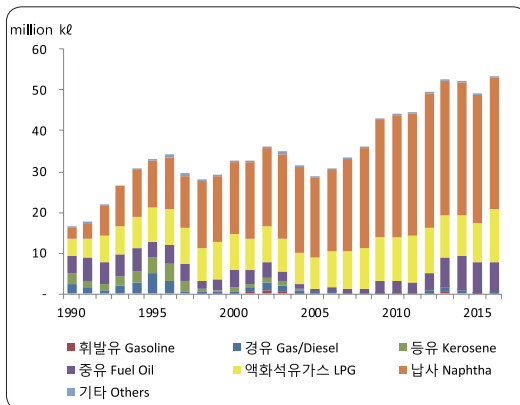


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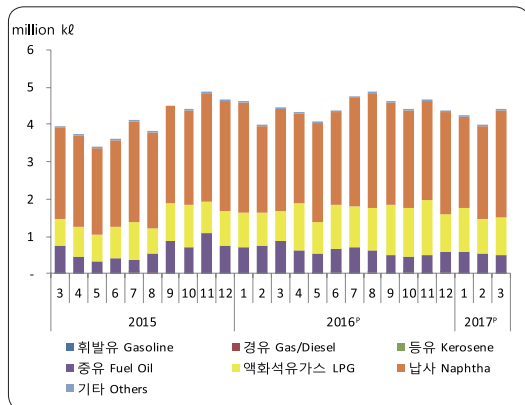


□ 석유제품 수입 Petroleum products imports

<1990~2016^p>

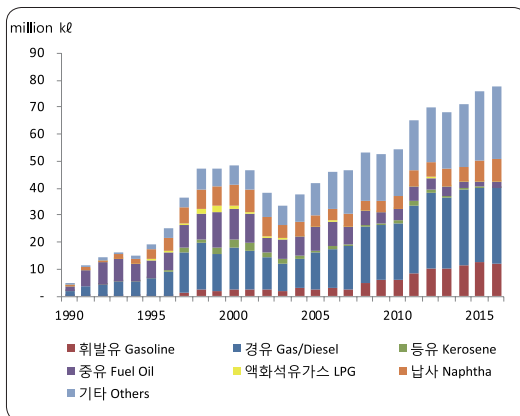


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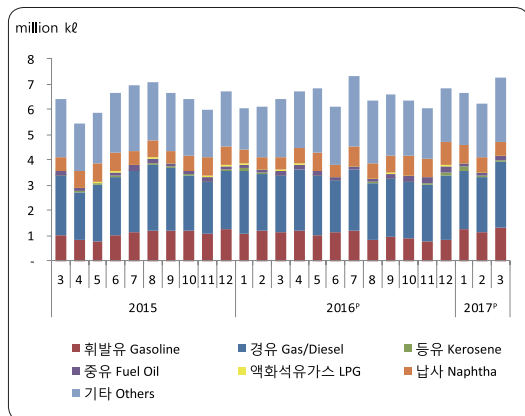


□ 석유제품 수출 Petroleum products exports

<1990~2016^p>

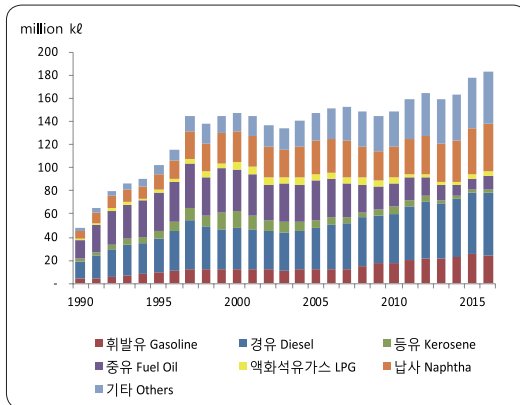


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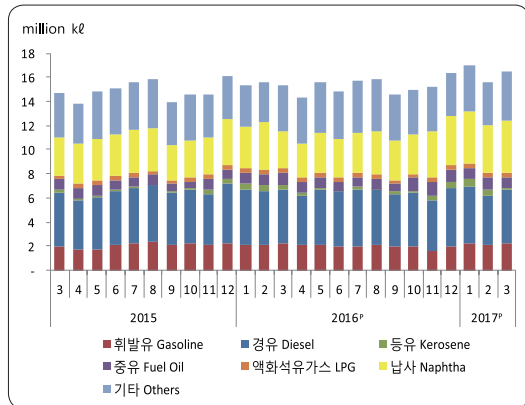


□ 석유제품 생산 Petroleum products production

<1990~2016^P>

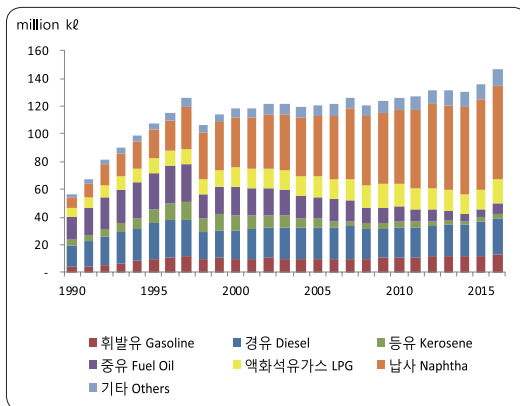


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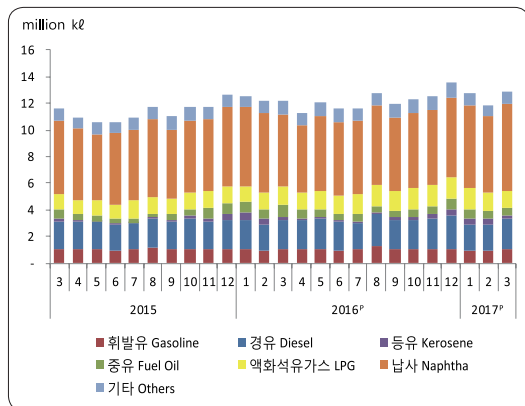


□ 석유제품 1차에너지 공급 Primary energy supply of petroleum products

<1990~2016^P>

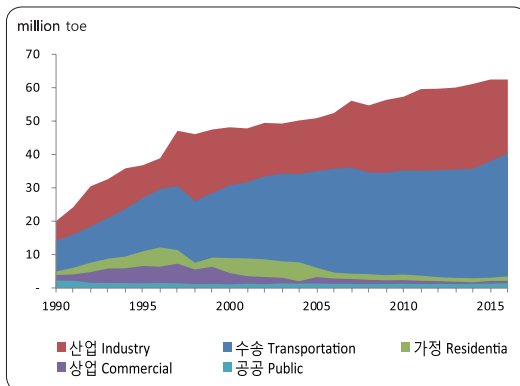


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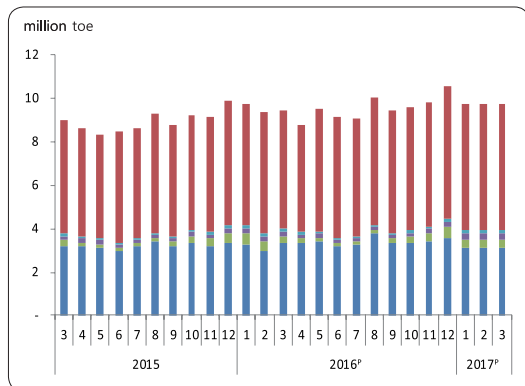


□ 석유제품 최종에너지 부문별 소비 Final energy consumption of petroleum products by sector

<1990~2016^P>



<월별 Monthly>



3.1 원유 수급

Crude oil supply and demand

		국내생산 ¹ Domestic production	수입 Imports	재고 Stock	정제투입 Refinery intake			정제능력 ³ Refining capacity	정제가동률 ⁴ Operable utilization rate
					원유	정제원료(반제품)	기타 ²		
					Crude oil	Refinery feedstocks	Other		
		1,000 bbl						1,000 BPSD	%
1990		-	308,368	3,370	306,493	6,766	-	840	99.97
1991		-	399,303	4,644	413,055	6,821	-	1,036	109.23
1992		-	509,378	5,402	510,032	10,455	-	1,442	96.64
1993		-	560,563	7,428	544,504	15,089	-	1,675	89.06
1994		-	573,714	17,323	561,584	23,559	-	1,700	90.51
1995		-	624,945	10,377	631,078	30,297	-	1,818	95.10
1996		-	721,927	11,297	720,846	26,986	-	2,438	80.78
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	99.78
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	82.57
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	2,772	86.82
2007		236	872,541	11,637	882,117	38,721	4,865	2,812	85.94
2008		155	864,872	10,723	865,663	40,409	4,959	2,860	82.70
2009		321	835,085	7,244	838,475	33,399	5,731	2,875	79.90
2010		380	872,415	7,611	872,247	26,633	5,986	2,890	82.69
2011		285	927,044	10,980	924,441	38,696	5,920	3,010	84.14
2012		263	947,292	13,231	945,162	41,488	5,926	3,039	84.98
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	2,949	85.32
2015		115	1,026,107	37,407	1,015,986	50,438	5,287	3,059	90.99
2016 ^p		104	1,078,119	41,847	1,071,731	51,533	5,444	3,059	95.99
2015	3	12	82,222	24,052	85,425	3,279	374	3,059	90.08
	4	11	78,391	24,038	78,315	3,366	571	3,059	85.34
	5	11	96,619	35,790	84,763	2,516	501	3,059	89.39
	6	8	80,017	28,161	87,305	3,382	409	3,059	95.13
	7	8	93,504	31,156	90,401	4,869	398	3,059	95.33
	8	9	88,688	31,251	88,516	5,196	457	3,059	93.34
	9	8	78,140	28,951	80,352	5,698	425	3,059	87.56
	10	5	83,874	29,631	83,064	4,964	468	3,059	87.59
	11	8	81,699	29,743	81,480	4,995	403	3,059	88.79
	12	8	98,264	37,407	91,725	5,400	442	3,059	96.73
2016 ^p	1	8	82,741	28,039	91,499	4,187	467	3,059	96.49
	2	7	96,655	34,086	90,494	3,914	438	3,059	102.01
	3	7	85,905	30,837	89,078	4,706	432	3,059	93.94
	4	3	89,702	35,432	85,003	4,414	491	3,059	92.63
	5	8	92,698	36,565	91,417	3,603	442	3,059	96.40
	6	5	83,982	34,346	86,061	4,510	413	3,059	93.78
	7	14	90,076	32,461	91,833	3,910	461	3,059	96.84
	8	5	86,146	29,585	88,890	4,448	479	3,059	93.74
	9	-	94,153	39,248	84,354	3,388	459	3,059	91.92
	10	4	84,633	35,310	88,453	3,407	431	3,059	93.28
	11	20	91,642	36,993	89,103	4,990	423	3,059	97.09
	12	21	99,787	41,847	95,547	6,056	508	3,059	100.76
2017 ^p	1	22	93,663	37,222	98,224	5,543	433	3,059	103.58
	2	20	88,607	37,870	87,855	5,639	434	3,059	102.57
	3	20	95,913	40,291	93,424	5,382	448	3,059	109.07
2016 ^p	1-3	22	265,301	30,837	271,071	12,808	1,337	3,059	150.19
2017 ^p	1-3	61	278,183	40,291	279,504	16,563	1,315	3,059	154.87

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

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

3.2 석유제품 수급

Petroleum products supply and demand

		생산 Production	수입 Imports	수출 Exports	국제병커링 ¹ International bunkers	재고 Stocks	국내공급 ² Domestic supply
		1,000 kℓ					
1990		48,410	16,097	4,322	2,403	3,112	56,654
1991		64,900	17,495	11,088	3,293	3,220	67,515
1992		80,217	21,783	14,571	4,149	4,901	81,753
1993		85,849	26,671	16,454	4,855	5,395	89,758
1994		90,375	30,332	14,806	5,295	5,779	98,808
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 ^p		183,647	53,062	77,618	9,810	7,969	146,504
2015	3	14,640	3,924	6,431	745	7,180	11,592
	4	13,844	3,718	5,423	764	7,282	10,967
	5	14,821	3,365	5,841	759	7,896	10,572
	6	15,030	3,565	6,649	722	8,187	10,633
	7	15,625	4,086	6,980	765	8,749	10,905
	8	15,788	3,763	7,043	705	8,338	11,757
	9	13,995	4,497	6,651	737	8,030	10,981
	10	14,577	4,394	6,394	744	7,716	11,668
	11	14,517	4,851	5,956	759	8,134	11,770
	12	16,116	4,619	6,684	862	8,184	12,662
2016 ^p	1	15,372	4,594	6,050	895	8,397	12,557
	2	15,617	3,941	6,094	789	8,605	12,160
	3	15,372	4,428	6,410	887	8,652	12,157
	4	14,322	4,274	6,697	837	8,218	11,264
	5	15,601	4,069	6,815	781	8,008	12,091
	6	14,803	4,335	6,107	785	8,371	11,594
	7	15,674	4,697	7,303	851	8,807	11,626
	8	15,817	4,814	6,327	770	9,088	12,807
	9	14,587	4,589	6,616	774	8,754	11,943
	10	14,937	4,356	6,338	722	8,754	12,266
	11	15,174	4,610	6,018	881	8,621	12,523
	12	16,370	4,354	6,842	837	7,969	13,515
2017 ^p	1	16,928	4,206	6,672	864	8,420	12,707
	2	15,577	3,945	6,253	731	8,704	11,861
	3	16,421	4,369	7,251	819	8,100	12,822
2016 ^p	1-3	46,361	12,963	18,555	2,570	8,652	36,874
2017 ^p	1-3	48,926	12,520	20,176	2,415	8,100	37,391

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

		합계 Total	중동 Middle East			아시아 Asia		
			소계 ¹ Sub-total	장기계약 Long-term	현물 Spot	소계 ¹ Sub-total	장기계약 Long-term	현물 Spot
			1,000 bbl					
1990		308,368	229,017	123,571	93,820	62,530	32,127	25,834
1991		399,303	294,357	199,810	92,249	82,695	43,327	38,709
1992		509,378	380,452	269,822	106,432	95,033	44,905	49,755
1993		560,563	430,839	299,831	125,467	99,147	53,933	45,214
1994		573,714	439,330	306,221	128,417	91,083	49,920	40,538
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 ^p		1,078,119	926,201	609,995	303,893	72,756	19,044	53,712
10.4								
2015	3	82,222	71,157	52,705	18,452	7,079	2,575	4,504
	4	78,391	65,466	48,984	16,482	7,317	480	6,837
	5	96,619	81,135	59,523	21,612	6,119	625	5,493
	6	80,017	63,751	40,052	23,699	8,621	2,765	5,856
	7	93,504	76,970	50,007	26,464	10,966	1,079	9,888
	8	88,688	67,049	46,339	19,251	12,595	2,368	10,226
	9	78,140	62,576	40,085	21,992	7,564	2,067	5,498
	10	83,874	68,838	50,088	17,769	11,048	2,157	8,891
	11	81,699	65,262	44,632	20,171	6,691	300	6,391
	12	98,264	80,371	53,014	25,439	10,306	2,396	7,910
2016 ^p	1	82,741	66,372	39,606	25,719	10,353	2,214	8,139
	2	96,655	82,023	51,842	29,184	5,697	-	5,697
	3	85,905	73,956	51,997	21,050	3,772	1,415	2,357
	4	89,702	77,382	55,018	22,365	4,604	1,052	3,552
	5	92,698	81,164	53,891	27,014	5,348	1,541	3,807
	6	83,982	71,021	45,747	24,220	5,579	962	4,616
	7	90,076	83,785	53,743	28,583	4,177	743	3,434
	8	86,146	75,596	50,385	23,757	6,296	2,874	3,422
	9	94,153	79,839	56,478	21,807	7,538	2,316	5,222
	10	84,633	73,542	47,719	24,259	6,625	1,577	5,048
	11	91,642	78,563	49,315	27,706	5,073	1,198	3,874
	12	99,787	82,957	54,254	28,230	7,694	3,151	4,544
2017 ^p	1	93,663	79,410	50,684	26,638	4,712	330	4,382
	2	88,607	75,001	52,085	21,400	6,183	2,382	3,801
	3	95,913	84,966	53,709	29,985	5,397	2,055	3,342
2016 ^p	1-3	265,301	222,352	143,445	75,953	19,822	3,629	16,193
2017 ^p	1-3	278,183	239,377	156,479	78,023	16,292	4,766	11,525

1. 임가공과 개발도입 물량 포함.

자료: 한국석유공사-PEDSIS

Crude oil imports by contract type

아프리카 Africa			아메리카·유럽 America and Europe			계약형태 비중 ² Share of contract type		
소계 ¹ Sub-total	장기계약 Long-term	현물 Spot	소계 ¹ Sub-total	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
5,551	-	3,744	16,701	13,965	2,736	64.39	34.42	1991
12,822	3,500	7,460	21,071	20,083	-	66.42	32.13	1992
12,876	2,403	9,915	17,702	17,702	-	66.70	32.22	1993
23,225	5,637	17,588	20,075	20,075	-	66.56	32.51	1994
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	24,829	23,837	61.05	37.81	2016 ^p
1,330	650	680	2,656	1,567	1,089	69.93	30.07	3 2015
2,208	-	2,208	3,400	99	3,300	63.23	36.77	4
2,617	717	1,900	6,749	973	5,776	64.00	36.00	5
2,136	-	2,136	5,509	4,038	1,471	58.56	41.44	6
1,392	-	1,392	4,175	-	4,175	54.64	44.83	7
3,001	965	2,037	6,043	300	5,744	56.35	42.01	8
5,025	700	4,324	2,975	-	2,975	54.84	44.52	9
2,031	-	2,031	1,957	978	979	63.46	35.37	10
2,719	-	2,719	7,027	4,032	2,995	59.93	39.51	11
3,552	-	3,552	4,035	1,000	3,035	57.41	40.64	12
1,991	-	1,991	4,025	964	3,061	51.71	47.02	1 2016 ^p
3,552	-	3,552	5,383	3,333	2,050	57.08	41.88	2
4,049	1,098	2,951	4,127	2,129	1,998	65.93	33.01	3
2,126	-	2,126	5,590	3,596	1,994	66.52	33.48	4
4,258	-	4,258	1,928	1,928	-	61.88	37.84	5
3,389	2,116	1,272	3,993	2,000	1,993	60.52	38.22	6
1,115	-	1,115	1,000	1,000	-	61.60	32.97	7
1,964	-	1,964	2,290	-	2,290	61.82	34.80	8
3,580	1,063	2,517	3,195	2,195	999	65.91	30.70	9
1,892	-	1,892	2,573	1,674	900	60.22	34.20	10
1,549	-	1,549	6,457	4,001	2,457	59.49	36.30	11
1,031	-	1,031	8,105	2,009	6,096	59.54	36.47	12
3,678	1,016	2,663	5,863	4,104	1,759	59.93	37.84	1 2017 ^p
2,199	1,680	520	5,224	3,036	2,188	66.79	31.50	2
1,334	-	1,334	4,217	781	3,436	58.95	39.72	3
9,592	1,098	8,494	13,535	6,427	7,108	58.27	40.61	1-3 2016 ^p
7,211	2,695	4,516	15,304	7,920	7,383	61.78	36.47	1-3 2017 ^p

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

Source: Korea National Oil Corporation-PEDSIS

3.4 국별 원유 수입

		중동 Middle East							
		합계	소계 ¹	사우디아라비아	아랍에미레이트	이란	쿠웨이트	오만	카타르
		Total	Sub-total	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
1991		399,303	294,357	133,588	46,135	52,775	-	51,155	8,133
1992		509,378	380,452	155,104	53,206	61,276	14,372	73,725	14,505
1993		560,563	430,839	172,413	57,576	76,057	29,334	69,557	14,404
1994		573,714	439,330	177,619	48,598	82,828	27,239	48,381	14,352
1995		624,945	486,528	226,863	70,536	68,314	25,233	55,131	10,871
1996		721,927	561,098	252,665	91,620	78,067	41,134	57,413	14,424
1997		873,415	645,678	267,888	127,395	82,192	55,091	50,197	35,241
1998		819,094	622,005	234,450	122,022	67,502	66,894	57,195	34,879
1999		874,090	632,067	241,747	117,405	81,944	53,284	56,001	37,301
2000		893,943	686,916	264,925	128,064	81,251	66,627	46,632	45,722
2001		859,367	661,649	255,432	128,405	80,413	64,407	53,639	42,157
2002		790,992	579,865	240,765	105,905	51,512	56,996	42,053	35,330
2003		804,809	639,453	250,473	138,869	63,682	65,885	40,927	46,780
2004		825,790	645,183	253,849	145,598	64,974	64,659	32,832	45,581
2005		843,203	689,356	249,337	150,608	70,767	79,679	38,799	53,122
2006		888,794	730,843	261,563	158,865	75,058	92,620	36,273	49,871
2007		872,541	704,020	249,887	141,887	85,793	94,031	14,760	46,088
2008		864,872	746,458	262,637	158,109	73,016	104,593	16,670	64,402
2009		835,085	705,363	254,799	114,592	81,437	100,090	17,507	53,673
2010		872,415	713,647	276,787	105,656	72,605	103,079	12,152	64,362
2011		927,044	807,908	291,348	87,234	87,184	117,370	16,715	93,146
2012		947,292	805,971	303,049	86,536	56,146	137,647	8,761	103,825
2013		915,075	786,813	286,588	110,809	48,214	139,853	3,543	86,090
2014		927,524	778,923	292,592	108,472	44,923	136,546	6,516	100,127
2015		1,026,107	844,637	305,779	99,835	42,400	141,856	2,897	123,228
2016 ^p		1,078,119	926,201	324,448	87,743	111,942	159,273	16,317	88,150
2015	3	82,222	71,157	23,920	8,818	4,214	11,476	82	10,200
	4	78,391	65,466	29,010	5,738	3,781	10,138	123	11,600
	5	96,619	81,135	34,855	6,442	3,999	10,650	122	15,594
	6	80,017	63,751	21,136	6,535	3,573	8,441	-	10,893
	7	93,504	76,970	28,356	8,525	2,068	14,015	-	10,910
	8	88,688	67,049	21,760	9,575	4,054	12,672	229	8,570
	9	78,140	62,576	19,647	9,109	5,909	11,652	1,115	9,796
	10	83,874	68,838	23,343	10,550	4,071	11,216	524	9,151
	11	81,699	65,262	23,049	6,509	2,916	12,318	-	7,906
	12	98,264	80,371	26,489	9,826	1,777	14,529	703	10,211
2016 ^p	1	82,741	66,372	23,052	6,507	6,467	11,319	1,109	7,848
	2	96,655	82,023	27,370	7,294	8,184	13,160	744	9,106
	3	85,905	73,956	23,459	6,538	8,198	12,935	4,026	6,989
	4	89,702	77,382	31,007	6,324	7,114	9,881	2,038	6,947
	5	92,698	81,164	27,568	7,435	9,822	17,109	1,991	8,245
	6	83,982	71,021	22,618	6,629	8,418	12,677	1,026	6,652
	7	90,076	83,785	30,053	7,646	9,024	16,123	1,632	9,633
	8	86,146	75,596	27,190	8,364	8,606	12,764	2,361	6,435
	9	94,153	79,839	27,428	7,551	12,175	14,723	-	6,468
	10	84,633	73,542	27,491	8,967	7,051	13,276	299	7,481
	11	91,642	78,563	27,735	8,041	14,162	12,381	292	5,173
	12	99,787	82,957	29,477	6,448	12,722	12,923	798	7,172
2017 ^p	1	93,663	79,410	24,494	8,474	14,819	12,716	-	6,093
	2	88,607	75,001	26,633	7,377	13,374	13,059	828	5,855
	3	95,913	84,966	25,990	9,081	18,536	13,689	1,059	5,736
2016 ^p	1-3	265,301	222,352	73,881	20,339	22,849	37,414	5,880	23,943
2017 ^p	1-3	278,183	239,377	77,117	24,932	46,730	39,464	1,887	17,683

1. 기타 국가 물량 포함.

