



# 2024 자주 찾는 에너지통계





01

## 에너지밸런스 개정에 따른 자주찾는 에너지통계 통계량의 변화

- 에너지경제연구원은 에너지수급통계 생산을 위한 작성 틀인 에너지밸런스를 전면 개정하였으며, 개정된 에너지밸런스는 새로운 에너지수급통계 작성 방법으로 통계변경 승인을 완료함(2022.10.17.).
  - 기존의 에너지밸런스(이하 구에너지밸런스)는 1980년대 구축된 이