2. 아프리카 국가는 앙골라, 나이지리아, 콩고, 예멘, 오만 등임.

3. 아메리카 국가는 에콰도르, 미국, 멕시코, 브라질 등임.

4. 유럽 국가는 러시아, 노르웨이, 영국 등임.

자료: 한국석유공사-PEDSIS

Crude oil imports by country

		아시아 Asia			아프리카 ²	아메리카 ³	유럽 ⁴		
소계 ¹	인도네시아	말레이시아	호주	브루나이					
Sub-total	Indonesia	Malaysia	Australia	Brunei					
1,000 bbl									
62,530	19,096	23,135	689	11,514	9,689	7,132	-		1990
82,695	33,436	26,102	1,674	12,225	5,551	16,701	-		1991
95,033	38,040	25,464	-	14,441	12,822	21,071	-		1992
99,147	34,677	27,370	1,819	12,950	12,876	17,702	-		1993
91,083	37,454	19,998	3,880	13,335	23,225	20,075	-		1994
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 ^p
7,079	545	485	1,287	581	1,330	2,089	567	3	2015
7,317	509	-	1,950	299	2,208	2,979	421	4	
6,119	1,252	-	1,202	314	2,617	2,691	4,058	5	
8,621	873	-	1,767	609	2,136	1,471	4,038	6	
10,966	170	934	1,268	300	1,392	4,175	-	7	
12,595	924	-	2,654	286	3,001	1,963	4,080	8	
7,564	1,377	314	955	314	5,025	954	2,021	9	
11,048	605	354	1,361	300	2,031	1,957	-	10	
6,691	85	-	1,331	300	2,719	1,989	5,038	11	
10,306	1,068	150	1,225	911	3,552	1,000	3,035	12	
10,353	508	-	3,159	-	1,991	1,926	2,099	1	2016 ^p
5,697	594	-	2,479	626	3,552	240	5,143	2	
3,772	367	-	-	1,200	4,049	3,160	967	3	
4,604	717	-	650	-	2,126	2,982	2,608	4	
5,348	384	645	1,832	286	4,258	1,928	-	5	
5,579	622	-	649	-	3,389	3,993	-	6	
4,177	85	596	-	-	1,115	1,000	-	7	
6,296	300	-	328	288	1,964	2,290	-	8	
7,538	691	314	1,352	-	3,580	3,195	-	9	
6,625	777	-	650	600	1,892	900	1,674	10	
5,073	735	-	300	-	1,549	4,456	2,001	11	
7,694	631	-	650	-	1,031	4,010	4,095	12	
4,712	630	-	618	-	3,678	2,934	2,929	1	2017 ^p
6,183	300	-	-	290	2,199	1,171	4,053	2	
5,397	550	300	1,268	-	1,334	3,249	969	3	
19,822	1,469	-	5,638	1,827	9,592	5,326	8,209	1-3	2016 ^p
16,292	1,480	300	1,886	290	7,211	7,354	7,950	1-3	2017 ^p

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

2. Angola, Nigeria, Republic of the Congo, Yemen, Oman, etc.

3. Ecuador, US, Mexico, Brazil, etc.

4. Russia, Norway, UK, etc.

Source: Korea National Oil Corporation-PEDSIS

3.5 석유제품 수입

Petroleum products imports

		합계 Total	휘발유 Gasoline	경유 Gas/Diesel oil	등유 Kerosene	중유 ¹ Fuel oil	액화석유가스 LPG	납사 Naphtha	기타 ² Others
1,000 kℓ									
1990		16,097	-	2,160	2,777	4,397	4,312	2,450	1
1991		17,495	-	1,718	1,553	5,439	4,817	3,953	15
1992		21,783	-	919	1,429	5,449	6,301	7,623	63
1993		26,671	-	1,785	2,546	5,187	7,230	9,923	-
1994		30,332	-	2,772	2,717	5,642	7,726	11,473	3
1995		32,660	-	5,118	3,714	3,947	8,442	11,421	18
1996		34,201	-	2,948	4,401	4,633	8,768	12,751	701
1997		29,541	-	498	2,507	4,254	9,099	12,611	572
1998		27,965	34	349	811	2,055	7,813	16,709	192
1999		29,331	62	367	427	2,623	9,167	16,076	609
2000		32,481	118	448	1,092	3,992	8,865	17,692	273
2001		32,557	335	1,062	844	3,548	7,641	19,036	90
2002		36,337	641	2,055	1,100	3,768	8,937	19,382	454
2003		34,960	328	1,771	1,053	2,199	8,077	20,983	550
2004		31,019	194	682	272	1,317	7,613	20,885	56
2005		28,514	12	304	57	639	7,900	19,602	0
2006		30,455	-	251	41	1,389	8,586	20,185	2
2007		33,248	-	122	82	940	9,248	22,856	0
2008		35,710	-	59	60	1,143	10,023	24,385	40
2009		42,642	-	133	11	3,157	10,523	28,751	67
2010		44,015	-	121	53	2,779	11,070	29,984	8
2011		44,398	-	151	66	2,447	11,755	29,970	8
2012		49,221	13	760	24	4,316	11,120	32,980	7
2013		52,338	273	1,367	16	7,040	10,488	33,116	39
2014		51,928	-	819	21	8,268	10,101	32,707	11
2015		48,947	61	42	2	7,430	9,970	31,418	23
2016 ^p		53,062	221	32	3	7,373	13,239	32,150	44
2015	3	3,924	0	4	1	734	744	2,441	1
	4	3,718	-	5	-	476	764	2,464	8
	5	3,365	-	2	-	335	705	2,321	2
	6	3,565	13	1	-	417	813	2,321	0
	7	4,086	29	3	-	345	1,026	2,678	5
	8	3,763	20	3	-	534	649	2,554	2
	9	4,497	-	3	-	879	1,019	2,595	-
	10	4,394	-	2	-	725	1,136	2,527	5
	11	4,851	-	12	-	1,073	864	2,901	0
	12	4,619	-	1	1	744	954	2,920	0
2016 ^p	1	4,594	-	-	2	713	905	2,971	3
	2	3,941	-	-	1	742	899	2,295	4
	3	4,428	-	6	-	891	798	2,733	0
	4	4,274	-	1	-	648	1,254	2,368	3
	5	4,069	12	3	-	525	857	2,651	21
	6	4,335	54	4	-	617	1,182	2,478	0
	7	4,697	13	3	-	700	1,073	2,909	0
	8	4,814	25	3	-	616	1,111	3,059	0
	9	4,589	-	2	-	509	1,322	2,755	0
	10	4,356	53	3	-	400	1,328	2,572	1
	11	4,610	13	2	-	495	1,468	2,632	0
	12	4,354	52	5	-	518	1,042	2,726	12
2017 ^p	1	4,206	-	2	1	565	1,203	2,435	0
	2	3,945	12	2	-	526	920	2,484	0
	3	4,369	-	4	-	514	997	2,851	2
2016 ^p	1-3	12,963	-	6	3	2,346	2,602	8,000	7
2017 ^p	1-3	12,520	12	8	1	1,606	3,120	7,770	3

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

		합계	휘발유	경유	등유	중유 ¹	액화석유가스	납사	기타 ²	
		Total	Gasoline	Gas/Diesel oil	Kerosene	Fuel oil	LPG	Naphtha	Others	
		1,000 kℓ								
1990		4,322	5	1,662	15	1,922	175	529	14	
1991		11,088	158	3,285	-	6,030	213	894	508	
1992		14,571	19	4,312	1	8,062	104	863	1,211	
1993		16,454	83	5,677	1	7,900	212	1,642	938	
1994		14,806	90	5,455	74	6,372	213	1,454	1,148	
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 ^p		77,618	12,124	27,906	328	2,066	297	7,912	26,985	
2015	3	6,431	975	2,365	23	200	14	519	2,336	
	4	5,423	814	1,912	20	128	12	638	1,898	
	5	5,841	732	2,271	45	37	34	745	1,977	
	6	6,649	1,013	2,307	30	169	14	732	2,384	
	7	6,980	1,124	2,401	45	200	5	592	2,613	
	8	7,043	1,174	2,634	23	233	10	693	2,276	
	9	6,651	1,204	2,488	31	110	17	520	2,280	
	10	6,394	1,175	2,184	46	119	14	622	2,234	
	11	5,956	1,037	2,078	37	183	10	742	1,868	
	12	6,684	1,264	2,307	42	144	34	721	2,173	
	2016 ^p	1	6,050	1,079	2,502	80	128	42	566	1,654
		2	6,094	1,203	2,238	23	132	27	471	2,000
3		6,410	1,116	2,248	19	170	30	545	2,282	
4		6,697	1,214	2,369	-	232	13	634	2,234	
5		6,815	999	2,378	9	181	10	723	2,515	
6		6,107	1,101	2,098	9	72	23	488	2,317	
7		7,303	1,177	2,461	-	79	21	794	2,771	
8		6,327	821	2,272	28	133	7	622	2,444	
9		6,616	967	2,286	16	180	13	686	2,467	
10		6,338	867	2,239	5	240	16	801	2,171	
11		6,018	762	2,257	25	264	29	674	2,007	
12		6,842	817	2,559	114	256	66	906	2,123	
2017 ^p	1	6,672	1,215	2,357	174	81	36	706	2,104	
	2	6,253	1,147	2,159	72	90	47	570	2,167	
	3	7,251	1,301	2,644	33	172	25	547	2,528	
2016 ^p	1-3	18,555	3,399	6,988	121	430	99	1,582	5,936	
2017 ^p	1-3	20,176	3,663	7,160	279	342	108	1,824	6,799	

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

		합계 Total	휘발유 Gasoline	경유 Gas/Diesel oil	등유 Kerosene	중유 ¹ Fuel oil	액화석유가스 LPG	납사 Naphtha	기타 ² Others
1,000 kℓ									
1990		48,410	3,806	15,033	2,152	16,366	1,907	5,642	3,504
1991		64,900	4,537	20,234	2,161	23,559	2,026	8,433	3,949
1992		80,217	5,143	24,257	4,660	28,518	2,332	10,375	4,933
1993		85,849	6,561	26,704	5,074	30,067	2,223	10,410	4,809
1994		90,375	8,062	26,875	5,136	31,221	2,339	10,806	5,936
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 ^p		183,647	24,413	53,892	3,103	11,282	4,176	40,800	45,979
2015	3	14,640	1,998	4,502	172	887	330	3,096	3,654
	4	13,844	1,759	4,053	126	917	307	3,330	3,354
	5	14,821	1,790	4,287	152	903	365	4,423	3,901
	6	15,030	2,094	4,500	98	777	353	3,482	3,725
	7	15,625	2,219	4,556	133	811	367	3,524	4,016
	8	15,788	2,370	4,675	80	776	366	3,523	4,000
	9	13,995	2,141	4,300	166	534	323	2,976	3,555
	10	14,577	2,231	4,420	188	524	316	3,093	3,804
	11	14,517	2,105	4,200	371	953	311	3,130	3,446
	12	16,116	2,285	4,923	383	777	339	3,807	3,602
2016 ^p	1	15,372	2,168	4,484	530	912	337	3,484	3,458
	2	15,617	2,119	4,427	472	973	344	3,925	3,358
	3	15,372	2,182	4,562	344	1,064	362	2,995	3,863
	4	14,322	2,058	4,182	136	951	325	2,804	3,865
	5	15,601	2,108	4,630	138	855	380	3,295	4,194
	6	14,803	2,047	4,485	78	752	369	3,140	3,933
	7	15,674	2,006	4,743	139	841	371	3,304	4,270
	8	15,817	2,137	4,564	45	891	360	3,558	4,262
	9	14,587	1,978	4,380	144	722	288	3,234	3,841
	10	14,937	1,946	4,435	210	1,127	280	3,228	3,711
	11	15,174	1,654	4,176	322	1,206	382	3,764	3,670
	12	16,370	2,011	4,825	546	988	378	4,069	3,553
2017 ^p	1	16,928	2,189	4,721	628	947	374	4,364	3,705
	2	15,577	2,101	4,145	479	959	386	3,900	3,606
	3	16,421	2,188	4,534	132	828	439	4,236	4,065
2016 ^p	1-3	46,361	6,469	13,472	1,345	2,949	1,043	10,404	10,679
2017 ^p	1-3	48,926	6,477	13,400	1,239	2,734	1,200	12,500	11,376

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

3.8 석유제품 공급

Petroleum products supply

		합계	휘발유	경유	등유	중유 ¹	액화석유가스	납사	기타 ²
		Total	Gasoline	Gas/Diesel oil	Kerosene	Fuel oil	LPG	Naphtha	Others
		1,000 kℓ							
1990		56,654	3,767	15,493	3,965	17,278	5,678	7,560	2,913
1991		67,515	4,565	18,207	4,070	20,180	6,857	10,441	3,195
1992		81,753	5,604	20,260	5,445	22,971	8,572	15,447	3,455
1993		89,758	6,758	21,943	6,878	23,853	9,450	17,262	3,616
1994		98,808	8,122	23,413	7,605	26,098	10,088	19,599	3,883
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 ^p		146,504	12,548	26,480	3,030	7,543	17,420	67,862	11,621
2015		3	11,592	1,023	2,132	214	706	1,138	872
		4	10,967	1,006	2,091	135	506	975	837
		5	10,572	1,002	2,073	75	406	1,129	948
		6	10,633	938	1,962	71	354	1,094	907
		7	10,905	1,022	1,939	66	334	1,371	897
		8	11,757	1,118	2,171	115	341	1,226	931
		9	10,981	1,054	2,087	145	399	1,153	942
		10	11,668	1,061	2,243	248	448	1,308	961
		11	11,770	1,003	2,107	284	726	1,306	938
		12	12,662	1,024	2,238	420	780	1,333	983
2016 ^p		1	12,557	1,035	2,151	570	815	1,233	862
		2	12,160	960	1,957	414	724	1,251	868
		3	12,157	1,010	2,211	296	817	1,387	1,011
		4	11,264	1,024	2,221	141	602	1,346	957
		5	12,091	1,050	2,276	103	575	1,400	999
		6	11,594	988	2,114	73	502	1,393	996
		7	11,626	1,039	1,992	66	629	1,466	926
		8	12,807	1,239	2,397	116	519	1,579	982
		9	11,943	1,071	2,191	154	461	1,549	967
		10	12,266	1,019	2,228	240	583	1,588	1,003
		11	12,523	1,031	2,264	356	562	1,607	979
		12	13,515	1,081	2,479	502	755	1,621	1,071
2017 ^p		1	12,707	963	1,959	456	653	1,610	816
		2	11,861	935	1,962	400	602	1,357	823
		3	12,822	1,044	2,281	280	490	1,324	923
2016 ^p		1-3	36,874	3,006	6,320	1,279	2,355	3,871	2,741
2017 ^p		1-3	37,391	2,942	6,202	1,135	1,745	4,291	2,563

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

		생산 Production	수입 Import	수출 Export	재고 Stock	공급 ¹ Supply	소비 Consumption				
							합계 Total	산업 Industry	수송 Transport	가정 Residential	상업·공공 Commercial/ Public
1,000 kℓ											
1990		3,806	-	5	180	3,767	...	...	...	...	...
1991		4,537	-	158	199	4,565	4,564	106	4,281	8	169
1992		5,143	-	19	200	5,604	5,602	140	5,316	10	136
1993		6,561	-	83	454	6,758	6,758	187	6,439	12	120
1994		8,062	-	90	297	8,122	8,122	219	7,773	14	116
1995		9,612	-	70	344	9,441	9,441	225	9,069	16	130
1996		11,277	-	405	385	10,806	10,806	256	10,439	17	95
1997		12,504	-	1,617	499	11,345	11,345	307	10,933	7	97
1998		12,087	34	2,482	455	9,712	9,712	391	9,178	7	136
1999		11,949	62	1,792	500	9,347	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	9,245	331	8,829	4	82
2005		11,737	12	2,308	500	9,469	9,469	327	9,051	4	87
2006		12,667	-	3,168	512	9,519	9,519	301	9,126	1	91
2007		12,435	-	2,438	532	9,937	9,936	256	9,608	3	70
2008		14,764	-	4,914	421	10,006	10,005	248	9,682	5	71
2009		17,278	-	6,389	509	10,473	10,472	249	10,132	8	83
2010		17,776	-	6,254	611	10,959	10,958	240	10,623	11	84
2011		19,652	-	8,509	509	11,061	11,061	247	10,723	17	73
2012		21,842	13	10,094	811	11,409	11,409	239	11,069	17	84
2013		21,465	273	10,177	805	11,672	11,672	247	11,314	16	95
2014		23,062	-	11,658	707	11,681	11,681	232	11,317	22	109
2015		25,012	61	12,606	812	12,173	12,173	227	11,807	28	111
2016 ^p		24,413	221	12,124	906	12,548	12,548	223	12,192	16	117
2015	3	1,998	0	975	709	1,023	1,023	17	995	2	9
	4	1,759	-	814	653	1,006	1,006	17	977	2	10
	5	1,790	-	732	684	1,002	1,002	24	968	2	8
	6	2,094	13	1,013	820	938	938	22	904	2	9
	7	2,219	29	1,124	847	1,022	1,022	16	996	2	8
	8	2,370	20	1,174	855	1,118	1,118	20	1,087	3	9
	9	2,141	-	1,204	743	1,054	1,054	22	1,020	2	9
	10	2,231	-	1,175	747	1,061	1,060	21	1,028	2	8
	11	2,105	-	1,037	813	1,003	1,003	18	973	2	10
12	2,285	-	1,264	812	1,024	1,024	17	993	2	11	
2016 ^p	1	2,168	-	1,079	863	1,035	1,035	16	1,006	2	11
	2	2,119	-	1,203	819	960	960	14	933	2	11
	3	2,182	-	1,116	865	1,010	1,010	21	977	2	11
	4	2,058	-	1,214	683	1,024	1,024	17	995	2	10
	5	2,108	12	999	759	1,050	1,050	22	1,017	2	9
	6	2,047	54	1,101	814	988	988	19	959	2	9
	7	2,006	13	1,177	637	1,039	1,039	14	1,014	1	10
	8	2,137	25	821	760	1,239	1,239	19	1,210	1	10
	9	1,978	-	967	704	1,071	1,071	22	1,039	1	9
	10	1,946	53	867	818	1,019	1,019	25	985	1	9
	11	1,654	13	762	683	1,031	1,031	16	1,006	0	9
	12	2,011	52	817	906	1,081	1,081	19	1,053	0	9
2017 ^p	1	2,189	-	1,215	890	963	963	14	941	0	7
	2	2,101	12	1,147	898	935	935	11	917	1	6
	3	2,188	-	1,301	744	1,044	1,044	17	1,019	1	7
2016 ^p	1-3	6,469	-	3,399	865	3,006	3,006	51	2,915	6	33
2017 ^p	1-3	6,477	12	3,663	744	2,942	2,942	42	2,877	2	20

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

		생산	수입	수출	재고	공급 ¹	소비 Consumption				
							합계	산업	수송	가정	상업·공공
		Production	Import	Export	Stock	Supply	Total	Industry	Transport	Residential	Commercial/ Public
1,000 kℓ											
1990		15,033	2,160	1,662	527	15,493	...	...	...	...	...
1991		20,234	1,718	3,285	760	18,207	17,880	3,768	9,560	1,201	3,352
1992		24,257	919	4,312	1,075	20,260	19,613	3,929	10,412	1,650	3,622
1993		26,704	1,785	5,677	1,273	21,943	21,604	4,619	12,433	2,046	2,505
1994		26,875	2,772	5,455	1,362	23,413	22,953	4,435	12,200	1,983	4,335
1995		28,761	5,118	6,748	1,767	25,932	24,962	4,659	13,738	2,136	4,422
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	22,810	4,168	16,745	1,231	665
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 ^p		53,892	32	27,906	1,368	26,480	26,450	3,037	21,234	958	1,221
2015	3	4,502	4	2,365	1,504	2,132	2,131	259	1,678	79	116
	4	4,053	5	1,912	1,508	2,091	2,090	195	1,732	71	91
	5	4,287	2	2,271	1,426	2,073	2,071	250	1,659	72	89
	6	4,500	1	2,307	1,647	1,962	1,961	188	1,623	69	82
	7	4,556	3	2,401	1,817	1,939	1,938	180	1,610	64	84
	8	4,675	3	2,634	1,680	2,171	2,170	221	1,801	68	80
	9	4,300	3	2,488	1,390	2,087	2,087	277	1,644	80	85
	10	4,420	2	2,184	1,366	2,243	2,241	248	1,806	89	97
	11	4,200	12	2,078	1,392	2,107	2,106	227	1,690	84	105
	12	4,923	1	2,307	1,761	2,238	2,235	246	1,779	90	120
2016 ^p	1	4,484	-	2,502	1,565	2,151	2,150	260	1,704	73	112
	2	4,427	-	2,238	1,786	1,957	1,956	264	1,496	81	115
	3	4,562	6	2,248	1,890	2,211	2,209	292	1,708	81	128
	4	4,182	1	2,369	1,512	2,221	2,219	212	1,833	74	100
	5	4,630	3	2,378	1,458	2,276	2,270	274	1,820	80	96
	6	4,485	4	2,098	1,741	2,114	2,111	244	1,700	72	95
	7	4,743	3	2,461	1,991	1,992	1,989	176	1,674	65	75
	8	4,564	3	2,272	1,931	2,397	2,395	234	1,997	73	90
	9	4,380	2	2,286	1,841	2,191	2,189	277	1,742	85	86
	10	4,435	3	2,239	1,879	2,228	2,225	273	1,768	87	98
	11	4,176	2	2,257	1,499	2,264	2,261	222	1,847	91	102
	12	4,825	5	2,559	1,368	2,479	2,476	308	1,945	97	126
2017 ^p	1	4,721	2	2,357	1,829	1,959	1,958	207	1,582	70	98
	2	4,145	2	2,159	1,915	1,962	1,961	146	1,637	70	108
	3	4,534	4	2,644	1,565	2,281	2,279	215	1,858	91	116
2016 ^p	1-3	13,472	6	6,988	1,890	6,320	6,315	816	4,909	235	355
2017 ^p	1-3	13,400	8	7,160	1,565	6,202	6,198	567	5,077	232	322

1. 1차에너지 공급량
자료: 한국석유공사-PEDSIS

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

3.11 등유 수급

Kerosene supply and demand

		생산	수입	수출	재고	공급 ¹	소비 Consumption				
		Production	Import	Export	Stock	Supply	합계	산업	수송	가정	상업·공공
		Total	Industry	Transport	Residential	Commercial/ Public					
1,000 kℓ											
1990		2,152	2,777	15	991	3,965	...	...	...	...	...
1991		2,161	1,553	-	309	4,070	4,069	761	24	1,892	1,392
1992		4,660	1,429	1	521	5,445	5,444	812	38	2,925	1,668
1993		5,074	2,546	1	795	6,878	6,877	1,288	167	3,956	1,466
1994		5,136	2,717	74	947	7,605	7,604	885	35	4,333	2,351
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	6,735	906	17	3,981	1,831
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 ^p		3,103	3	328	353	3,030	2,956	183	17	2,105	651
2015	3	172	1	23	328	214	214	13	1	151	49
	4	126	-	20	330	135	135	8	1	94	32
	5	152	-	45	376	75	75	5	0	53	17
	6	98	-	30	368	71	71	6	0	47	17
	7	133	-	45	409	66	66	6	0	44	16
	8	80	-	23	371	115	114	12	0	81	21
	9	166	-	31	405	145	145	13	1	105	27
	10	188	-	46	325	248	248	17	1	186	44
	11	371	-	37	387	284	284	15	2	205	62
	12	383	1	42	354	420	419	22	1	304	92
2016 ^p	1	530	2	80	282	570	570	28	3	405	133
	2	472	1	23	339	414	413	26	2	292	93
	3	344	-	19	417	296	295	17	2	208	68
	4	136	-	-	400	141	140	10	1	98	31
	5	138	-	9	433	103	103	10	1	69	23
	6	78	-	9	433	73	71	5	0	46	19
	7	139	-	-	510	66	60	7	0	39	13
	8	45	-	28	411	116	106	9	0	74	22
	9	144	-	16	425	154	145	11	1	108	25
	10	210	-	5	410	240	223	15	1	165	42
	11	322	-	25	354	356	339	18	2	243	76
	12	546	-	114	353	502	492	26	3	358	105
2017 ^p	1	628	1	174	398	456	452	23	2	328	98
	2	479	-	72	448	400	384	21	1	280	82
	3	132	-	33	325	280	267	15	1	199	52
2016 ^p	1-3	1,345	3	121	417	1,279	1,278	71	7	906	294
2017 ^p	1-3	1,239	1	279	325	1,135	1,103	59	4	807	232

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

		생산	수입	수출	재고	공급 ¹	소비 Consumption				
							합계	산업	수송	가정	상업·공공
		Production	Import	Export	Stock	Supply	otal	Industry	Transport	Residential	Commercial/ Public
1,000 kℓ											
1990		16,366	4,397	1,922	576	17,278	...	...	...	...	...
1991		23,559	5,439	6,030	984	20,180	13,672	10,181	1,589	932	970
1992		28,518	5,449	8,062	1,492	22,971	15,132	11,202	1,925	993	1,012
1993		30,067	5,187	7,900	1,318	23,853	16,115	11,447	2,439	797	1,432
1994		31,221	5,642	6,372	1,773	26,098	17,396	12,544	2,796	1,134	921
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	11,733	7,461	3,665	325	282
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 ^p		11,282	7,373	2,066	1,651	7,543	4,532	1,435	2,900	55	141
2015	3	887	734	200	1,714	706	358	114	219	6	18
	4	917	476	128	1,832	506	326	105	208	5	9
	5	903	335	37	1,928	406	310	110	181	3	16
	6	777	417	169	1,949	354	305	96	202	1	6
	7	811	345	200	1,845	334	310	102	199	2	6
	8	776	534	233	1,939	341	272	98	167	2	6
	9	534	879	110	2,013	399	331	109	211	3	8
	10	524	725	119	1,918	448	343	118	214	3	9
	11	953	1,073	183	2,219	726	375	115	245	5	10
	12	777	744	144	1,879	780	414	136	257	9	13
2016 ^p	1	912	713	128	1,702	815	399	122	255	9	13
	2	973	742	132	1,825	724	355	122	210	10	13
	3	1,064	891	170	1,877	817	421	131	268	8	13
	4	951	648	232	1,840	602	342	111	215	4	11
	5	855	525	181	1,777	575	381	125	239	3	13
	6	752	617	72	1,808	502	340	109	220	1	10
	7	841	700	79	1,892	629	381	112	260	2	8
	8	891	616	133	1,822	519	350	107	233	1	9
	9	722	509	180	1,723	461	359	118	231	2	8
	10	1,127	400	240	1,793	583	388	118	255	3	11
	11	1,206	495	264	1,891	562	380	125	239	4	12
	12	988	518	256	1,651	755	437	136	274	8	18
2017 ^p	1	947	565	81	1,658	653	396	106	269	6	15
	2	959	526	90	1,793	602	382	98	267	6	10
	3	828	514	172	1,734	490	425	118	290	6	12
2016 ^p	1-3	2,949	2,346	430	1,877	2,355	1,175	375	733	27	40
2017 ^p	1-3	2,734	1,606	342	1,734	1,745	1,202	321	826	18	37

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

		생산	수입	수출	재고	공급 ¹	소비 Consumption				
							합계	산업	수송	가정	상업·공공
		Production	Import	Export	Stock	Supply	Total	Industry	Transport	Residential	Commercial/ Public
1,000 ton											
1990		1,065	2,247	94	203	3,020	...	...	...	...	...
1991		1,131	2,503	116	143	3,637	3,266	368	1,076	1,807	14
1992		1,296	3,298	58	217	4,563	4,038	842	1,178	1,971	48
1993		1,234	3,798	117	196	5,022	4,298	2,336	1,258	399	305
1994		1,303	4,044	116	91	5,365	4,544	996	1,410	2,111	28
1995		1,399	4,398	248	79	5,593	4,568	860	1,496	2,189	23
1996		1,390	4,578	300	72	5,760	4,809	885	1,577	2,327	21
1997		1,835	4,739	385	352	6,035	5,403	1,314	1,686	2,371	32
1998		2,428	4,075	887	333	5,769	5,432	1,569	1,771	1,890	201
1999		2,673	4,790	1,158	259	6,552	6,188	1,700	2,202	2,124	162
2000		3,091	4,677	688	262	7,261	7,002	1,625	2,926	2,335	117
2001		3,498	4,059	416	217	7,296	7,144	1,418	3,344	2,282	100
2002		3,603	4,745	247	412	7,903	7,767	1,710	3,584	2,338	136
2003		3,395	4,276	247	459	7,690	7,615	1,567	3,742	2,180	127
2004		3,430	4,037	83	538	7,705	7,633	1,699	3,869	1,951	113
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 ^p		2,290	7,025	155	274	9,387	9,298	4,274	3,518	579	927
2015	3	180	402	7	201	621	616	159	313	54	89
	4	170	408	6	268	534	529	140	284	38	66
	5	201	378	19	259	618	611	174	324	39	74
	6	195	440	7	328	595	589	210	284	30	64
	7	202	548	3	356	748	741	300	335	35	71
	8	201	357	5	263	671	665	245	330	29	62
	9	178	546	9	356	630	623	224	303	31	64
	10	173	615	7	418	710	702	249	319	47	87
	11	170	463	5	333	712	706	248	311	48	99
	12	185	509	18	312	721	716	236	305	66	110
2016 ^p	1	183	479	22	300	666	662	232	276	63	91
	2	188	476	14	297	676	669	249	275	63	82
	3	199	416	16	179	747	739	284	304	59	92
	4	178	670	7	313	726	717	314	285	45	72
	5	209	460	6	244	756	745	329	306	42	67
	6	204	628	12	333	752	742	379	277	32	54
	7	204	575	11	343	795	786	400	302	30	54
	8	198	598	4	285	854	845	430	323	31	61
	9	157	708	7	321	834	827	419	302	39	67
	10	153	706	8	287	854	848	423	298	48	79
	11	210	767	15	408	861	856	408	288	57	104
	12	207	543	33	274	867	862	407	282	69	104
2017 ^p	1	204	631	18	250	863	856	386	288	75	107
	2	212	474	24	231	726	720	307	255	70	89
	3	241	517	13	293	710	698	298	265	53	82
2016 ^p	1-3	570	1,370	53	179	2,088	2,070	765	855	186	265
2017 ^p	1-3	657	1,622	55	293	2,299	2,274	990	808	198	278

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

		생산	수입	수출	재고	공급 ¹	소비 Consumption					
		Production	Import	Export	Stock	Supply	합계	산업	수송	가정	상업·공공 Commercial/ Public	
		1,000 ton										
1990		3,861	1,676	362	185	5,173	...	...	-	-	-	
1991		5,771	2,705	612	334	7,144	7,144	7,144	-	-	-	
1992		7,099	5,216	591	696	10,570	10,570	10,570	-	-	-	
1993		7,123	6,790	1,124	731	11,812	11,812	11,812	-	-	-	
1994		7,394	7,851	995	681	13,411	13,411	13,411	-	-	-	
1995		9,608	7,815	2,321	579	14,303	14,303	14,303	-	-	-	
1996		11,219	8,725	3,347	737	15,369	15,369	15,369	-	-	-	
1997		16,788	8,630	4,019	879	21,205	21,205	21,205	-	-	-	
1998		16,735	11,434	4,879	868	23,265	23,265	23,265	-	-	-	
1999		17,890	11,001	5,028	673	23,815	23,815	23,815	-	-	-	
2000		18,169	12,106	5,314	753	24,917	24,917	24,915	-	-	2	
2001		17,697	13,026	5,573	996	25,379	25,379	25,379	-	-	-	
2002		17,832	13,263	4,889	829	26,687	26,687	26,687	-	-	-	
2003		16,201	14,358	3,369	639	27,460	27,460	27,460	-	-	-	
2004		18,259	14,291	3,390	1,194	28,597	28,597	28,597	-	-	-	
2005		19,187	13,413	2,806	1,257	29,726	29,726	29,726	-	-	-	
2006		19,916	13,812	3,045	1,159	31,223	31,223	31,223	-	-	-	
2007		21,405	15,640	3,201	1,048	34,470	34,470	34,470	-	-	-	
2008		18,901	16,686	2,493	1,065	33,873	33,873	33,873	-	-	-	
2009		17,304	19,673	2,890	906	35,097	35,097	35,097	-	-	-	
2010		18,464	20,517	3,493	961	36,098	36,098	36,098	-	-	-	
2011		21,225	20,507	3,850	958	38,641	38,641	38,641	-	-	-	
2012		22,530	22,567	3,621	1,283	41,840	41,840	41,840	-	-	0	
2013		22,589	22,660	4,303	1,384	41,802	41,802	41,802	-	-	-	
2014		23,726	22,381	3,847	1,394	43,117	43,117	43,117	-	-	-	
2015		27,190	21,498	5,204	1,319	44,691	44,691	44,691	-	-	-	
2016 ^p		27,919	21,999	5,414	1,348	46,436	46,436	46,436	-	-	-	
2015	3	2,118	1,670	355	1,205	3,768	3,768	3,768	-	-	-	
	4	2,279	1,686	437	1,093	3,707	3,707	3,707	-	-	-	
	5	2,342	1,588	510	1,160	3,380	3,380	3,380	-	-	-	
	6	2,383	1,588	501	1,098	3,632	3,632	3,632	-	-	-	
	7	2,411	1,832	405	1,404	3,610	3,610	3,610	-	-	-	
	8	2,411	1,748	474	1,167	4,006	4,006	4,006	-	-	-	
	9	2,036	1,776	356	1,216	3,559	3,559	3,559	-	-	-	
	10	2,116	1,729	425	1,061	3,694	3,694	3,694	-	-	-	
	11	2,142	1,985	508	1,117	3,699	3,699	3,699	-	-	-	
	12	2,605	1,998	493	1,319	4,026	4,026	4,026	-	-	-	
	2016 ^p	1	2,384	2,033	387	1,458	4,031	4,031	4,031	-	-	-
		2	2,686	1,571	322	1,442	4,096	4,096	4,096	-	-	-
3		2,049	1,870	373	1,460	3,713	3,713	3,713	-	-	-	
4		1,919	1,620	434	1,339	3,403	3,403	3,403	-	-	-	
5		2,254	1,814	495	1,210	3,892	3,892	3,892	-	-	-	
6		2,149	1,696	334	1,110	3,783	3,783	3,783	-	-	-	
7		2,261	1,991	543	1,220	3,770	3,770	3,770	-	-	-	
8		2,435	2,093	426	1,413	4,088	4,088	4,088	-	-	-	
9		2,213	1,885	470	1,442	3,798	3,798	3,798	-	-	-	
10		2,209	1,760	548	1,360	3,835	3,835	3,835	-	-	-	
11		2,576	1,801	461	1,381	3,917	3,917	3,917	-	-	-	
12		2,784	1,866	620	1,348	4,110	4,110	4,110	-	-	-	
2017 ^p	1	2,986	1,666	483	1,232	4,276	4,276	4,276	-	-	-	
	2	2,669	1,700	390	1,251	3,957	3,957	3,957	-	-	-	
	3	2,898	1,951	375	1,246	4,435	4,435	4,435	-	-	-	
2016 ^p	1-3	7,119	5,474	1,083	1,460	11,840	11,840	11,840	-	-	-	
2017 ^p	1-3	8,553	5,317	1,248	1,246	12,668	12,668	12,668	-	-	-	

자료: 한국석유공사-PEDSIS

Source: Korea National Oil Corporation-PEDSIS

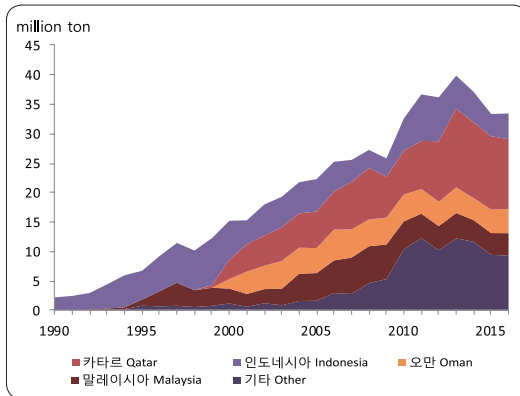
4. 가스

Natural gas & City gas

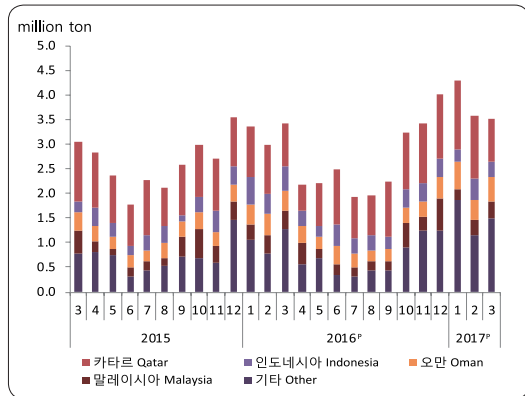


□ 천연가스 수입 Natural gas import

<1990~2016^P>

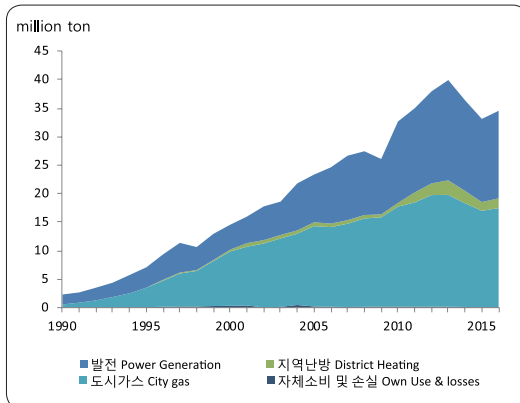


<월별 Monthly>

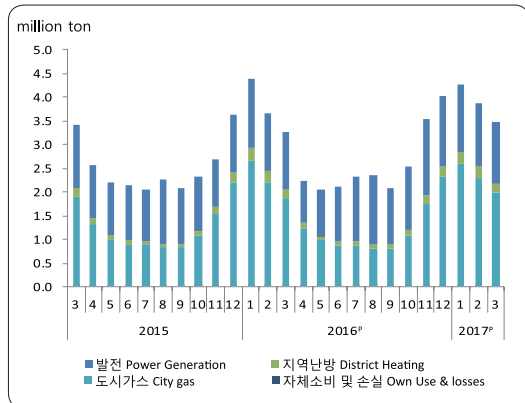


□ 천연가스 소비 Natural gas consumption

<1990~2016^P>

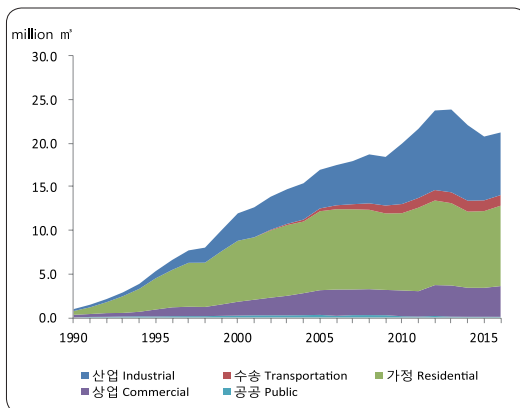


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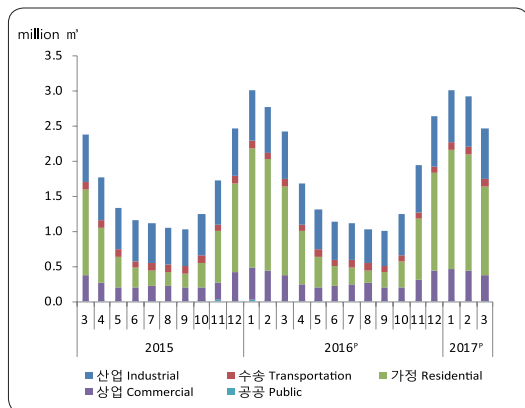


□ 도시가스 소비 City gas consumption

<1990~2016^P>



<월별 Monthly>



4.1. 천연가스 수입

Natural gas import

	카고수 ¹	수입액 Import value million US\$	수입량 Import volume							
			합계 Total	카타르 Qatar	인도네시아 Indonesia	오만 Oman	말레이시아 Malaysia	기타 ² Other		
			1,000 ton							
unit										
1990	41	460	2,237	-	2,237	-	0	-		
1991	49	485	2,494	-	2,436	-	58	-		
1992	61	562	2,994	-	2,935	-	58	-		
1993	79	781	4,459	-	4,112	-	290	57		
1994	105	961	5,996	-	5,433	-	292	271		
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	486	18,779	33,366	12,442	3,776	3,990	3,698	9,459		
2016 ^p	500	12,170	33,453	11,880	4,362	4,081	3,813	9,317		
2015	3	43	2,066	3,038	1,201	234	366	470	767	
	4	41	1,707	2,819	1,117	358	305	228	811	
	5	36	1,163	2,353	940	297	242	118	756	
	6	27	838	1,771	849	184	243	169	325	
	7	29	1,042	2,262	1,109	302	233	173	444	
	8	33	1,018	2,117	767	360	293	174	522	
	9	37	1,295	2,593	1,048	126	290	417	712	
	10	44	1,500	2,971	1,054	287	348	608	674	
	11	43	1,335	2,697	1,055	420	302	344	577	
	12	45	1,609	3,551	999	360	363	362	1,465	
	2016 ^p	1	54	1,403	3,370	1,050	542	424	288	1,066
		2	44	1,208	3,001	995	422	433	369	782
3		56	1,289	3,425	878	482	426	378	1,262	
4		32	745	2,176	526	296	367	417	570	
5		35	689	2,214	875	233	243	173	690	
6		34	735	2,478	1,114	427	365	231	341	
7		30	586	1,918	823	303	305	180	308	
8		30	651	1,967	822	292	241	173	439	
9		30	786	2,227	1,110	260	243	174	440	
10		48	1,232	3,250	1,179	363	305	494	909	
11		50	1,326	3,415	1,206	366	303	285	1,255	
12		57	1,520	4,011	1,302	375	426	652	1,256	
2017 ^p	1	63	1,769	4,291	1,402	244	563	226	1,856	
	2	50	1,495	3,583	1,286	421	429	285	1,162	
	3	50	1,428	3,513	882	302	491	350	1,487	
2016 ^p	1-3	154	3,901	9,796	2,922	1,446	1,283	1,035	3,110	
2017 ^p	1-3	163	4,692	11,388	3,571	967	1,483	862	4,505	

1. 1카고는 58,000톤

1. 1 cargo is 58,000 tons.

2. 나이지리아, 예멘, 브루나이, 페루, 적도기니 등

2. Nigeria, Yemen, Brunei, Peru, Equatorial Guinea etc.

자료: 한국가스공사, 한국무역협회

Source: Korea Gas Corporation, Korea International Trade Association

4.2 천연가스 생산 및 소비

Natural gas production and consumption

		국내생산 Domestic production	소비 Consumption					재고 Stock
			합계 ¹ Total	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
1991		-	2,694	1,800	-	879	15	110
1992		-	3,524	2,225	-	1,256	43	67
1993		-	4,402	2,518	-	1,847	37	97
1994		-	5,860	3,215	-	2,451	80	157
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		-	17,768	5,900	609	11,194	65	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	17,577	2,552	19,596	195	2,237
2014		247	36,636	15,880	2,161	18,180	144	3,182
2015		144	33,446	14,570	1,538	16,929	73	3,034
2016 ^p		118	34,858	15,344	1,707	17,384	97	1,695
2015	3	15	3,448	1,337	173	1,900	11	2,246
	4	14	2,599	1,122	132	1,316	1	2,318
	5	14	2,215	1,095	103	986	3	2,627
	6	12	2,157	1,155	85	888	2	2,353
	7	10	2,065	1,086	64	887	1	2,280
	8	10	2,289	1,365	76	817	3	2,315
	9	10	2,104	1,174	69	831	4	2,820
	10	5	2,360	1,159	108	1,060	6	3,421
	11	10	2,727	1,003	165	1,524	7	3,529
	12	10	3,671	1,229	204	2,200	8	3,034
2016 ^p	1	10	4,415	1,467	252	2,646	19	2,207
	2	9	3,676	1,217	221	2,191	18	1,471
	3	10	3,301	1,234	184	1,850	7	1,819
	4	5	2,248	864	135	1,219	5	1,678
	5	9	2,077	990	74	979	4	1,970
	6	5	2,143	1,164	75	873	4	2,152
	7	12	2,356	1,359	93	875	2	1,709
	8	0	2,375	1,441	94	804	9	1,357
	9	0	2,115	1,204	77	805	2	1,446
	10	13	2,564	1,340	111	1,082	6	2,131
	11	21	3,551	1,596	184	1,736	9	1,991
	12	25	4,036	1,468	207	2,323	12	1,695
2017 ^p	1	25	4,289	1,426	240	2,575	18	1,789
	2	22	3,879	1,331	226	2,275	22	1,512
	3	25	3,513	1,328	178	1,960	20	1,593
2016 ^p	1-3	29	11,392	3,918	657	6,687	44	1,819
2017 ^p	1-3	72	11,681	4,085	644	6,811	60	1,593

1. 산업부문 소비 포함.

자료: 한국가스공사

1. Include industry consumption.

Source: Korea Gas Corporation

4.3 도시가스 공급

City Gas supply and demand

		원료 Raw materials		생산 ¹ Production	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	-	
1991		364	1,081	1,450	1,467	298	-	771	333	64	
1992		521	1,544	2,139	2,114	359	-	1,251	425	78	
1993		705	2,262	3,071	2,883	438	-	1,920	413	112	
1994		815	2,993	3,917	3,864	572	-	2,637	518	136	
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	15,420	4,173	226	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 ^p		15	21,643	21,753	21,253	7,194	1,216	9,236	3,529	77	
2015	3	1	2,277	2,279	2,382	686	104	1,228	355	9	
	4	1	1,633	1,634	1,767	618	102	786	256	6	
	5	1	1,258	1,258	1,320	574	104	445	194	3	
	6	1	1,070	1,071	1,146	568	103	272	200	3	
	7	1	1,065	1,066	1,117	563	109	223	219	3	
	8	1	1,000	1,001	1,053	521	108	196	225	3	
	9	1	1,057	1,058	1,034	529	102	207	193	3	
	10	1	1,241	1,241	1,235	580	105	357	191	3	
	11	1	1,781	1,782	1,716	620	101	735	243	17	
	12	2	2,727	2,730	2,463	686	104	1,268	396	10	
	2016 ^p	1	2	3,295	3,312	3,011	733	100	1,687	478	13
2		2	2,728	2,742	2,767	645	93	1,601	416	12	
3		1	2,303	2,314	2,407	668	102	1,275	353	9	
4		1	1,518	1,526	1,686	593	99	751	239	5	
5		1	1,219	1,226	1,301	556	102	437	202	3	
6		1	1,087	1,092	1,130	534	103	271	219	3	
7		1	1,089	1,095	1,105	525	107	228	241	4	
8		1	1,001	1,007	1,028	486	107	174	256	4	
9		1	1,002	1,007	1,003	499	99	203	200	3	
10		1	1,347	1,354	1,249	587	103	362	193	3	
11		1	2,162	2,173	1,934	661	100	871	296	6	
12		1	2,892	2,906	2,632	706	103	1,377	437	10	
2017 ^p	1	3	3,206	3,223	2,998	742	97	1,691	456	12	
	2	3	2,833	2,848	2,908	717	91	1,659	427	12	
	3	2	2,440	2,453	2,466	721	101	1,279	355	10	
2016 ^p	1-3	6	8,326	8,368	8,185	2,047	294	4,562	1,247	35	
2017 ^p	1-3	7	8,479	8,524	8,371	2,181	289	4,629	1,238	34	

1. 1990, 1991년은 납사 포함.

자료: 한국도시가스협회

1. Figures in 1990 and 1991 include naphtha.

Source: Korea City Gas Association

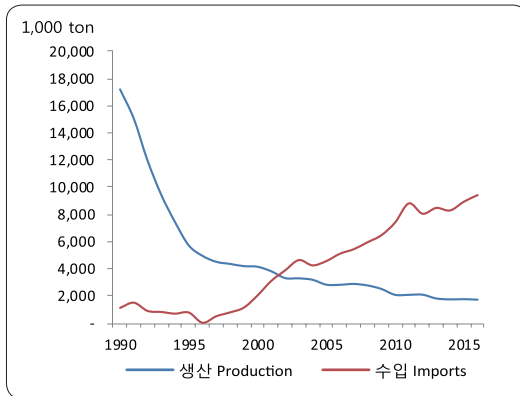
5. 석 탄

Coal

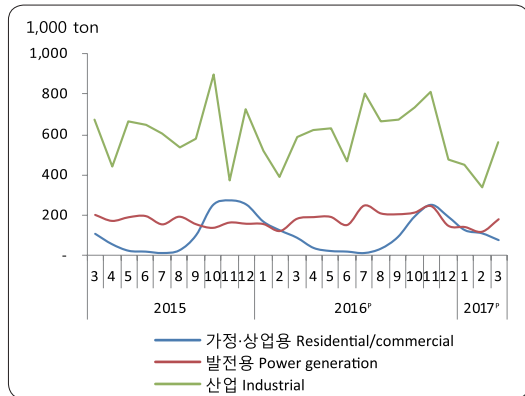


□ 무연탄 수급 Anthracite supply and demand

<1990~2016^P>

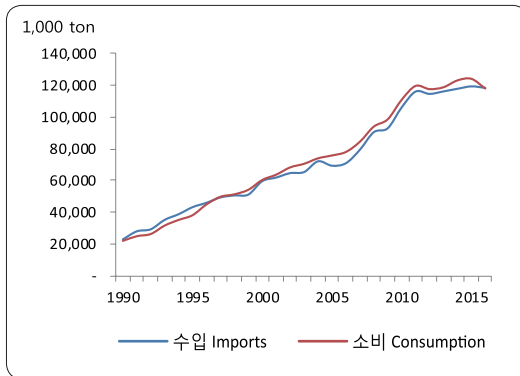


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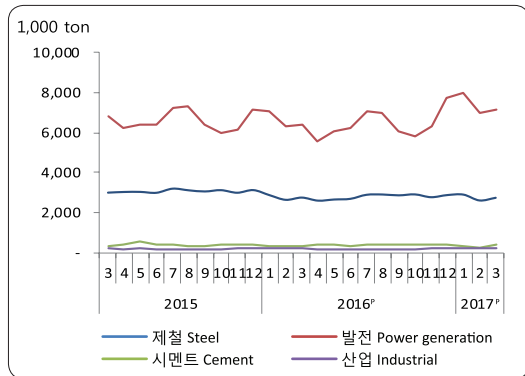


□ 유연탄 수급 Bituminous coal supply and demand

<1990~2016^P>

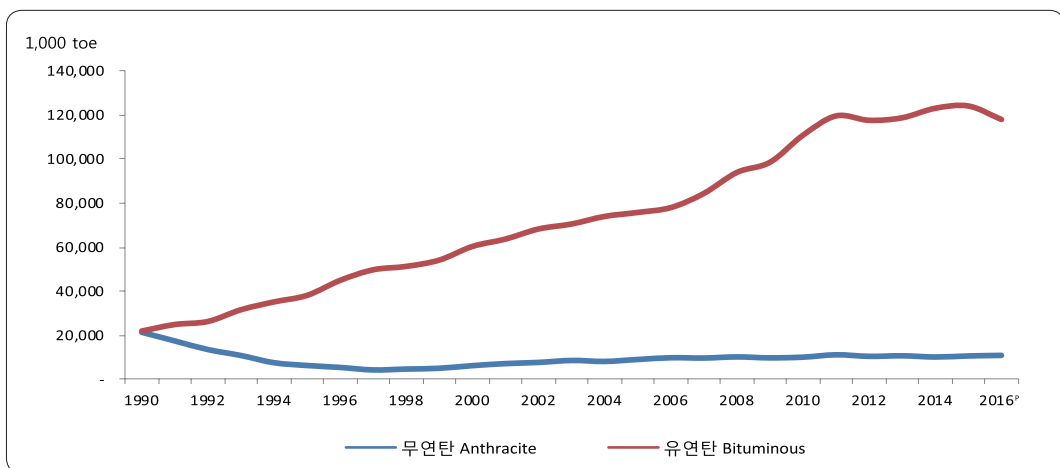


<월별 Monthly>



□ 석탄 소비 Coal consumption

<1990~2016^P>



5.1 무연탄 수급

Anthracite supply and demand

		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	1,121	21,529	19,802	1,727	6,514	1,499
1991		15,058	1,505	17,557	15,938	1,619	6,859	1,413
1992		11,970	898	13,597	12,290	1,307	6,706	1,019
1993		9,443	820	10,867	9,749	1,118	6,288	819
1994		7,438	696	7,549	6,817	732	6,780	943
1995		5,720	778	6,263	5,367	896	7,422	1,086
1996		4,951	27	5,370	4,406	964	7,898	1,039
1997		4,514	507	4,230	3,659	571	8,744	976
1998		4,361	789	4,631	3,812	819	9,342	927
1999		4,197	1,139	4,992	3,803	1,189	9,863	874
2000		4,150	2,038	6,196	4,158	2,038	9,903	871
2001		3,817	3,110	7,137	4,027	3,110	9,709	867
2002		3,318	3,879	7,687	3,808	3,879	9,282	819
2003		3,298	4,640	8,581	3,924	4,657	8,728	799
2004		3,191	4,251	8,137	3,871	4,266	8,222	672
2005		2,832	4,567	9,034	4,347	4,687	6,839	549
2006		2,824	5,113	9,829	4,596	5,233	5,062	489
2007		2,886	5,444	9,698	4,035	5,663	3,953	278
2008		2,773	5,955	10,215	4,134	6,081	2,677	120
2009		2,519	6,468	9,777	3,114	6,663	2,122	116
2010		2,084	7,406	10,104	2,508	7,596	1,779	74
2011		2,084	8,817	11,182	2,239	8,943	1,663	57
2012		2,094	8,055	10,479	2,288	8,191	1,554	74
2013		1,815	8,482	10,722	2,054	8,668	1,342	115
2014		1,748	8,294	10,173	1,642	8,531	1,484	126
2015		1,764	8,938	10,657	1,541	9,115	1,731	67
2016 ^p		1,726	9,424	10,919	1,373	9,546	2,088	63
2015	3	158	860	989	114	875	1,450	107
	4	158	595	677	74	603	1,537	109
	5	126	839	883	41	842	1,672	106
	6	162	821	868	45	824	1,750	117
	7	154	734	772	36	736	1,871	119
	8	127	708	756	44	712	1,951	125
	9	140	717	840	111	729	1,981	124
	10	153	1,022	1,291	243	1,049	1,898	114
	11	156	515	812	269	543	1,790	93
	12	159	867	1,136	242	894	1,731	67
2016 ^p	1	140	660	845	165	680	1,725	39
	2	124	499	640	127	513	1,679	65
	3	154	747	859	101	758	1,736	68
	4	143	800	858	54	804	1,826	77
	5	143	810	852	39	813	1,933	90
	6	149	602	646	42	604	2,043	93
	7	147	1,028	1,069	40	1,029	2,145	97
	8	133	847	910	59	851	2,222	96
	9	137	856	970	103	867	2,267	92
	10	146	932	1,140	188	952	2,202	102
	11	159	1,036	1,311	255	1,056	2,135	69
	12	151	607	819	200	619	2,088	63
2017 ^p	1	127	576	721	137	584	2,088	58
	2	132	435	572	130	442	2,086	51
	3	144	714	819	100	719	2,130	46
2016 ^p	1-3	418	1,906	2,344	393	1,951	1,736	68
2017 ^p	1-3	403	1,725	2,112	367	1,745	2,130	46

자료: 대한석탄협회, 산업통상자원부

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

5.2 부문별 무연탄 소비

Anthracite consumption by sector

		가정·상업			발전		산업용	기타	합계
		Residential/Commercial			Power generation				
		국내탄	수입탄	소계	수입탄	소계			
		Domestic coal	Import coal	Subtotal	Import coal	Subtotal	Industrial	Others	Total
		1,000 ton							
1990		17,602	1,615	19,217	-	1,983	283	46	21,529
1991		13,850	1,334	15,184	97	2,070	303	-	17,557
1992		10,364	825	11,189	82	1,945	443	20	13,597
1993		7,493	344	7,837	70	2,272	758	-	10,867
1994		4,617	67	4,684	41	2,192	673	-	7,549
1995		2,987	18	3,005	100	2,421	837	-	6,263
1996		1,957	4	1,961	93	2,514	895	-	5,370
1997		1,389	-	1,389	64	2,305	536	-	4,230
1998		1,229	-	1,229	30	2,451	951	-	4,631
1999		1,117	-	1,117	50	2,552	1,323	-	4,992
2000		1,192	-	1,192	-	2,850	2,155	-0	6,196
2001		1,230	-	1,230	-	2,689	3,217	-0	7,137
2002		1,175	-	1,175	-	2,558	3,954	0	7,687
2003		1,174	17	1,191	-	2,710	4,680	-	8,581
2004		1,370	15	1,385	-	2,356	4,396	-0	8,137
2005		1,959	51	2,010	-	2,354	4,670	-	9,034
2006		2,224	103	2,327	-	2,356	5,146	0	9,829
2007		1,872	219	2,091	-	2,156	5,451	-	9,698
2008		2,163	126	2,289	-	1,960	5,966	-	10,215
2009		1,746	195	1,941	-	1,360	6,476	-	9,777
2010		1,669	190	1,859	-	839	7,406	-	10,104
2011		1,696	126	1,822	-	543	8,817	-	11,182
2012		1,697	136	1,833	-	591	8,055	-	10,479
2013		1,731	186	1,917	-	323	8,482	-	10,722
2014		1,392	237	1,629	1,794	2,044	6,500	-	10,173
2015		1,296	177	1,473	1,880	2,125	7,058	-	10,657
2016 ^p		1,133	122	1,255	2,038	2,278	7,385	-	10,919
2015	3	94	15	109	183	203	677	-	989
	4	50	8	58	149	173	446	-	677
	5	22	3	25	173	192	666	-	883
	6	18	3	21	171	197	650	-	868
	7	12	2	14	132	156	602	-	772
	8	23	4	27	173	194	535	-	756
	9	90	12	102	136	157	581	-	840
	10	224	27	251	120	139	902	-	1,291
	11	247	28	275	143	165	372	-	812
	12	227	27	254	144	159	723	-	1,136
2016 ^p	1	150	20	170	143	158	517	-	845
	2	112	14	126	108	123	391	-	640
	3	79	11	90	162	184	586	-	859
	4	35	4	39	173	192	627	-	858
	5	21	3	24	175	193	635	-	852
	6	19	2	21	130	153	472	-	646
	7	13	1	14	222	249	805	-	1,069
	8	32	4	36	183	210	663	-	910
	9	82	11	93	185	206	671	-	970
	10	175	20	195	202	215	730	-	1,140
	11	233	20	253	224	246	812	-	1,311
	12	182	12	194	131	149	476	-	819
2017 ^p	1	119	8	127	125	143	451	-	721
	2	105	7	112	94	119	341	-	572
	3	73	5	78	154	181	560	-	819
2016 ^p	1-3	341	45	386	412	464	1,494	-	2,344
2017 ^p	1-3	297	20	317	373	443	1,352	-	2,111

자료: 대한석탄협회, 산업통상자원부

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

5.3 유연탄 수급

Bituminous coal supply and demand

		수입 Import			소비 Consumption		
		합계 Total	원료탄 Coking coal	연료탄 Thermal coal	합계 Total	원료탄 Coking coal	연료탄 Thermal coal
		1,000 ton					
1990		22,848	11,287	11,561	21,876	11,735	10,141
1991		27,906	15,572	12,334	24,835	13,951	10,884
1992		29,208	16,381	12,827	26,217	14,375	11,842
1993		35,158	17,321	17,837	31,552	15,972	15,580
1994		38,710	16,902	21,808	35,111	15,750	19,361
1995		43,166	17,151	26,015	38,089	16,305	21,784
1996		45,925	18,227	27,698	44,907	17,361	27,546
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	60,329	19,415	40,914
2001		61,856	17,899	43,957	63,686	19,315	44,372
2002		64,640	17,660	46,980	68,264	20,097	48,167
2003		65,318	17,676	47,642	70,539	20,509	50,031
2004		72,103	18,954	53,149	73,978	20,839	53,139
2005		69,330	16,975	52,355	75,788	20,810	54,978
2006		70,888	16,466	54,422	77,998	20,731	57,267
2007		79,355	18,385	60,970	84,430	21,519	62,911
2008		90,470	20,912	69,558	93,983	23,568	70,415
2009		92,952	19,553	73,399	98,602	20,734	77,868
2010		106,096	24,328	81,768	110,926	27,210	83,716
2011		116,118	26,157	89,961	119,678	31,762	87,916
2012		114,645	25,857	88,788	117,667	31,487	86,180
2013		116,220	31,361	84,859	118,832	32,053	86,779
2014		117,873	35,198	82,675	123,149	37,611	85,538
2015		119,392	34,148	85,244	124,180	36,753	87,427
2016 ^p		118,469	33,030	85,439	118,041	33,460	84,581
2015	3	9,758	2,812	6,946	10,462	3,010	7,451
	4	11,154	3,220	7,934	9,869	3,045	6,824
	5	9,030	2,655	6,375	10,283	3,049	7,234
	6	10,208	3,062	7,146	9,989	3,003	6,986
	7	10,624	3,127	7,497	11,084	3,217	7,867
	8	9,718	2,464	7,254	10,973	3,131	7,842
	9	9,464	2,943	6,521	9,991	3,072	6,919
	10	9,550	2,870	6,680	9,690	3,139	6,551
	11	8,665	2,738	5,927	9,773	3,005	6,768
	12	10,829	2,556	8,273	10,980	3,142	7,838
2016 ^p	1	10,509	2,891	7,618	10,510	2,878	7,631
	2	8,348	2,255	6,093	9,477	2,637	6,841
	3	10,249	2,931	7,318	9,631	2,753	6,878
	4	9,543	2,824	6,719	8,774	2,594	6,180
	5	8,604	2,478	6,126	9,319	2,653	6,666
	6	8,853	2,550	6,303	9,470	2,688	6,782
	7	9,603	2,650	6,953	10,571	2,898	7,674
	8	9,821	2,738	7,083	10,472	2,913	7,559
	9	11,055	2,850	8,205	9,537	2,870	6,668
	10	9,216	2,765	6,451	9,324	2,919	6,406
	11	9,888	2,827	7,061	9,702	2,773	6,930
	12	12,780	3,271	9,509	11,252	2,884	8,368
2017 ^p	1	12,226	3,093	9,133	11,474	2,908	8,566
	2	11,070	2,834	8,236	10,065	2,604	7,461
	3	11,001	2,860	8,141	10,508	2,743	7,765
2016 ^p	1-3	29,106	8,077	21,029	29,619	8,268	21,351
2017 ^p	1-3	34,297	8,787	25,510	32,047	8,254	23,793

자료 : 대한석탄협회, 산업통상자원부

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

5.4 부문별 유연탄 소비

Bituminous coal consumption by sector

		합계 Total	제철 Steel	발전 Power generation	시멘트 Cement	산업 Industrial
		1,000 ton				
1990		21,876	11,735	5,723	3,534	882
1991		24,835	13,951	5,776	4,223	885
1992		26,217	14,375	6,322	4,392	1,127
1993		31,552	15,972	9,008	5,143	1,429
1994		35,111	15,750	12,376	5,310	1,675
1995		38,089	16,305	14,229	5,590	1,965
1996		44,907	17,361	18,948	6,448	2,151
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		60,329	19,415	33,305	5,308	2,301
2001		63,686	19,315	36,601	5,475	2,296
2002		68,264	20,097	40,143	5,669	2,355
2003		70,539	20,509	41,631	6,060	2,339
2004		73,978	20,839	45,512	5,309	2,318
2005		75,788	20,810	47,852	4,807	2,319
2006		77,998	20,731	50,199	4,738	2,330
2007		84,430	21,519	55,487	5,051	2,374
2008		93,983	23,568	62,791	5,236	2,388
2009		98,602	20,734	71,091	4,463	2,314
2010		110,926	27,210	76,674	4,564	2,478
2011		119,678	31,762	80,393	5,046	2,477
2012		117,667	31,487	79,136	4,625	2,419
2013		118,832	32,053	79,692	4,647	2,440
2014		123,149	37,611	78,227	4,916	2,395
2015		124,180	36,753	80,354	4,650	2,424
2016 ^p		118,041	33,460	77,691	4,591	2,299
2015	3	10,462	3,010	6,861	353	237
	4	9,869	3,045	6,250	382	193
	5	10,283	3,049	6,431	596	207
	6	9,989	3,003	6,392	410	184
	7	11,084	3,217	7,262	414	191
	8	10,973	3,131	7,316	357	169
	9	9,991	3,072	6,388	363	168
	10	9,690	3,139	5,946	418	187
	11	9,773	3,005	6,190	373	205
	12	10,980	3,142	7,200	407	232
2016 ^p	1	10,510	2,878	7,085	314	232
	2	9,477	2,637	6,316	323	202
	3	9,631	2,753	6,362	297	219
	4	8,774	2,594	5,588	403	188
	5	9,319	2,653	6,049	433	183
	6	9,470	2,688	6,237	361	183
	7	10,571	2,898	7,112	397	165
	8	10,472	2,913	7,017	378	163
	9	9,537	2,870	6,055	438	174
	10	9,324	2,919	5,834	417	154
	11	9,702	2,773	6,317	406	207
	12	11,252	2,884	7,718	424	226
2017 ^p	1	11,474	2,908	7,982	364	221
	2	10,065	2,604	6,979	273	209
	3	10,508	2,743	7,176	376	213
2016 ^p	1-3	29,619	8,268	19,763	933	654
2017 ^p	1-3	32,047	8,254	22,137	1,013	643

자료 : 대한석탄협회, 산업통상자원부

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

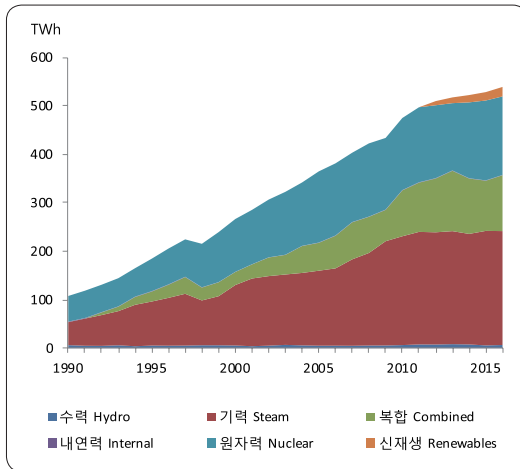
6. 전력 · 열

Electricity & Heat

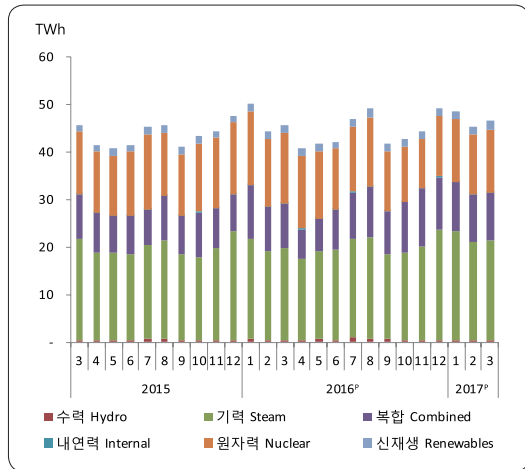


□ 발전 설비별 발전량 Power generation amount by Generating facilities

<1990~2016^P>

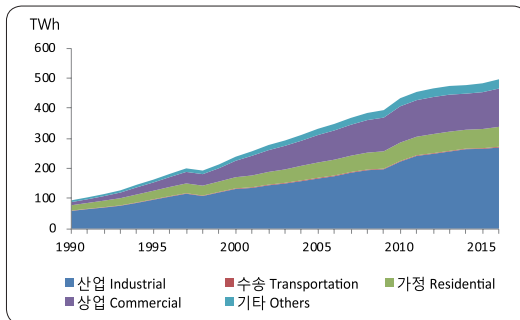


<월별 Monthly>

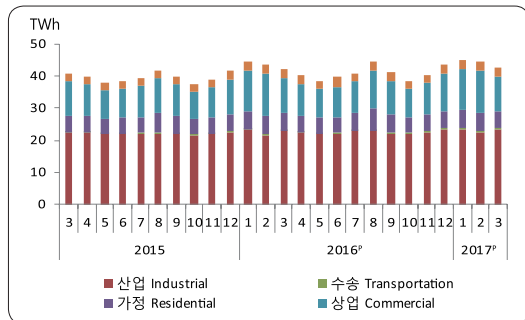


□ 부문별 전력 소비 Electricity consumption by sector

<1990~2016^P>

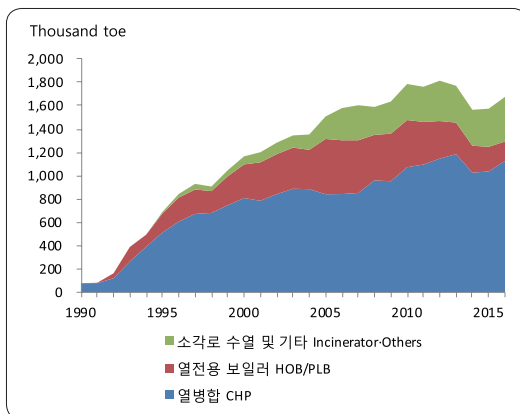


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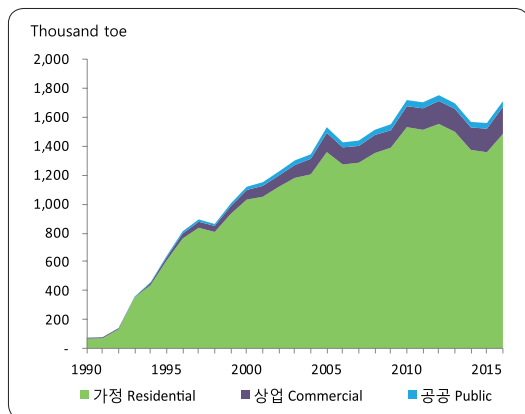


□ 지역난방 생산, 소비 District heating production, consumption

<1990~2016^P>



<1990~2016^P>



6.1 발전 현황

Power Generation

		총발전량 Total power generation amount	설비용량 ¹ Power plant capacity	공급능력 ¹ Supply capability	최대전력 Peak load	평균전력 Average load	공급예비율 ¹ Supplied reserve ratio	부하율 Load factor
		GWh	MW			%		
1990		107,670	21,021	18,680	17,252	12,291	8.3	71.2
1991		118,619	21,126	20,148	19,124	13,541	5.4	70.8
1992		130,963	23,430	21,737	20,438	14,909	6.4	72.9
1993		144,437	27,154	24,405	22,112	16,488	10.4	74.6
1994		164,993	28,772	27,431	26,696	18,835	2.8	70.6
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		403,124	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 ^p		540,441	100,180	92,400	85,180	61,526	8.5	72.2
2015	3	45,742	94,102	84,910	75,375	61,481	12.7	81.6
	4	41,517	95,365	79,635	66,582	57,663	19.6	86.6
	5	40,789	95,681	76,874	67,107	54,824	14.6	81.7
	6	41,583	95,681	84,047	69,882	57,754	20.3	82.6
	7	45,296	96,828	89,654	76,696	60,881	16.9	79.4
	8	45,707	96,828	89,595	76,916	61,435	16.5	79.9
	9	40,975	96,828	85,102	72,991	56,909	16.6	78.0
	10	43,366	96,828	80,604	65,322	58,287	23.4	89.2
	11	44,384	97,649	87,180	73,965	61,645	17.9	83.3
	12	47,727	97,649	89,191	77,282	64,149	15.4	83.0
2016 ^p	1	50,135	98,190	94,793	82,972	67,386	14.2	81.2
	2	44,383	98,190	93,809	80,020	63,769	17.2	79.7
	3	45,783	98,796	85,100	75,700	61,536	12.4	81.3
	4	41,157	98,796	86,050	65,770	57,163	30.8	86.9
	5	42,041	98,948	80,090	68,010	56,507	17.8	83.1
	6	42,551	98,948	80,960	72,820	59,099	11.2	81.2
	7	47,086	100,180	88,920	81,110	63,288	9.6	78.0
	8	49,118	100,180	92,400	85,180	66,019	8.5	77.5
	9	41,835	101,025	85,110	75,300	58,104	13.0	77.2
	10	42,659	103,068	78,560	68,280	57,337	15.1	84.0
	11	44,474	103,068	85,020	74,960	61,769	13.4	82.4
	12	49,219	104,466	93,030	79,970	66,155	16.3	82.7
2017 ^p	1	48,603	106,240	95,440	83,660	65,327	14.1	78.1
	2	45,458	107,098	95,916	81,268	67,646	18.0	83.2
	3	46,684	107,098	93,840	76,756	62,747	22.3	81.7
2016 ^p	1-3	140,301	98,190	94,793	82,972	64,241	14.2	77.4
2017 ^p	1-3	140,745	106,240	95,440	83,660	65,160	14.1	77.9

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

		합계 Total	수력 Hydro	기력 Steam	복합 ¹ Combined	내연력 Internal	원자력 Nuclear	신재생 Renewables
		MW						
1990		21,021	2,340	9,912	840	313	7,616	-
1991		21,111	2,445	9,912	760	378	7,616	-
1992		24,120	2,498	9,912	3,706	388	7,616	-
1993		27,654	2,504	11,972	5,173	389	7,616	-
1994		28,750	2,493	13,032	5,334	275	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	6,467	33,402	27,826	330	20,716	4,474
2015		97,649	6,471	34,441	29,043	330	21,716	5,649
2016 ^o		105,866	6,485	35,756	32,703	329	23,116	7,477
2015	3	95,365	6,468	33,774	29,043	330	20,716	5,036
	4	95,365	6,468	33,774	29,043	330	20,716	5,036
	5	95,681	6,468	33,774	29,043	330	20,716	5,351
	6	95,681	6,468	33,774	29,043	330	20,716	5,351
	7	96,828	6,469	33,774	29,043	330	21,716	5,498
	8	96,828	6,469	33,774	29,043	330	21,716	5,498
	9	96,828	6,469	33,774	29,043	330	21,716	5,498
	10	97,476	6,471	34,289	29,043	330	21,716	5,628
	11	97,649	6,471	34,441	29,043	330	21,716	5,649
	12	97,649	6,471	34,441	29,043	330	21,716	5,649
2016 ^o	1	98,190	6,472	31,094	32,267	330	21,716	6,312
	2	98,796	6,472	31,239	32,267	330	21,716	6,332
	3	98,796	6,477	31,239	32,267	330	21,716	6,332
	4	98,948	6,477	31,218	32,267	329	21,716	6,505
	5	98,948	6,477	31,218	32,267	329	21,716	6,505
	6	98,948	6,477	31,218	32,267	329	21,716	6,505
	7	100,180	6,478	32,165	32,267	329	21,716	6,789
	8	101,025	6,479	32,753	32,703	329	21,716	7,049
	9	102,018	6,480	33,684	32,703	329	21,716	7,107
	10	103,068	6,480	34,734	32,703	329	21,716	7,107
	11	103,299	6,486	34,734	32,703	329	21,716	7,333
	12	105,866	6,485	35,756	32,703	329	23,116	7,477
2017 ^o	1	106,238	6,485	35,845	32,703	339	23,116	7,750
	2	107,098	6,485	35,845	33,550	339	23,116	7,762
	3	109,493	6,485	36,419	35,272	339	23,116	7,862
2016 ^o	1-3	98,796	6,477	31,239	32,267	330	21,716	6,332
2017 ^o	1-3	109,493	6,485	36,419	35,272	339	23,116	7,862

1. 복합발전 : 1차 가스터빈, 2차 증기터빈(or 열공급) 발전형식

주: 집단에너지는 기력과 복합에 포함

자료: 전력통계속보, 한국전력공사

1. Combined cycle: The first is a gas turbine and the second is a steam turbine (or heat supply)

Note: Group energy is included in steam and combined cycle.

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

6.3 발전 설비별 발전량

Power generation amount by generating facilities

		합계 Total	수력 Hydro	기력 Steam	복합 Combined cycle	내연력 Internal	원자력 Nuclear	신재생 ¹ Renewables
		GWh						
1990		107,715	6,361	47,419	-	1,048	52,887	-
1991		118,619	5,051	56,000	-	1,257	56,311	-
1992		130,963	4,863	63,531	5,464	574	56,530	-
1993		144,437	6,006	70,464	9,188	640	58,138	-
1994		164,993	4,098	85,408	16,047	789	58,651	-
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		403,124	5,042	178,163	76,403	578	142,937	-
2008		422,355	5,563	190,812	74,519	503	150,958	-
2009		433,604	5,641	215,009	64,486	697	147,771	-
2010		474,660	6,472	224,356	94,506	731	148,596	-
2011		496,893	7,831	232,040	101,479	821	154,723	-
2012		509,574	7,652	231,343	110,882	752	150,327	8,618
2013		517,148	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		528,091	5,796	236,133	103,437	643	164,762	17,318
2016 ^p		540,441	6,635	234,851	115,172	571	161,994	19,512
2015	3	45,742	525	21,069	9,560	72	13,053	1,462
	4	41,517	430	18,457	8,175	57	13,016	1,384
	5	40,789	458	18,230	7,972	66	12,591	1,471
	6	41,583	360	18,155	8,081	45	13,516	1,425
	7	45,296	696	19,771	7,470	45	15,837	1,476
	8	45,707	665	20,801	9,381	52	13,282	1,527
	9	40,975	510	17,876	8,227	47	12,790	1,525
	10	43,366	410	17,519	9,413	41	14,365	1,617
	11	44,384	331	19,588	8,268	58	14,808	1,331
	12	47,727	372	22,848	7,758	61	15,200	1,487
2016 ^p	1	50,135	613	21,162	11,258	54	15,442	1,527
	2	44,383	393	18,702	9,335	50	14,165	1,553
	3	45,783	395	19,367	9,455	61	14,602	1,624
	4	41,157	466	16,926	6,426	39	15,332	1,662
	5	42,041	634	18,356	7,054	36	13,999	1,692
	6	42,551	517	18,964	8,319	43	12,972	1,432
	7	47,086	905	20,826	9,843	60	13,565	1,605
	8	49,118	694	21,271	10,618	53	14,651	1,830
	9	41,835	626	17,927	9,030	42	12,682	1,529
	10	42,659	472	18,337	10,515	47	11,657	1,629
	11	44,474	439	19,674	12,336	48	10,312	1,665
	12	49,219	481	23,339	10,983	38	12,615	1,763
2017 ^p	1	48,603	517	22,812	10,326	34	13,104	1,809
	2	45,458	509	20,610	10,035	29	12,373	1,903
	3	46,684	497	20,768	10,222	45	13,175	1,977
2016 ^p	1-3	140,301	1,401	59,231	30,048	165	44,209	4,705
2017 ^p	1-3	140,745	1,523	64,190	30,583	108	38,652	5,689

1. 신재생 (대체)에너지 발전량은 2012년 1월부터 기력에서 분리

주: 집단에너지는 기력과 복합에 포함

자료: 전력통계속보, 한국전력공사

1. Generation amount by the renewables(alternative energy)was separated from steam generation starting in January 2012.

Note: Group energy is included in steam and combined cycle.

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

6.4 종별 수용가수 및 판매량

No. of customers and sales volume by type

		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
1991		10,053	9,105	948	104,374	19,123	85,251
1992		10,748	9,584	1,164	115,244	21,221	94,023
1993		11,499	10,119	1,380	127,734	22,676	105,058
1994		12,161	12,093	68	146,541	29,702	116,839
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	474,848	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 ^p		22,553	22,097	456	497,039	112,114	384,925
2015	3	22,069	21,662	407	40,877	9,672	31,205
	4	21,664	21,253	411	40,078	9,232	30,846
	5	21,624	21,211	413	37,890	7,797	30,093
	6	21,675	21,260	415	38,345	7,678	30,667
	7	21,721	21,304	417	39,394	7,825	31,569
	8	21,770	21,351	419	41,945	9,407	32,538
	9	21,821	21,399	421	39,719	8,673	31,046
	10	21,856	21,433	424	37,465	7,519	29,946
	11	22,437	22,011	426	38,878	8,767	30,111
	12	22,030	21,602	428	41,795	9,753	32,042
2016 ^p	1	22,004	21,573	430	44,651	11,231	33,420
	2	22,040	21,608	432	43,570	11,903	31,667
	3	22,589	22,155	434	42,245	10,034	32,211
	4	22,198	21,761	437	40,123	9,033	31,091
	5	22,157	21,717	440	38,236	7,695	30,541
	6	22,207	21,765	442	39,668	7,802	31,866
	7	22,255	21,811	444	40,590	8,225	32,366
	8	22,298	21,852	446	44,412	10,196	34,215
	9	22,347	21,899	449	41,204	9,364	31,840
	10	22,376	21,924	451	38,549	7,667	30,882
	11	22,944	22,490	454	40,256	8,937	31,320
	12	22,553	22,097	456	43,534	10,027	33,507
2017 ^p	1	22,521	22,062	459	45,197	11,225	33,972
	2	22,554	22,093	461	44,422	11,729	32,694
	3	23,110	22,646	464	42,559	9,752	32,806
2016 ^p	1-3	22,589	22,155	434	130,466	33,169	97,298
2017 ^p	1-3	23,110	22,646	464	132,178	32,705	99,473

주: 1994년 1월 이후의 수용가수 및 판매량의 전등과
동력은 저압과 고압으로 변경

자료: 전력통계속보, 한국전력공사

Note: The lighting and power after January 1994 was changed to low and
high voltage.

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

6.5 부문별 전력 소비

Electricity consumption by sector

		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
1991		104,374	65,183	1,091	19,482	12,288	6,330
1992		115,244	70,505	1,175	21,796	15,114	6,654
1993		127,734	76,525	1,258	23,916	18,678	7,357
1994		146,541	86,019	1,446	26,554	23,695	8,827
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	2,003	62,675	119,949	28,347
2015		483,655	265,633	2,217	63,794	122,482	29,529
2016 ^a		497,039	269,975	2,689	66,173	127,435	30,767
2015	3	40,877	22,502	171	5,055	10,597	2,552
	4	40,078	22,319	166	5,260	9,917	2,416
	5	37,890	21,844	168	4,885	8,835	2,157
	6	38,345	21,923	184	4,965	8,980	2,294
	7	39,394	22,108	192	5,068	9,592	2,434
	8	41,945	22,124	255	6,204	10,845	2,517
	9	39,719	21,988	158	5,370	9,766	2,437
	10	37,465	21,625	176	4,834	8,662	2,167
	11	38,878	21,934	175	5,179	9,236	2,355
	12	41,795	22,600	200	5,408	10,880	2,707
2016 ^a	1	44,651	23,196	238	5,792	12,569	2,857
	2	43,570	21,681	229	5,912	12,890	2,859
	3	42,245	22,928	219	5,279	11,161	2,658
	4	40,123	22,358	203	5,273	9,875	2,415
	5	38,236	21,952	204	4,925	8,933	2,221
	6	39,668	22,015	215	5,028	9,394	3,016
	7	40,590	22,764	237	5,352	10,222	2,015
	8	44,412	22,697	266	6,972	11,766	2,711
	9	41,204	21,990	235	5,989	10,448	2,543
	10	38,549	22,155	210	4,951	8,995	2,237
	11	40,256	22,659	210	5,251	9,721	2,416
	12	43,534	23,580	223	5,448	11,461	2,820
2017 ^a	1	45,197	23,521	240	5,818	12,700	2,918
	2	44,422	22,442	235	5,909	12,999	2,837
	3	42,559	23,499	209	5,114	11,076	2,660
2016 ^a	1-3	130,466	67,804	685	16,983	36,620	8,374
2017 ^a	1-3	132,178	69,462	684	16,842	36,776	8,414

주: 2008년 5월부터 개성지구 판매량 포함.

Note: This includes the Kaesong Complex sales volume starting in May 2008.

자료: 전력통계속보, 한국전력공사

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

6.6 발전연료 소비

Fuel consumption of power generation

		석탄 Coal			석유 Petroleum			LNG ¹
		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
1991		8,540	1,978	6,562	6,387	6,111	276	1,781
1992		9,217	2,008	7,209	8,164	7,542	622	2,225
1993		12,549	2,284	10,265	7,984	7,670	314	2,518
1994		16,146	2,180	13,966	9,183	8,748	435	3,329
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	5,492	107	4,780
2002		43,088	2,751	40,336	4,753	4,528	226	5,969
2003		44,449	2,875	41,575	5,051	4,417	634	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	116	8,537
2006		52,605	2,346	50,259	3,790	3,633	156	9,466
2007		58,341	2,392	55,949	4,018	3,899	119	10,829
2008		65,781	2,543	63,238	2,141	2,034	107	10,515
2009		73,749	2,690	71,059	3,053	2,944	110	8,598
2010		78,805	2,404	76,401	2,825	2,711	114	13,408
2011		81,513	1,659	79,854	2,171	2,050	120	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 ^p		80,573	2,528	78,045	2,939	2,784	155	6,473
2015	3	6,998	207	6,791	332	322	10	813
	4	6,370	169	6,202	170	162	8	635
	5	6,564	195	6,369	92	84	8	670
	6	6,514	193	6,321	61	53	8	679
	7	7,298	149	7,149	38	29	10	613
	8	7,482	196	7,286	94	79	15	875
	9	6,396	154	6,242	82	74	8	768
	10	5,995	136	5,859	121	110	11	699
	11	6,251	162	6,089	362	350	12	514
	12	7,309	163	7,147	351	343	9	712
2016 ^p	1	7,256	217	7,038	353	343	10	636
	2	5,432	100	5,332	304	297	7	404
	3	6,943	243	6,700	388	376	12	537
	4	5,728	199	5,530	268	259	9	282
	5	6,350	242	6,108	200	190	10	389
	6	6,586	217	6,369	171	162	8	491
	7	7,238	254	6,984	267	251	16	669
	8	7,369	260	7,109	188	169	20	667
	9	6,265	192	6,072	114	99	15	546
	10	6,464	179	6,285	214	197	18	680
	11	6,874	217	6,658	182	163	19	606
	12	8,067	208	7,860	290	278	12	565
2017 ^p	1	8,224	174	8,050	205	196	9	543
	2	7,057	143	6,914	176	166	10	499
	3	6,976	125	6,851	47	32	15	383
2016 ^p	1-3	19,631	560	19,071	1,045	1,017	28	1,577
2017 ^p	1-3	22,257	442	21,816	428	394	34	1,425

1. LNG 자료는 분기별 조사

주: 중유에 정제유 포함, 경유에 등유 포함.

시운전 연료 사용량 포함.

자료: 전력통계속보, 한국전력공사

1. LNG data are gathered by quarter.

Note: Refined oil and kerosene are included in B-C oil and diesel respectively.

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

6.7 지역난방

District heating

		생산 Production				판매 Sales				
		합계	열병합 ¹	열전용 보일러 ²	소각로 수열 및 기타 ³	합계	가정	상업	공공	
		Total	CHP	HOB/PLB	Incinerator:Others	Total	Residential	Commercial	Public	
		1,000 toe								
1990		79	79	-	-	75	69	6	1	
1991		83	80	3	-	80	72	7	1	
1992		163	122	42	-	143	135	7	1	
1993		391	265	125	-	360	354	2	4	
1994		495	391	104	-	460	440	14	6	
1995		689	514	164	12	641	610	21	10	
1996		844	607	206	31	811	762	34	15	
1997		930	673	209	48	893	835	42	16	
1998		907	681	187	39	861	807	42	13	
1999		1,047	747	249	52	1,002	931	54	18	
2000		1,166	809	288	69	1,119	1,030	67	22	
2001		1,201	786	329	87	1,150	1,049	75	25	
2002		1,283	842	342	98	1,223	1,118	78	27	
2003		1,345	889	352	104	1,300	1,180	89	32	
2004		1,353	885	337	131	1,343	1,204	108	31	
2005		1,508	841	474	193	1,530	1,358	133	39	
2006		1,579	843	461	276	1,425	1,272	118	34	
2007		1,604	852	452	300	1,438	1,285	116	37	
2008		1,590	961	390	239	1,512	1,351	125	36	
2009		1,636	953	407	276	1,551	1,388	120	42	
2010		1,786	1,073	404	309	1,718	1,531	145	42	
2011		1,762	1,096	365	301	1,702	1,512	149	41	
2012		1,814	1,146	322	346	1,751	1,553	159	40	
2013		1,771	1,185	270	315	1,695	1,499	158	38	
2014		1,565	1,026	231	308	1,567	1,373	155	38	
2015		1,574	1,037	211	326	1,559	1,357	163	39	
2016 ^p		1,676	1,126	167	383	1,709	1,484	187	39	
2015	3	202	142	28	32	206	185	16	5	
	4	117	80	9	28	112	102	8	2	
	5	64	41	3	20	58	50	7	1	
	6	44	25	3	16	40	29	10	1	
	7	44	20	2	23	37	23	12	2	
	8	40	17	2	22	34	19	13	2	
	9	41	17	2	22	35	25	9	1	
	10	72	42	4	25	67	60	6	1	
	11	156	107	17	33	153	139	12	3	
	12	262	191	31	39	264	234	23	7	
	2016 ^p	1	326	231	51	43	350	312	31	7
		2	267	197	31	39	283	253	24	6
3		195	146	11	38	208	188	16	4	
4		101	61	6	34	101	92	8	2	
5		67	41	6	21	60	51	8	1	
6		51	28	3	21	43	30	11	2	
7		53	27	2	25	44	27	15	2	
8		46	19	1	26	38	18	17	3	
9		44	15	2	27	37	25	10	1	
10		78	40	6	31	72	64	7	1	
11		184	134	16	34	186	168	15	4	
12		265	189	32	44	286	255	24	6	
2017 ^p	1	311	218	47	46	333	297	29	7	
	2	270	199	33	38	287	256	25	6	
	3	203	150	12	41	217	196	17	5	
2016 ^p	1-3	788	574	92	121	842	753	71	17	
2017 ^p	1-3	783	567	92	125	837	749	71	18	

1. 한전 CHP 열 구매량 포함

2. 1992년~1994년 소각로 수열량을 열전용보일러 생산으로 포함

3. 기타 열생산원으로 CES, 태양열, 연료전지 포함

자료: 한국지역난방공사, GS Power(주), SH공사

1. This includes KEPCO's CHP heat purchase amount.

2. Heat amount by incineration from 1992 to 1994 is included in HOB production.

3. Other heat-producing sources include CES, solar heat, and fuel cells.

Source: Korea District Heating Corp., GS Power, SH Corporation.

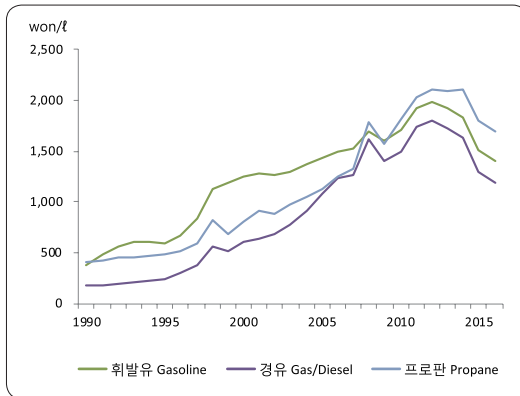
7. 에너지 가격

Energy prices

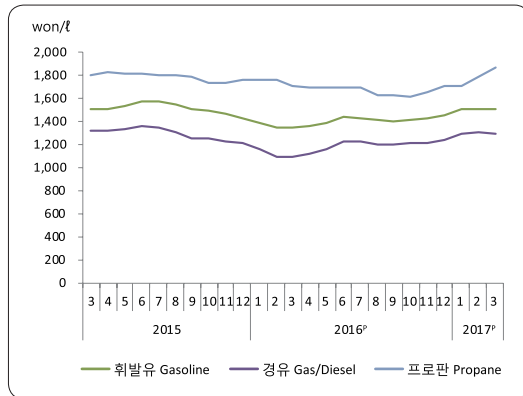


□ 석유 소비자 가격 Consumer prices by petroleum products

<1990~2016^P>

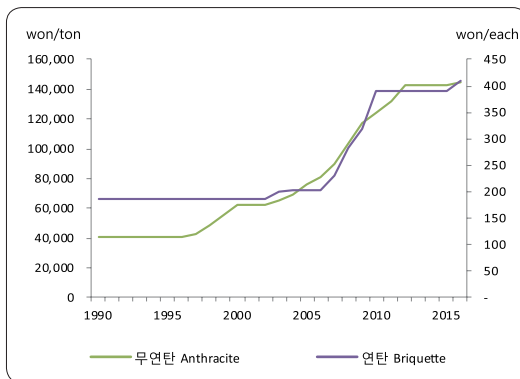


<월별 Monthly>



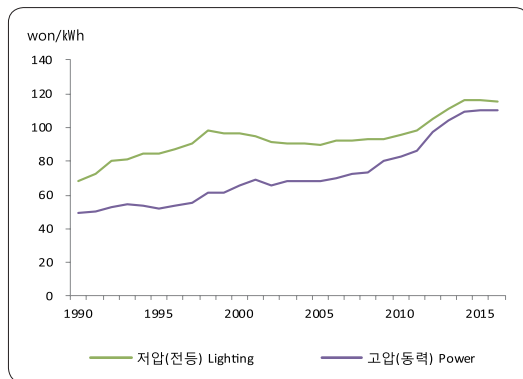
□ 석탄 가격 Coal prices

<1990~2016^P>



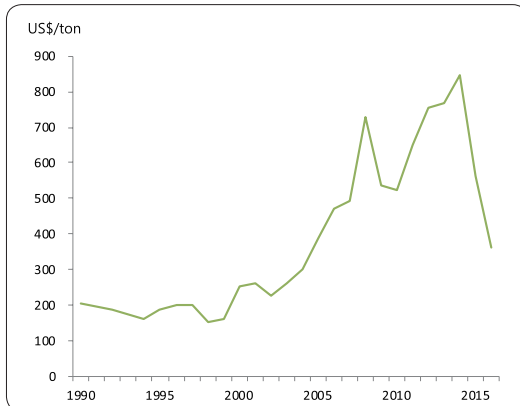
□ 전력 가격 Electricity prices

<1990~2016^P>



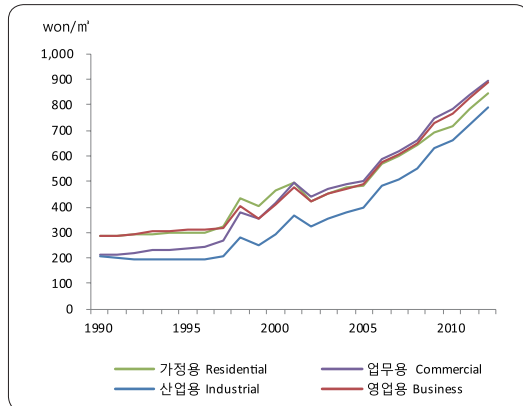
□ 천연가스 도입 단가 Natural gas import prices

<1990~2016^P>



□ 도시가스 가격 City gas prices

<1990~2012>



7.1.1 원유 수입 가격

Crude oil import prices

		평균 Average	중동 Middle East	아시아 Asia	아프리카 Africa	아메리카 America	유럽 Europe
		US\$/bbl					
1990		21.0	20.8	18.3	18.3	17.7	-
1991		19.6	19.3	18.2	18.2	18.1	-
1992		18.6	18.2	17.8	17.8	18.2	-
1993		16.6	16.1	16.5	16.5	16.7	-
1994		15.6	15.3	15.9	15.9	15.8	-
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	108.0	108.0	111.6	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 ^p		41.1	40.8	44.4	44.5	37.3	41.4
2015	3	55.9	55.8	57.9	57.7	52.4	57.5
	4	57.3	57.3	60.6	60.0	48.2	59.5
	5	61.9	61.5	66.0	64.6	60.3	63.8
	6	63.4	62.8	65.3	63.9	62.8	68.9
	7	60.9	60.9	62.3	61.3	57.4	-
	8	54.7	54.6	54.8	56.3	57.1	53.1
	9	49.0	49.1	47.9	49.2	47.9	51.8
	10	46.8	46.5	48.5	49.5	45.3	-
	11	45.4	45.1	45.6	46.7	42.8	49.2
	12	40.2	39.7	41.9	41.9	40.2	44.0
2016 ^p	1	33.5	33.0	34.0	36.1	38.7	40.2
	2	29.3	28.3	36.1	36.4	28.2	31.9
	3	32.1	31.5	39.0	37.6	30.7	33.9
	4	36.7	36.4	42.1	42.3	27.0	40.5
	5	41.1	40.8	47.6	46.6	26.2	-
	6	45.0	44.8	49.4	51.3	37.1	-
	7	46.0	45.9	48.1	50.8	37.9	-
	8	43.5	43.4	43.9	47.3	40.7	-
	9	43.8	43.5	46.7	46.4	41.4	-
	10	45.7	45.2	50.0	49.9	36.2	46.6
	11	47.5	47.7	48.5	49.9	42.3	50.0
	12	48.0	47.7	51.3	52.5	45.0	50.0
2017 ^p	1	52.5	52.5	54.5	55.6	39.0	56.5
	2	55.1	54.8	58.3	58.4	50.6	56.3
	3	54.2	54.4	54.3	58.2	45.5	60.0
2016 ^p	1-3	31.5	30.8	35.5	36.9	33.5	34.2
2017 ^p	1-3	53.9	53.9	55.9	56.9	43.7	56.8

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

		휘발유 Gasoline	경유 Gas/Diesel oil	등유 Kerosene	중질중유 Bunker-C	액화석유가스 LPG	납사 Naphtha
		US\$/bbl					
1990		-	-	-	-	-	-
1991		-	-	-	-	-	-
1992		-	25.5	27.1	15.5	15.0	22.0
1993		-	25.4	26.7	15.2	13.2	18.9
1994		-	22.1	24.4	14.8	12.3	17.0
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 ^p		64.2	55.4	47.7	45.0	148.4	38.0
2015	3	511.0	84.1	124.9	55.5	46.8	57.5
	4	-	88.5	-	56.7	46.1	59.2
	5	-	73.3	-	64.4	45.3	60.8
	6	94.3	63.7	-	60.5	44.6	64.4
	7	79.7	65.6	-	51.7	41.2	62.5
	8	89.1	71.1	-	47.0	40.2	56.4
	9	-	84.4	-	40.4	37.3	49.8
	10	-	66.5	-	41.5	35.5	48.9
	11	-	65.0	-	40.0	37.0	50.6
	12	-	73.4	124.9	35.4	39.7	49.9
2016 ^p	1	-	-	48.0	29.8	35.6	47.6
	2	-	-	47.2	28.2	31.1	40.5
	3	-	42.7	-	30.3	28.5	35.8
	4	-	49.7	-	34.0	29.5	40.8
	5	68.2	49.7	-	37.9	31.0	44.3
	6	60.6	59.9	-	40.2	31.3	45.7
	7	60.8	63.0	-	42.0	31.3	46.8
	8	65.7	58.6	-	40.7	27.8	43.5
	9	-	57.4	-	42.6	28.8	42.0
	10	64.7	59.8	-	45.3	29.3	44.2
	11	71.6	60.4	-	46.0	32.2	48.6
	12	64.6	61.0	-	51.7	34.6	48.4
2017 ^p	1	-	61.1	63.7	56.4	37.8	53.0
	2	70.4	70.4	-	55.9	44.6	56.4
	3	-	72.1	-	54.5	43.4	57.4
2016 ^p	1-3	-	-	47.7	29.0	33.4	44.5
2017 ^p	1-3	70.4	66.6	63.7	56.1	40.8	54.7

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

		휘발유 Gasoline	경유 Gas/Diesel oil	등유 Kerosene	중질중유 Bunker-C	액화석유가스 LPG	납사 Naphtha
		US\$/bbl					
1990		-	-	-	-	-	-
1991		-	-	-	-	-	-
1992		38.0	25.5	32.4	13.3	17.2	20.5
1993		27.7	24.0	33.5	11.4	15.1	17.2
1994		25.2	21.0	23.7	12.7	14.4	17.4
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 ^p		53.9	50.8	53.9	42.8	34.1	43.8
2015	3	71.8	69.3	70.4	52.5	49.1	57.0
	4	74.0	70.9	72.4	54.2	46.4	58.2
	5	82.2	75.3	75.6	65.9	49.1	61.5
	6	82.0	73.7	74.8	58.9	43.6	62.1
	7	74.5	64.7	67.9	50.7	44.4	58.6
	8	64.2	56.7	57.0	39.2	44.8	50.1
	9	63.7	58.2	58.4	44.9	38.1	48.9
	10	62.3	58.0	58.7	55.2	36.2	49.5
	11	58.4	56.9	58.4	43.6	40.9	49.6
	12	54.9	48.2	50.2	38.3	41.9	49.0
2016 ^p	1	48.8	36.8	38.8	31.7	36.4	44.3
	2	43.1	37.1	42.1	33.0	34.2	38.2
	3	49.1	42.5	47.7	34.7	34.0	38.3
	4	52.4	46.4	0.0	30.4	36.4	41.6
	5	57.5	52.1	55.1	44.4	40.0	44.4
	6	57.5	56.8	58.2	52.5	35.0	45.0
	7	52.3	54.6	0.0	51.4	30.4	44.5
	8	52.3	53.0	53.3	49.1	35.0	40.9
	9	55.9	53.5	54.9	45.5	31.7	41.4
	10	60.9	58.9	60.9	40.4	33.5	43.4
	11	59.0	56.6	59.6	47.0	34.0	48.1
	12	65.6	61.0	65.9	56.2	32.9	50.3
2017 ^p	1	67.8	64.9	67.0	68.7	38.6	54.6
	2	69.0	66.6	68.1	66.6	43.6	56.8
	3	63.9	63.4	63.9	54.5	40.0	51.5
2016 ^p	1-3	46.9	38.7	40.8	33.4	35.1	40.4
2017 ^p	1-3	66.8	64.8	66.9	61.0	41.1	54.4

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

		휘발유 Gasoline	경유 Gas/Diesel oil		등유 ¹ Kerosene	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	
1991		428.1	154.5	157.7	200.7	85.6	224.4	225.0	
1992		500.4	168.8	172.4	207.1	88.0	228.6	229.1	
1993		552.7	181.9	185.9	223.1	92.5	235.4	236.0	
1994		551.3	188.1	195.8	217.6	96.7	230.1	230.7	
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 ^p		1,296.2	1,027.8	1,068.7	542.4	442.8	1,030.6	584.4	
2015	3	1,407.7	1,139.2	1,205.5	678.2	590.6	1,176.5	731.7	
	4	1,412.8	1,179.4	1,203.3	669.9	592.5	1,214.3	769.2	
	5	1,483.4	1,171.2	1,251.2	709.5	602.2	1,191.7	746.0	
	6	1,500.4	1,203.5	1,241.7	698.3	605.4	1,187.9	747.6	
	7	1,458.0	1,206.0	1,186.9	646.0	595.2	1,169.2	719.1	
	8	1,412.3	1,141.1	1,132.8	594.8	555.7	1,170.3	716.4	
	9	1,386.6	1,089.3	1,144.7	611.6	515.4	1,151.8	695.8	
	10	1,366.4	1,101.6	1,131.1	611.5	495.2	1,099.6	644.7	
	11	1,319.7	1,096.2	1,115.4	596.3	449.1	1,082.4	654.5	
	12	1,281.4	1,072.8	1,045.0	529.8	436.3	1,123.2	688.7	
	2016 ^p	1	1,255.1	1,000.2	960.7	452.2	366.3	1,133.0	696.1
		2	1,236.3	926.4	991.8	469.8	371.2	1,104.5	655.2
3		1,277.3	943.0	1,039.1	512.6	408.8	1,034.9	599.5	
4		1,267.2	1,001.4	1,027.5	508.8	400.4	1,019.6	561.9	
5		1,314.7	1,003.0	1,089.3	562.7	433.6	1,022.5	569.7	
6		1,334.5	1,063.2	1,126.4	589.0	471.7	1,041.9	582.1	
7		1,278.4	1,097.2	1,087.9	548.6	472.1	1,036.1	577.4	
8		1,275.2	1,060.0	1,066.8	537.3	439.9	980.3	523.7	
9		1,302.3	1,031.9	1,073.2	547.2	436.4	961.7	507.3	
10		1,342.9	1,045.8	1,119.2	599.1	487.1	965.7	514.7	
11		1,321.1	1,096.1	1,106.5	589.6	500.3	1,010.6	574.9	
12		1,381.6	1,088.1	1,156.9	648.1	551.3	1,064.9	623.5	
2017 ^p	1	1,412.3	1,137.5	1,189.0	669.8	601.7	1,065.5	625.6	
	2	1,397.2	1,173.3	1,177.9	651.8	566.4	1,156.3	712.7	
	3	1,358.6	1,162.6	1,145.0	615.2	577.4	1,250.3	799.8	
2016 ^p	1-3	1,256.2	956.5	997.2	478.2	382.1	1,090.8	650.3	
2017 ^p	1-3	1,389.4	1,157.8	1,170.6	645.6	581.8	1,157.4	712.7	

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

		휘발유 ¹	경유 ¹	등유 Kerosene		중질중유 ²	프로판 ³	부탄 Butane		
				실내등유 ¹	보일러등유 ¹			일반용 ³	수송용 ¹	
		Gasoline	Gas/Diesel oil	Kerosen	Heating oil	Bunker-C	Propane	Residential and Commercial	Transport	
		won/ℓ				won/kg		won/ℓ		
1990		383.5	182.0	191.3	-	95.3	415.0	-	-	
1991		480.7	182.0	226.9	-	94.7	430.4	-	-	
1992		555.8	198.7	235.8	-	97.5	449.4	-	-	
1993		610.0	214.0	254.0	-	102.5	460.0	-	-	
1994		611.0	227.1	271.0	-	106.5	475.0	-	-	
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	-	-	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	334.4	887.3	1,108.1	457.7	
2003		1,294.8	772.0	638.8	640.0	349.6	980.0	1,193.3	567.4	
2004		1,365.3	907.9	752.2	757.5	377.5	1,050.2	1,234.5	673.9	
2005		1,432.3	1,079.7	871.0	873.7	432.5	1,131.5	1,305.1	723.4	
2006		1,492.4	1,228.2	931.9	936.2	475.9	1,242.7	1,392.3	747.9	
2007		1,525.9	1,272.7	932.2	936.5	526.6	1,330.6	1,453.7	773.8	
2008		1,692.1	1,614.4	1,238.7	1,238.6	757.1	1,789.9	1,898.2	1,009.0	
2009		1,600.7	1,397.5	976.2	974.8	718.7	1,577.2	1,885.0	828.7	
2010		1,710.4	1,502.8	1,076.0	1,075.2	772.3	1,812.7	2,072.0	952.2	
2011		1,929.3	1,745.7	1,321.2	-	987.2	2,034.0	2,277.3	1,076.1	
2012		1,985.8	1,806.3	1,394.1	-	1,088.7	2,105.9	2,352.0	1,101.9	
2013		1,924.5	1,729.6	1,366.7	-	935.4	2,085.3	2,337.6	1,070.8	
2014		1,827.3	1,636.7	1,296.7	-	885.5	2,112.9	2,369.3	1,051.2	
2015		1,510.4	1,299.6	947.4	-	604.2	1,801.3	2,033.9	806.4	
2016 ^p		1,402.6	1,182.5	784.5	-	523.8	1,689.1	1,913.5	734.0	
2015	3	1,507.7	1,326.8	983.2	-	627.9	1,800.4	2,040.1	806.4	
	4	1,507.4	1,320.2	970.7	-	634.2	1,831.8	2,064.5	827.0	
	5	1,542.2	1,343.5	967.7	-	647.0	1,819.2	2,047.4	818.2	
	6	1,580.0	1,368.8	971.3	-	699.7	1,820.9	2,050.0	817.2	
	7	1,576.0	1,354.7	967.9	-	684.1	1,811.5	2,039.3	804.6	
	8	1,544.5	1,307.8	946.5	-	624.2	1,801.3	2,026.6	804.0	
	9	1,511.5	1,263.8	915.5	-	576.6	1,790.6	2,017.4	794.5	
	10	1,498.7	1,251.9	902.7	-	551.1	1,743.5	1,966.0	764.1	
	11	1,473.6	1,235.0	890.9	-	547.4	1,743.3	1,967.6	762.0	
	12	1,432.9	1,211.0	859.6	-	531.3	1,770.3	2,005.8	782.1	
	2016 ^p	1	1,385.3	1,157.3	807.9	-	480.9	1,770.5	2,012.2	782.0
		2	1,351.7	1,101.1	764.2	-	439.3	1,759.5	1,997.2	772.0
3		1,350.1	1,103.2	755.9	-	455.4	1,711.1	1,939.9	742.1	
4		1,361.7	1,121.4	759.4	-	487.7	1,698.1	1,919.7	731.2	
5		1,388.7	1,157.9	764.3	-	489.1	1,693.2	1,909.8	731.1	
6		1,437.6	1,225.3	787.9	-	538.5	1,697.6	1,909.6	741.2	
7		1,437.2	1,228.4	792.5	-	547.4	1,693.4	1,911.4	736.0	
8		1,411.7	1,207.2	787.8	-	547.3	1,637.8	1,846.1	706.7	
9		1,408.2	1,203.0	784.3	-	541.3	1,625.4	1,837.0	696.6	
10		1,416.6	1,211.1	789.5	-	551.3	1,624.2	1,840.2	694.3	
11		1,427.0	1,222.7	800.2	-	589.2	1,664.4	1,900.5	724.9	
12		1,454.6	1,249.7	818.9	-	579.8	1,705.0	1,953.0	751.6	
2017 ^p	1	1,507.9	1,300.2	857.5	-	643.1	1,707.8	1,955.7	752.1	
	2	1,516.7	1,307.5	864.6	-	660.6	1,788.2	2,047.4	805.2	
	3	1,506.8	1,297.3	861.8	-	630.0	1,875.9	2,127.2	858.5	
2016 ^p	1-3	1,362.3	1,120.5	776.0	-	458.5	1,747.1	1,983.1	765.4	
2017 ^p	1-3	1,510.4	1,301.7	861.3	-	644.6	1,790.6	2,043.4	805.2	

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

		석탄 Coal		전력 ³ Electricity		
		무연탄 ¹ Anthracite	연탄 ² Briquette	저압(전등) Lighting	고압(동력) Power	평균 Average
		won/ton	won/each	won/kWh		
1990		40,740	185	68.1	49.5	52.9
1991		40,740	185	72.3	50.2	54.2
1992		40,740	185	80.4	53.1	58.1
1993		40,740	185	81.2	54.1	58.9
1994		40,740	185	84.8	54.0	60.2
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 ^p		145,106	410	115.7	109.9	111.2
2015	3	142,230	391	110	99	101
	4	142,230	391	105	98	99
	5	142,230	391	109	96	99
	6	142,230	391	118	118	118
	7	142,230	391	130	123	124
	8	142,230	391	133	121	123
	9	142,230	391	120	100	105
	10	142,230	391	109	97	100
	11	142,230	391	110	116	115
	12	142,230	391	118	118	118
2016 ^p	1	142,230	391	117	116	116
	2	142,230	391	116	117	117
	3	142,230	391	110	99	102
	4	142,230	391	105	96	98
	5	142,230	391	110	97	99
	6	142,230	391	118	114	115
	7	142,230	391	131	123	124
	8	142,230	391	139	125	128
	9	142,230	391	106	97	99
	10	153,670	465	107	97	99
	11	153,670	465	109	117	115
	12	153,670	465	116	118	117
2017 ^p	1	153,670	465	112	115	114
	2	153,670	465	111	117	116
	3	153,670	465	106	97	99

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: 전력통계속보 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: The monthly report on major electric power statistics KEPCO; Korea Coal Association, Ministry of Trade, Industry and Energy

7.3 LNG 수입가격 및 도시가스 가격

LNG import prices and city gas prices

		천연가스 ¹ LNG		도시가스 ² City Gas			
		도입금액 Import value	단가 Unit price	가정용 ³ Residential	업무용 ⁴ Commercial	산업용 Industrial	영업용 ⁵ Business
		million US\$	US\$/ton	won/m ³ , won/MJ			
1990		460	206	285	214	207	285
1991		485	194	285	211	199	285
1992		562	188	290	221	194	295
1993		781	175	295	230	194	305
1994		961	160	296	231	197	306
1995		1,275	189	301	237	197	309
1996		1,878	203	302	242	197	309
1997		2,296	200	326	266	207	319
1998		1,549	152	432	378	283	404
1999		1,973	161	404	357	248	353
2000		3,882	255	464	417	294	408
2001		3,990	260	498	496	369	479
2002		4,120	229	423	440	323	422
2003		5,082	263	452	469	357	450
2004		6,552	301	474	491	380	472
2005		8,646	387	486	503	396	489
2006		11,925	472	569	586	486	577
2007		12,653	495	599	616	509	608
2008		19,806	727	643	662	550	650
2009		13,875	537	690	744	629	731
2010		17,006	522	717	785	662	768
2011		23,859	650	784	838	724	828
2012		27,364	756	848	891	793	890
2013		30,645	769	20.8	21.7	19.5	21.7
2014		31,403	846	22.2	22.9	20.7	23.0
2015		18,779	563	18.6	19.0	16.4	18.6
2016 ^p		12,170	364	15.1	15.6	12.6	14.8
2015	3	2,066	680	19.10	19.28	17.51	19.46
	4	1,707	605	19.10	19.28	17.05	19.28
	5	1,163	494	17.49	18.00	14.91	17.24
	6	838	473	17.49	18.00	14.89	17.23
	7	1,042	461	17.49	18.00	14.89	17.23
	8	1,018	481	17.49	18.00	14.89	17.23
	9	1,295	499	18.21	18.71	15.60	17.95
	10	1,500	505	18.21	18.71	15.63	17.96
	11	1,335	495	18.21	18.71	15.63	17.96
	12	1,609	453	18.21	18.71	16.36	18.20
2016 ^p	1	1,402	417	16.69	17.19	14.84	16.68
	2	1,207	403	16.69	17.19	14.84	16.68
	3	1,288	377	15.20	15.71	13.35	15.19
	4	745	343	15.20	15.71	12.62	14.95
	5	688	311	14.55	15.05	11.58	14.02
	6	734	297	14.55	15.05	11.58	14.02
	7	585	306	14.55	15.05	11.58	14.02
	8	650	331	14.55	15.05	11.58	14.02
	9	785	353	14.55	15.05	11.58	14.02
	10	1,231	380	14.55	15.05	11.58	14.02
	11	1,326	388	15.36	15.87	12.39	14.83
	12	1,520	379	15.36	15.87	13.28	15.15
2017 ^p	1	1,769	412	15.36	15.87	13.28	15.15
	2	1,495	417	15.36	15.87	13.28	15.15
	3	1,428	406	15.80	16.31	13.72	15.59

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

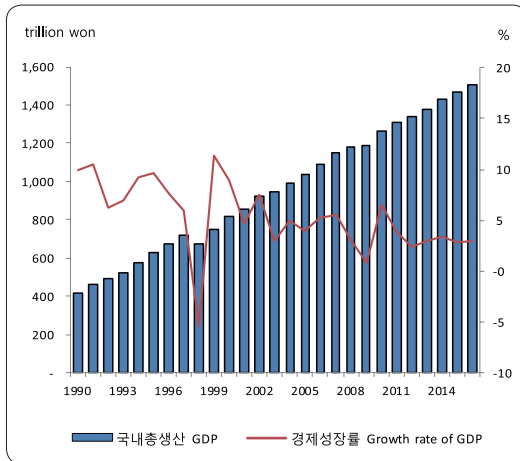
8. 주요 경제 · 사회 지표

Major economic and social indicators

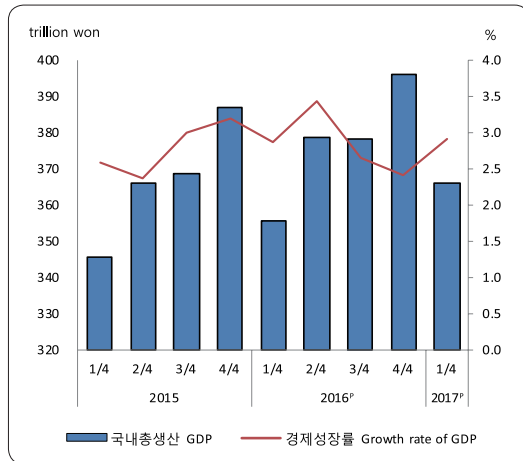


□ 국내총생산, 경제성장률 GDP and growth rate of GDP

<1990~2016^P>

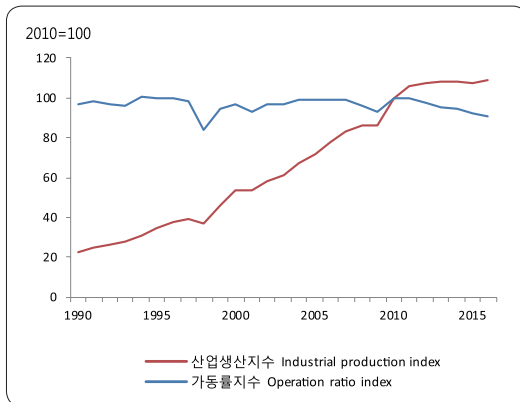


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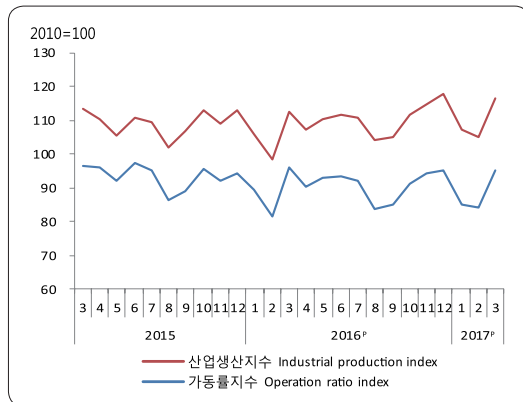


□ 산업생산지수, 가동률지수 Industrial production index

<1990~2016^P>

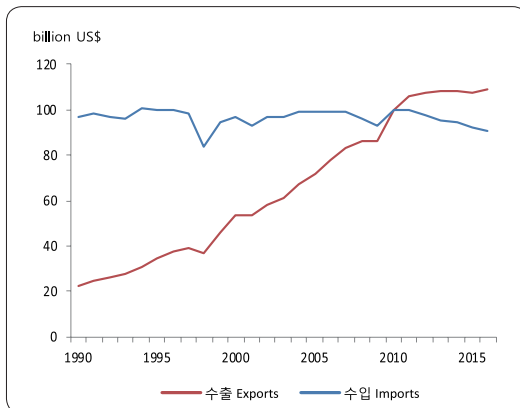


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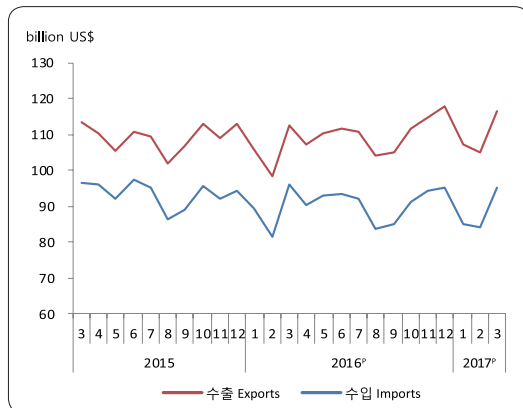


□ 수출입 Imports and export

<1990~2016^P>



<월별 Monthly>



8.1. 주요 경제지표

Major economic indicators

		국내총생산 ¹ (시장가격) GDP at market prices	경제성장률 Growth rate of GDP	민간소비 ¹ Private consumption	설비투자 ¹ Facilities investment	건설투자 ¹ Construction investment	물가지수 Prices	
							생산자 Producer	소비자 Consumer
		billion won	%	billion won			2010=100	2015=100
1990		419,518	9.8	253,472	43,880	118,588	56.4	40.6
1991		462,955	10.4	275,983	50,928	134,583	59.0	44.4
1992		491,545	6.2	294,896	52,926	135,000	60.3	47.1
1993		525,199	6.8	314,927	53,445	151,084	61.2	49.4
1994		573,550	9.2	343,187	68,154	160,086	62.9	52.5
1995		628,442	9.6	379,260	79,173	175,637	65.8	54.8
1996		676,169	7.6	408,082	86,787	188,448	67.9	57.5
1997		716,213	5.9	424,953	79,543	193,177	70.5	60.1
1998		677,028	-5.5	374,408	48,243	167,565	79.1	64.6
1999		753,590	11.3	418,258	65,275	162,016	77.5	65.1
2000		820,844	8.9	456,116	86,709	161,913	79.1	66.6
2001		857,990	4.5	482,023	79,039	172,378	78.7	69.3
2002		921,759	7.4	524,830	84,584	183,365	78.5	71.2
2003		948,796	2.9	522,093	83,853	199,416	80.2	73.7
2004		995,286	4.9	523,418	86,813	202,484	85.1	76.3
2005		1,034,338	3.9	546,548	91,015	202,289	86.9	78.4
2006		1,087,876	5.2	571,617	98,650	203,690	87.7	80.2
2007		1,147,311	5.5	600,758	108,196	206,813	88.9	82.2
2008		1,179,771	2.8	609,005	108,014	201,160	96.5	86.1
2009		1,188,118	0.7	609,997	99,712	208,241	96.3	88.5
2010		1,265,308	6.5	636,713	121,621	200,618	100.0	91.1
2011		1,311,893	3.7	655,181	127,285	193,752	106.7	94.7
2012		1,341,967	2.3	667,781	127,444	186,108	107.5	96.8
2013		1,380,833	2.9	680,350	126,441	196,330	105.7	98.0
2014		1,426,972	3.3	692,236	133,993	198,457	105.2	99.3
2015		1,466,788	2.8	707,493	140,262	211,536	101.0	100.0
2016 ^p		1,508,265	2.8	725,003	137,038	234,204	99.1	101.0
2015	3	345,617	2.6	177,880	33,429	41,001	101.8	99.7
	4	-	-	-	-	-	101.8	99.8
	5	-	-	-	-	-	101.8	100.0
	6	366,045	2.4	170,705	36,300	56,470	101.8	100.1
	7	-	-	-	-	-	101.4	100.2
	8	-	-	-	-	-	100.8	100.4
	9	368,514	3.0	177,058	34,504	55,880	100.3	100.1
	10	-	-	-	-	-	99.7	100.1
	11	-	-	-	-	-	99.3	99.9
	12	386,612	3.2	181,849	36,030	58,187	99.0	100.2
2016 ^p	1	-	-	-	-	-	98.5	100.4
	2	-	-	-	-	-	98.5	100.8
	3	355,508	2.9	181,947	31,892	44,700	98.4	100.6
	4	-	-	-	-	-	98.7	100.8
	5	-	-	-	-	-	98.8	100.8
	6	378,613	3.4	176,634	35,249	62,429	99.0	100.8
	7	-	-	-	-	-	98.9	100.6
	8	-	-	-	-	-	99.0	100.9
	9	378,225	2.6	181,867	33,143	62,152	99.2	101.5
	10	-	-	-	-	-	99.5	101.6
	11	-	-	-	-	-	100.0	101.5
	12	395,919	2.4	184,555	36,754	64,922	100.9	101.6
2017 ^p	1	-	-	-	-	-	102.3	102.4
	2	-	-	-	-	-	102.7	102.8
	3	365,753	2.9	185,588	36,482	49,739	102.7	102.8

1. 2010년 연쇄가격, 원계열
자료: 한국은행

1. At chained 2010 year prices, original series
Source: Bank of Korea.

8.2. 산업생산 지수

Industrial production index

		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
		2010=100							
1990		22.8	22.9	37.2	77.6	16.8	20.4	35.0	0.0
1991		25.0	25.1	41.8	93.4	21.4	23.6	38.7	0.0
1992		26.5	26.5	44.7	100.5	29.7	26.8	40.2	0.0
1993		27.7	27.6	50.4	102.9	33.1	31.3	42.5	0.0
1994		30.7	30.6	53.3	109.9	36.0	37.4	47.5	0.0
1995		34.4	34.2	57.7	117.9	37.9	43.8	54.7	0.0
1996		37.4	37.1	61.2	126.1	43.4	49.3	57.8	0.0
1997		39.2	38.8	64.8	128.4	53.9	49.0	57.6	0.0
1998		36.7	36.3	58.7	93.9	56.6	32.3	43.3	0.0
1999		45.7	45.4	65.3	95.9	61.3	49.6	54.7	0.0
2000		53.4	53.2	70.8	104.2	64.6	56.5	65.3	66.5
2001		53.7	53.3	72.0	108.6	64.1	55.9	65.0	70.5
2002		58.0	57.6	74.7	119.3	68.0	60.6	73.2	77.3
2003		61.2	60.8	79.5	127.3	70.4	64.5	73.3	78.0
2004		67.6	67.3	82.7	118.4	75.8	72.1	77.6	78.5
2005		71.9	71.5	81.8	107.0	78.8	78.1	80.4	81.4
2006		77.9	77.7	85.1	111.4	82.0	84.4	80.6	85.5
2007		83.3	83.2	89.4	119.0	87.3	89.7	84.2	91.3
2008		86.1	85.9	91.3	114.4	86.7	86.8	89.5	94.5
2009		86.0	85.7	81.8	106.4	92.1	81.2	90.9	96.3
2010		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2011		106.0	106.0	107.7	102.7	101.6	114.7	100.8	103.2
2012		107.4	107.5	108.8	101.6	105.8	114.5	98.8	104.8
2013		108.2	108.2	108.3	109.0	112.0	116.1	97.0	106.4
2014		108.4	108.4	113.2	105.3	113.0	119.3	98.8	108.9
2015		107.7	107.8	110.8	113.8	114.8	120.5	95.1	112.0
2016 ^p		109.2	109.3	112.7	134.3	120.5	117.4	96.6	115.4
2015	3	113.3	113.2	112.9	127.2	114.8	130.1	103.3	113.0
	4	110.2	110.5	111.2	134.5	108.7	131.6	99.8	111.6
	5	105.6	106.0	113.7	139.2	110.7	116.3	90.2	111.5
	6	110.8	111.4	113.6	140.6	114.4	131.8	101.2	111.8
	7	109.2	109.5	112.1	129.9	122.9	127.5	98.0	111.9
	8	101.8	101.8	109.7	124.0	119.5	95.8	85.5	110.9
	9	106.9	107.3	106.3	131.3	117.3	109.1	96.2	112.4
	10	112.9	113.6	114.7	144.7	114.5	126.9	99.6	114.0
	11	109.0	109.2	111.8	130.6	113.5	124.7	97.9	113.1
	12	113.1	112.7	112.3	134.3	121.9	130.9	100.3	123.2
2016 ^p	1	105.9	104.8	110.4	95.4	122.1	116.7	91.7	110.1
	2	98.3	97.4	98.4	83.1	114.8	103.8	86.0	108.0
	3	112.7	112.5	113.2	145.3	122.7	133.8	102.9	115.8
	4	107.2	107.5	112.8	145.7	113.0	120.3	94.1	113.8
	5	110.2	110.8	116.5	148.7	122.2	119.9	95.2	115.5
	6	111.8	112.5	110.7	152.2	119.4	126.5	96.9	117.3
	7	110.8	111.2	115.1	129.4	123.7	120.0	94.8	115.5
	8	104.0	104.0	114.2	135.6	126.3	84.0	89.4	115.8
	9	104.8	105.1	110.9	126.0	119.3	93.9	96.1	115.7
	10	111.5	112.2	117.3	146.1	117.1	116.8	102.4	116.3
	11	114.9	115.3	113.5	158.9	118.3	133.2	106.4	116.0
	12	118.0	117.7	119.3	144.9	127.4	139.5	103.8	125.6
2017 ^p	1	107.3	106.3	114.4	104.9	131.0	106.6	87.7	113.0
	2	104.9	104.1	109.2	114.9	118.2	116.4	91.0	110.7
	3	116.4	116.2	114.3	159.3	128.5	132.8	100.3	119.0

자료: 통계청

Source: Statistics Korea

8.3. 가동률 지수

Operation ratio index

		총지수 All items	1차 철강 Basic iron and steel	시멘트 Cement, lime and plaster and its products	기초화학물 Basic chemicals	수송장비 Motor vehicles, trailers and semitrailer	전기장비 Electrical equipment
		2010=100					
1990		96.8	120.0	166.9	84.3	87.1	85.0
1991		98.3	115.5	176.4	83.2	91.7	89.5
1992		96.8	110.7	167.5	87.1	96.2	90.0
1993		96.3	112.5	162.2	88.3	99.1	89.8
1994		100.6	112.8	165.7	94.2	102.1	99.1
1995		100.2	109.6	167.4	94.4	105.6	106.5
1996		99.9	113.3	155.9	96.5	108.7	104.4
1997		98.0	115.6	152.7	100.2	97.3	102.7
1998		84.1	92.8	108.9	94.0	64.9	82.2
1999		94.7	94.1	114.4	99.3	86.7	102.3
2000		97.0	99.6	126.2	100.4	83.7	94.5
2001		93.0	100.9	131.8	98.2	77.7	94.1
2002		96.7	101.3	144.8	101.0	81.9	99.3
2003		96.7	104.5	144.6	100.4	82.4	92.2
2004		99.4	106.2	128.6	100.2	86.2	93.0
2005		99.0	104.2	113.7	100.0	91.4	96.8
2006		99.3	103.8	115.8	100.7	95.0	97.3
2007		99.4	101.9	121.0	101.5	98.8	95.3
2008		96.3	102.5	114.2	93.8	92.2	93.3
2009		92.8	88.9	107.9	96.4	84.6	91.5
2010		100.0	100.0	100.0	100.0	100.0	100.0
2011		100.2	100.5	101.8	97.5	106.5	96.7
2012		97.5	100.3	101.8	96.6	102.9	94.1
2013		95.1	99.2	107.0	94.5	102.0	90.5
2014		94.3	102.6	100.5	92.8	103.4	90.5
2015		92.1	100.7	108.4	91.1	105.0	90.7
2016 ^p		90.4	101.3	129.8	94.1	97.2	92.2
2015	3	96.5	100.5	114.4	91.2	113.3	99.3
	4	96.1	97.9	111.2	85.3	117.5	97.4
	5	92.1	102.8	125.8	87.3	101.2	86.1
	6	97.4	102.3	122.5	91.0	117.8	95.0
	7	95.0	102.5	110.5	97.9	111.8	94.9
	8	86.3	102.2	102.9	93.8	81.2	84.5
	9	89.0	96.7	107.0	92.1	92.8	92.7
	10	95.5	104.5	122.1	88.4	112.6	97.9
	11	91.9	101.7	112.4	88.2	109.1	91.6
	12	94.3	102.2	118.4	95.7	113.9	94.4
2016 ^p	1	89.4	102.2	92.5	95.9	97.8	88.3
	2	81.6	91.6	79.6	89.5	85.1	82.6
	3	96.2	101.8	140.2	97.2	114.8	101.1
	4	90.4	101.4	142.5	89.4	101.3	86.3
	5	93.1	105.9	144.1	95.8	100.3	89.3
	6	93.4	99.9	147.6	93.3	108.3	90.2
	7	92.1	105.9	124.4	97.2	99.1	91.8
	8	83.7	107.1	130.4	98.3	58.2	83.7
	9	84.8	102.3	122.0	92.7	70.0	94.6
	10	91.1	108.9	140.6	90.4	95.9	98.6
	11	94.3	103.6	153.1	91.1	115.1	102.2
	12	95.0	109.7	140.9	98.0	120.8	97.5
2017 ^p	1	85.1	106.5	100.5	101.1	83.9	80.7
	2	84.1	101.2	109.0	91.4	94.2	87.1
	3	95.1	106.6	153.5	98.4	113.0	95.2

자료: 통계청

Source: Statistics Korea

8.4. 투자활동지표

Investment activity indexes

		설비부문 Facility			건설부문 Construction		
		설비투자 Facility investment	설비용기계 내수출하 ¹ Domestic shipment index of machinery and equipment	국내수요기계 수주액 ¹ Value of domestic machinery orders received	건설기성액 ² Value of construction completed	국내 건설수주액 ² Value of domestic construction order received	건축허가면적 Permitted floor area for building construction
		2010=100		billion won		1,000 m ²	
1990		-	34.7	-	-	20,964	-
1991		-	39.0	-	-	25,569	-
1992		-	38.2	-	-	27,861	-
1993		-	39.6	-	-	33,246	-
1994		-	48.4	-	-	39,394	-
1995		56.7	58.7	-	-	49,025	-
1996		64.2	65.9	-	-	59,535	-
1997		60.6	66.2	18,270	-	62,722	-
1998		37.9	41.5	11,508	46,887	36,027	-
1999		53.8	54.5	13,954	47,449	36,299	72,531
2000		69.9	74.9	16,583	45,990	41,778	81,055
2001		64.2	71.0	15,712	50,576	50,995	97,717
2002		69.7	78.4	18,909	56,216	67,834	138,734
2003		68.1	76.9	18,125	65,553	80,897	142,108
2004		70.6	75.2	19,430	72,838	77,774	117,461
2005		74.7	75.5	19,012	75,831	83,489	111,506
2006		84.2	83.7	22,042	77,839	91,001	133,270
2007		90.0	86.5	26,575	82,939	112,502	150,957
2008		87.9	87.9	23,679	87,032	113,581	120,658
2009		79.5	83.2	21,863	89,819	109,088	105,137
2010		100.0	100.0	23,369	92,276	89,814	125,447
2011		103.5	104.9	25,588	91,717	95,332	137,868
2012		100.6	100.0	22,593	88,713	89,395	137,142
2013		99.8	92.4	24,090	98,089	77,885	127,066
2014		105.0	92.1	27,960	98,491	90,606	141,347
2015		112.2	91.0	27,224	102,614	134,493	189,839
2016 ^P		110.7	90.5	27,891	119,977	145,802	178,955
2015							
	3	122.1	104.9	2,427	8,000	12,519	14,728
	4	113.9	95.2	2,978	7,915	9,100	15,816
	5	107.9	90.7	2,243	7,994	12,640	14,732
	6	118.6	103.5	2,307	9,826	13,641	16,027
	7	120.2	94.1	2,140	8,104	8,681	23,044
	8	106.3	87.7	1,730	8,123	8,767	16,651
	9	108.3	88.1	1,992	9,193	19,046	17,841
	10	113.0	89.3	2,142	8,714	10,387	17,159
	11	107.8	88.8	2,105	8,888	13,244	16,130
	12	124.9	98.6	2,684	11,932	13,517	18,501
2016 ^P							
	1	97.0	75.6	1,792	7,509	7,339	12,199
	2	90.7	71.1	2,418	7,424	10,002	12,259
	3	112.7	95.4	2,585	9,600	11,666	16,179
	4	111.0	88.9	2,115	9,027	10,850	15,583
	5	110.6	89.6	2,278	9,347	9,656	16,196
	6	121.1	98.8	2,816	11,603	12,507	17,251
	7	105.0	88.2	2,138	9,545	11,991	16,610
	8	109.8	85.6	1,751	9,832	13,372	15,074
	9	104.0	90.0	2,091	10,195	11,607	11,573
	10	109.3	94.7	1,913	10,474	14,819	14,637
	11	118.8	97.2	2,436	11,459	12,563	15,593
	12	138.0	118.1	3,557	13,962	19,428	15,801
2017 ^P							
	1	107.0	85.6	2,406	8,988	8,551	12,440
	2	108.4	91.6	2,804	9,658	12,437	12,593
	3	139.0	107.9	3,475	11,985	9,062	13,561

1. 선박 제외

2. 경상금액

자료: 통계청

1. Excluding vessels.

2. Current Account

Source: Statistics Korea

8.5. 국제수지

Balance of payments

		수출	수입	경상수지	상품수지	서비스수지	본원소득수지	이전소득수지	자본수지
		Exports	Imports	Current account	Goods	Services	Primary income	Secondary income	Capital account
million US\$									
1990		65,016	69,844	-2,404	-3,280	471	-527	932	-
1991		71,870	81,525	-7,605	-6,713	-1,050	-582	740	-
1992		76,632	81,775	-2,432	-959	-1,876	-501	905	-
1993		82,236	83,800	2,026	3,031	-1,071	-701	767	-
1994		96,013	102,348	-4,464	-3,531	-630	-1,117	814	-
1995		125,058	135,119	-9,752	-6,518	-1,484	-2,040	291	-
1996		129,715	150,339	-23,831	-16,699	-4,762	-2,102	-268	-
1997		136,164	144,616	-10,285	-6,217	-1,360	-3,053	345	-
1998		132,313	93,282	40,057	39,546	2,780	-5,087	2,819	442
1999		143,685	119,752	21,608	25,254	936	-5,415	833	56
2000		172,268	160,481	10,444	15,631	-973	-4,000	-214	38
2001		150,439	141,098	2,700	9,839	-2,369	-3,508	-1,261	-64
2002		162,471	152,126	4,693	14,905	-5,939	-2,159	-2,114	-9
2003		193,817	178,827	11,877	22,477	-4,961	-2,474	-3,165	-48
2004		253,845	224,463	29,743	39,278	-5,163	-1,333	-3,038	10
2005		284,419	261,238	12,655	32,313	-9,130	-7,269	-3,258	-1
2006		325,465	309,383	3,569	25,174	-13,214	-4,010	-4,382	-69
2007		371,489	356,846	11,795	32,838	-13,247	-3,409	-4,387	6
2008		422,007	435,275	3,190	12,198	-6,543	-1,198	-1,267	26
2009		363,534	323,085	33,593	47,814	-9,590	-2,436	-2,195	-70
2010		466,384	425,212	28,850	47,915	-14,238	490	-5,317	-63
2011		555,214	524,413	18,656	29,090	-12,279	6,561	-4,716	-112
2012		547,870	519,584	50,835	49,406	-5,214	12,117	-5,474	-42
2013		559,632	515,586	81,148	82,781	-6,499	9,056	-4,189	-27
2014		572,665	525,515	84,373	88,885	-3,679	4,151	-4,985	-9
2015		526,757	436,499	105,940	122,269	-14,917	3,572	-4,985	-60
2016 ^p		495,426	406,193	98,677	120,446	-17,608	1,459	-5,620	-37
2015	3	46,823	38,486	9,881	10,594	-539	225	-399	-7
	4	46,222	37,859	7,255	11,850	-862	-3,237	-497	-9
	5	42,327	36,040	8,136	8,868	-18	-270	-444	-2
	6	46,555	36,598	11,561	12,949	-2,158	1,028	-259	-15
	7	45,696	38,647	9,326	10,304	-1,503	713	-189	-30
	8	39,107	34,772	8,208	8,849	-982	461	-119	2
	9	43,432	34,541	10,713	12,166	-1,251	342	-544	2
	10	43,352	36,763	9,576	10,972	-1,491	533	-438	-5
	11	44,285	34,050	9,842	10,635	-1,219	612	-186	19
	12	42,380	35,462	8,102	11,160	-1,322	-676	-1,059	0
2016 ^p	1	36,260	31,322	7,183	8,186	-1,837	1,232	-398	-6
	2	35,925	29,163	7,620	7,926	-1,158	831	21	-2
	3	43,002	33,344	10,547	12,842	-922	-866	-508	-3
	4	41,082	32,389	3,756	9,848	-1,531	-4,057	-504	-5
	5	39,734	33,025	10,495	10,857	-1,072	859	-150	1
	6	45,209	33,890	12,086	12,829	-1,308	1,090	-524	-3
	7	40,882	33,372	8,413	10,666	-1,583	-47	-623	3
	8	40,125	35,104	5,030	6,940	-1,499	532	-943	17
	9	40,846	33,988	8,067	10,662	-2,578	777	-794	-9
	10	41,983	35,050	8,719	9,830	-1,595	861	-377	-10
	11	45,309	37,241	8,892	10,425	-1,737	435	-231	-35
	12	45,069	38,304	7,869	9,433	-788	-188	-588	16
2017 ^p	1	40,285	37,514	5,278	7,814	-3,359	1,090	-267	40
	2	43,179	36,135	8,400	10,545	-2,229	631	-547	-2
	3	48,659	42,575	5,753	9,622	-3,275	-593	-2	-2

자료: 한국은행

Source: Bank of Korea

8.6. 자동차 등록대수

Motor vehicle registration

		총대수	용도별 By use		유종별 By fuel type					
			영업용	비영업용	휘발유	경유	LPG	CNG	하이브리드	
		Total	Commercial	Non-Commercial	Gasoline	Diesel			Hybrid	
1,000 unit										
1990		3,395	322	3,073	-	-	-	-	-	
1991		4,248	-	4,248	-	-	-	-	-	
1992		5,231	-	5,231	-	-	-	-	-	
1993		6,274	-	6,274	-	-	-	-	-	
1994		7,404	417	6,987	-	-	-	-	-	
1995		8,469	449	8,020	-	-	-	-	-	
1996		9,553	480	9,073	-	-	-	-	-	
1997		10,413	503	9,910	-	-	-	-	-	
1998		10,470	511	9,959	-	-	-	-	-	
1999		11,164	564	10,600	-	-	-	-	-	
2000		12,059	620	11,439	7,214	3,594	1,214	-	-	
2001		12,914	669	12,246	7,417	4,030	1,428	-	-	
2002		13,949	723	13,226	7,673	4,607	1,625	-	-	
2003		14,587	751	13,836	7,761	5,055	1,723	1	-	
2004		14,934	767	14,167	7,761	5,385	1,794	5	-	
2005		15,397	784	14,613	7,800	5,650	1,890	9	-	
2006		15,895	817	15,078	7,916	5,869	2,047	12	-	
2007		16,428	871	15,557	8,085	6,087	2,187	15	-	
2008		16,794	911	15,883	8,257	6,137	2,321	20	4	
2009		17,325	930	16,395	8,556	6,285	2,391	25	5	
2010		17,941	974	16,967	8,907	6,483	2,444	29	7	
2011		18,437	1,011	17,426	9,170	6,705	2,429	32	23	
2012		18,871	1,052	17,818	9,276	7,002	2,415	37	57	
2013		19,401	1,126	18,275	9,400	7,396	2,392	40	85	
2014		20,118	1,213	18,905	9,587	7,939	2,337	40	119	
2015		20,990	1,290	19,700	9,809	8,622	2,257	40	156	
2016 ^p		21,803	1,378	20,426	10,092	9,170	2,167	39	215	
2015	3	20,339	1,233	19,106	9,650	8,103	2,320	40	129	
	4	20,412	1,239	19,173	9,670	8,156	2,314	40	132	
	5	20,474	1,245	19,230	9,864	8,208	2,308	40	135	
	6	20,549	1,251	19,298	9,699	8,270	2,301	40	139	
	7	20,625	1,260	19,365	9,715	8,333	2,293	40	142	
	8	20,678	1,265	19,413	9,727	8,378	2,286	40	144	
	9	20,763	1,272	19,491	9,752	8,442	2,280	40	146	
	10	20,834	1,277	19,558	9,769	8,500	2,272	40	149	
	11	20,922	1,283	19,640	9,792	8,567	2,266	40	152	
	12	20,990	1,290	19,700	9,809	8,622	2,257	40	156	
	2016 ^p	1	21,085	1,299	19,787	9,838	8,690	2,252	40	160
		2	21,137	1,304	19,834	9,854	8,730	2,244	40	163
3		21,218	1,311	19,907	9,880	8,787	2,237	40	167	
4		21,293	1,318	19,974	9,903	8,839	2,229	40	173	
5		21,368	1,326	20,043	9,928	8,890	2,222	39	179	
6		21,464	1,338	20,126	9,963	8,947	2,217	39	187	
7		21,531	1,348	20,183	9,990	8,987	2,210	39	192	
8		21,568	1,353	20,215	10,004	9,014	2,201	39	196	
9		21,619	1,358	20,261	10,022	9,049	2,193	39	200	
10		21,673	1,364	20,309	10,042	9,086	2,185	39	205	
11		21,744	1,371	20,373	10,069	9,134	2,176	39	209	
12		21,803	1,378	20,426	10,092	9,170	2,167	39	215	
2017 ^p	1	21,897	1,383	20,515	10,133	9,221	2,164	39	220	
	2	21,934	1,386	20,549	10,150	9,241	2,158	39	224	
	3	21,994	1,391	20,603	10,178	9,271	2,152	39	230	

자료: 국토교통부

Source: Ministry of Land, Infrastructure and Transport

8.7. 냉난방도일

Heating and cooling degree-days

		평균기온 Average temperature °C	난방도일 Heating degree day	냉방도일 Cooling degree day
1990		12.8	2,557.6	673.8
1991		12.3	2,748.9	704.0
1992		12.5	2,636.2	623.6
1993		12.0	2,723.7	564.6
1994		13.5	2,510.8	909.3
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 ^p		13.6	2,589.7	976.7
2015	3	6.3	363.0	0.0
	4	13.3	146.2	6.0
	5	18.9	22.0	49.4
	6	23.6	0.0	167.6
	7	25.8	0.0	242.9
	8	26.3	0.0	256.3
	9	22.4	0.0	131.7
	10	15.5	84.5	7.2
	11	8.9	273.0	0.0
	12	1.6	508.6	0.0
2016 ^p	1	-3.2	657.2	0.0
	2	0.2	516.4	0.0
	3	7.0	339.6	0.0
	4	14.1	121.1	3.1
	5	19.6	19.8	68.1
	6	23.6	0.0	167.9
	7	26.2	0.0	255.3
	8	28.0	0.3	310.2
	9	23.1	0.0	152.5
	10	16.1	79.1	19.6
	11	6.8	336.8	0.0
	12	1.2	519.4	0.0
2017 ^p	1	-1.8	614.7	0.0
	2	-0.2	510.9	0.0
	3	6.3	361.9	0.0

주: 서울시 기준
자료: 기상청

Note: Based on Seoul
Source: Korea Meteorological Administration

8.8. 도시가구 가계수지

Average income and expenditure per household in cities

		도시가구 Household in cities				도시근로자 가구 Household for urban salary and wage earner's households			
		소득 Income	소비지출 Consumption expenditure	교통 Transport	연료비 Fuel expenses	소득 Income	소비지출 Consumption expenditure	교통 Transport	연료비 Fuel expenses
1,000 won									
1990		938	603	48	22	945	579	47	21
1991		1,148	719	59	25	1,163	694	58	23
1992		1,338	826	70	29	1,359	804	72	27
1993		1,445	896	85	33	1,472	872	85	32
1994		1,658	1,009	106	35	1,686	991	113	33
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 ^p		4,427	2,573	304	108	4,884	2,740	331	115
2014	1/4	4,442	2,670	325	130	4,975	2,839	367	141
	2/4	4,187	2,503	329	131	4,550	2,676	355	142
	3/4	4,423	2,593	345	135	4,838	2,758	392	145
	4/4	4,287	2,512	327	126	4,698	2,665	361	136
2015	1/4	4,550	2,672	308	115	5,081	2,875	352	125
	2/4	4,304	2,510	308	117	4,666	2,641	325	123
	3/4	4,440	2,580	310	121	4,883	2,732	329	128
	4/4	4,335	2,553	343	113	4,717	2,676	349	120
2016 ^p	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

자료: 통계청

Source: Statistics Korea

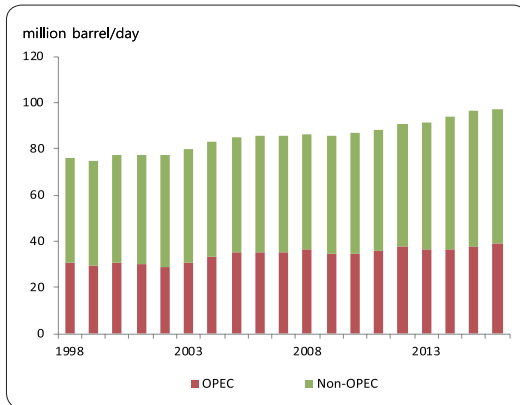
9. 해외 에너지

World energy

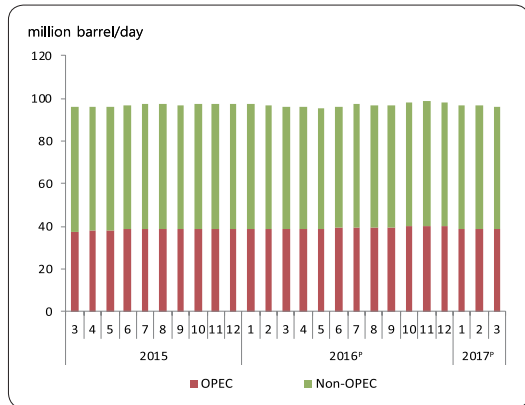


□ 세계 원유 생산 World crude oil production

<1998~2016^P>

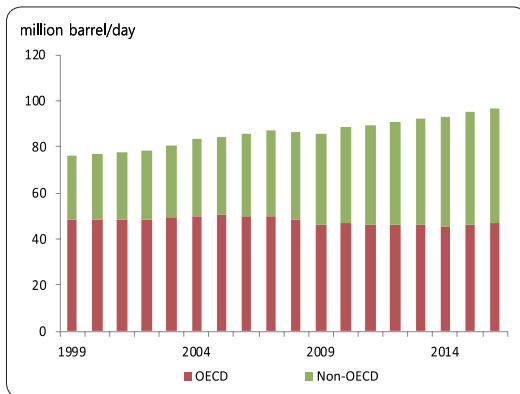


<월별 Monthly>

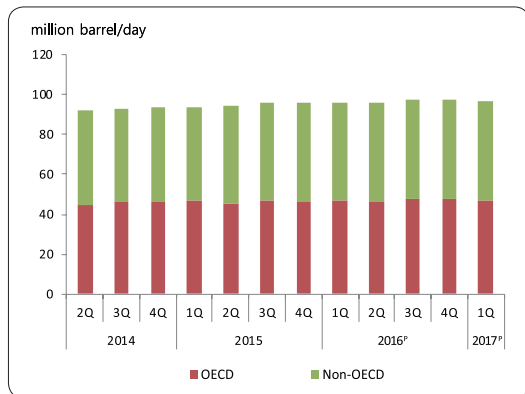


□ 세계 석유 수요 World oil demand

<1998~2016^P>

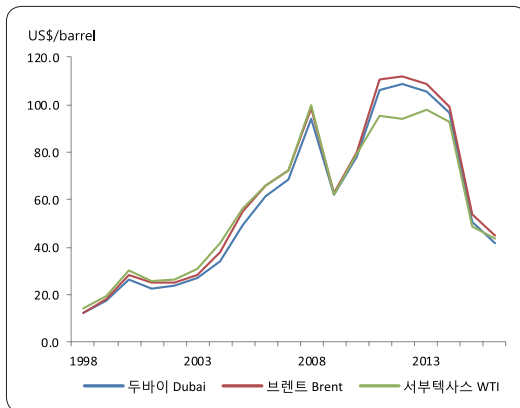


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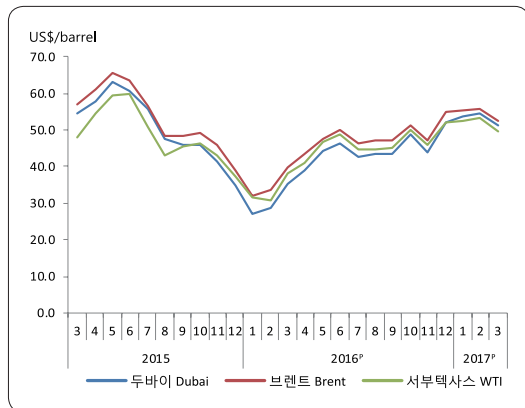


□ 국제 석유 가격 International oil price

<1998~2016^P>



<월별 Monthly>



9.1.1 세계 원유 생산: OPEC

World crude oil production: OPEC members

		OPEC ¹ Total	사우디아라비아 ² Saudi Arabia	이란 Iran	이라크 Iraq	쿠웨이트 ² Kuwait	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
2009		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		38.14	10.16	2.85	4.00	2.79	2.93	2.46	1.77
2016 ^p		39.32	10.42	3.55	4.41	2.88	3.03	2.24	1.47
2015	3	37.66	10.22	2.78	3.69	2.78	2.86	2.47	1.70
	4	38.01	10.25	2.87	3.75	2.81	2.88	2.48	1.72
	5	38.13	10.29	2.84	3.88	2.77	2.96	2.48	1.70
	6	38.54	10.51	2.81	4.25	2.75	2.92	2.46	1.65
	7	38.71	10.37	2.86	4.25	2.74	3.00	2.46	1.80
	8	38.47	10.26	2.86	4.20	2.81	2.96	2.45	1.76
	9	38.66	10.19	2.87	4.33	2.82	2.94	2.45	1.83
	10	38.47	10.20	2.87	4.16	2.72	2.92	2.46	1.86
	11	38.70	10.16	2.86	4.36	2.81	2.97	2.46	1.82
	12	38.56	10.11	2.90	4.37	2.84	2.95	2.44	1.74
2016 ^p	1	38.95	10.19	2.99	4.48	2.90	3.03	2.40	1.78
	2	38.63	10.19	3.18	4.21	2.88	2.76	2.40	1.78
	3	38.46	10.18	3.25	4.20	2.90	2.82	2.36	1.53
	4	38.97	10.22	3.54	4.37	2.82	2.82	2.33	1.59
	5	38.80	10.23	3.60	4.25	2.88	3.03	2.24	1.39
	6	39.30	10.51	3.62	4.29	2.88	3.10	2.21	1.43
	7	39.57	10.63	3.63	4.37	2.91	3.12	2.20	1.31
	8	39.39	10.59	3.67	4.39	2.94	3.11	2.19	1.15
	9	39.67	10.60	3.71	4.53	2.92	3.13	2.17	1.29
	10	39.96	10.56	3.85	4.59	2.93	3.12	2.15	1.45
	11	40.25	10.64	3.80	4.61	2.83	3.13	2.12	1.53
	12	39.85	10.45	3.77	4.66	2.81	3.14	2.10	1.39
2017 ^p	1	38.63	9.80	3.75	4.48	2.71	2.99	2.05	1.43
	2	38.80	9.98	3.81	4.45	2.71	2.93	2.05	1.45
	3	38.45	9.93	3.79	4.43	2.70	2.91	2.03	1.30

1. 기타석유, 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

		세계 ¹ World	비OPEC ¹ Non-OPEC	미국 USA	캐나다 Canada	러시아 Russia	중국 China	멕시코 Mexico	브라질 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		84.79	49.70	7.08	3.04	9.64	3.64	3.77	1.70
2006		85.47	50.10	6.99	3.21	9.85	3.71	3.69	1.81
2007		85.64	50.39	7.02	3.31	10.09	3.74	3.48	1.83
2008		86.58	50.24	6.92	3.24	10.00	3.81	3.17	1.90
2009		85.40	51.01	7.42	3.20	10.15	3.81	2.98	2.03
2010		87.11	52.27	7.75	3.33	10.39	4.08	2.96	2.14
2011		88.11	52.31	8.07	3.53	10.54	4.10	2.95	2.20
2012		90.53	52.90	9.11	3.74	10.62	4.18	2.92	2.16
2013		91.24	54.53	10.29	4.00	10.79	4.18	2.89	2.12
2014		93.72	56.96	12.00	4.28	10.90	4.25	2.81	2.35
2015		96.59	58.45	12.99	4.39	11.09	4.33	2.60	2.53
2016 ^o		96.98	57.66	12.52	4.47	11.34	4.03	2.46	2.61
2015	3	95.93	58.27	12.98	4.50	11.05	4.30	2.67	2.51
	4	96.19	58.19	13.20	4.18	11.02	4.29	2.53	2.49
	5	96.22	58.09	13.05	3.87	11.07	4.40	2.56	2.50
	6	96.92	58.39	12.89	4.08	11.09	4.44	2.58	2.49
	7	97.34	58.63	13.04	4.50	11.02	4.31	2.61	2.55
	8	97.30	58.84	13.06	4.63	11.06	4.33	2.59	2.65
	9	97.02	58.37	13.13	4.17	11.11	4.37	2.59	2.49
	10	97.09	58.62	13.09	4.30	11.16	4.31	2.60	2.50
	11	97.74	59.05	13.09	4.56	11.16	4.35	2.58	2.46
	12	97.42	58.86	12.87	4.66	11.19	4.32	2.58	2.63
2016 ^o	1	97.12	58.17	12.66	4.68	11.31	4.22	2.58	2.43
	2	96.69	58.07	12.74	4.61	11.29	4.20	2.52	2.42
	3	96.17	57.71	12.80	4.54	11.29	4.14	2.51	2.35
	4	96.26	57.29	12.67	4.18	11.20	4.09	2.48	2.38
	5	95.48	56.68	12.67	3.56	11.21	4.02	2.48	2.59
	6	96.24	56.95	12.48	3.85	11.23	4.08	2.50	2.67
	7	97.64	58.07	12.42	4.48	11.25	3.99	2.48	2.68
	8	96.48	57.09	12.31	4.62	11.07	3.92	2.47	2.72
	9	96.87	57.20	12.16	4.61	11.49	3.94	2.42	2.79
	10	97.98	58.02	12.43	4.68	11.60	3.83	2.40	2.73
	11	99.02	58.77	12.56	5.01	11.58	3.97	2.37	2.73
	12	97.84	57.97	12.36	4.79	11.58	4.00	2.33	2.85
2017 ^o	1	96.45	57.80	12.30	5.00	11.48	3.95	2.32	2.81
	2	97.05	58.25	12.80	4.89	11.48	3.95	2.33	2.79
	3	96.30	57.85	12.91	4.62	11.42	3.97	2.32	2.65

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

	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 ^p	96.6	46.8	24.7	14.1	8.1	49.8	4.8	0.7	11.9	13.1	6.6	8.5	4.2
2014 2Q	91.7	44.7	23.6	13.4	7.7	47.0	4.8	0.7	10.3	12.2	6.8	8.2	4.0
3Q	93.0	45.8	24.2	13.9	7.7	47.2	5.0	0.7	10.4	11.8	6.9	8.6	3.8
4Q	93.9	46.4	24.5	13.6	8.3	47.5	5.0	0.7	10.8	12.3	6.9	7.9	3.9
2015 1Q	93.8	46.6	24.5	13.5	8.7	47.2	4.4	0.7	11.3	12.3	6.6	7.9	4.1
2Q	94.4	45.6	24.4	13.6	7.6	48.8	4.6	0.7	11.6	12.6	6.8	8.6	4.1
3Q	95.9	46.9	25.0	14.2	7.7	49.0	4.8	0.7	11.6	12.3	6.9	8.9	4.0
4Q	95.6	46.4	24.5	13.8	8.2	49.2	4.7	0.7	11.7	12.8	6.8	8.4	4.1
2016 ^p 1Q	95.5	46.7	24.5	13.7	8.6	48.8	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	24.8	14.5	7.8	49.9	5.0	0.7	11.8	12.7	6.8	8.8	4.1
4Q	97.7	47.4	24.7	14.1	8.3	50.3	5.0	0.7	12.0	13.5	6.7	8.3	4.2
2017 ^p 1Q	96.5	46.7	24.4	13.8	8.5	49.8	4.7	0.7	12.2	13.4	6.5	8.2	4.2

자료: 한국석유공사

Source: Korea National Oil Corporation

9.3. 국제 석유 가격

International oil price

		OPEC 바스켓 OPEC Basket	아랍라이트 Arab Light	두바이 ¹ Dubai	브렌트 ¹ Brent	서부텍사스 ¹ WTI	오만 ¹ Oman
		US\$/barrel					
1990		21.3	20.7	20.5	-	-	20.8
1991		17.7	17.4	16.6	-	-	17.1
1992		17.8	17.9	17.2	-	-	17.7
1993		15.6	15.7	14.9	-	-	15.8
1994		15.5	15.4	14.8	-	-	15.3
1995		16.9	16.8	16.1	-	-	16.4
1996		20.3	19.8	18.6	-	-	19.3
1997		18.8	18.8	18.2	-	-	18.6
1998		12.3	12.3	12.2	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		61.0	61.0	61.6	66.1	66.3	62.7
2007		69.5	69.1	68.3	72.7	72.4	68.8
2008		94.1	94.8	94.3	98.5	99.8	95.0
2009		60.9	61.2	61.9	62.7	62.1	62.2
2010		77.4	77.8	78.1	80.3	79.6	78.4
2011		107.4	107.9	106.0	110.9	95.1	106.7
2012		109.5	110.3	109.0	111.7	94.2	109.3
2013		105.9	106.6	105.3	108.7	98.1	105.5
2014		96.2	97.1	96.6	99.5	92.9	96.8
2015		52.0	52.4	50.7	53.6	48.8	51.1
2016 ^p		40.7	40.9	41.4	45.1	43.5	42.1
2015	3	52.5	52.2	54.7	56.9	47.9	55.6
	4	57.3	57.7	57.7	61.1	54.6	58.3
	5	62.2	62.6	63.0	65.6	59.4	63.2
	6	60.2	60.9	60.8	63.8	59.8	61.1
	7	54.2	55.0	55.6	56.8	50.9	55.8
	8	45.5	46.5	47.8	48.2	42.9	47.8
	9	44.8	45.6	45.8	48.5	45.5	46.1
	10	45.0	45.4	45.8	49.3	46.3	46.1
	11	40.5	40.6	41.6	45.9	42.9	41.8
	12	33.6	33.7	34.9	38.9	37.3	35.0
2016 ^p	1	26.5	26.4	26.9	31.9	31.8	27.1
	2	28.7	28.8	28.9	33.5	30.6	29.6
	3	34.7	34.7	35.2	39.8	38.0	36.4
	4	37.9	38.2	39.0	43.3	41.1	39.9
	5	43.2	43.5	44.3	47.7	46.8	45.0
	6	45.8	46.3	46.3	49.9	48.9	46.7
	7	42.7	43.1	42.5	46.5	44.8	43.2
	8	43.1	43.5	43.6	47.2	44.8	44.5
	9	42.9	42.7	43.3	47.2	45.2	44.1
	10	47.9	48.3	49.0	51.4	49.9	49.7
	11	43.2	43.3	43.9	47.1	45.8	44.6
	12	51.7	51.9	52.1	54.9	52.2	52.9
2017 ^p	1	52.4	52.3	53.7	55.5	52.6	54.3
	2	53.4	53.6	54.4	56.0	53.5	55.0
	3	50.3	50.7	51.2	52.5	49.7	51.8

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

구분	연회비	제 공 자 료 (발행주기)	특 기 사 항
일반 회원	50만원	- 에너지통계월보 (월간) - 에너지통계연보(연간) - 에너지포커스(계간) - 지역에너지통계연보(연간) - Korea Energy Review Monthly(월간) - Energy Info. Korea(연간)	- 본 연구원 주최 주요 학술세미나 및 정책토론회 초청 - 에너지 및 자원분야 의문사항에 대한 해당분야 전문가 소개
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on-line 자료		세계에너지시장 인사이트(주간)	

▪ 가입 문의 : 대외협력홍보팀 (052-714-2243)

1. 연회비 (발송비 포함)

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

2. 회원 가입 신청서

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

3. 연회비 납입방법

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

4. 문의

- 에너지경제연구원 대외협력홍보팀 김 세 화
- 전화 : (052)714-2243 - 팩스 : (052)714-2027



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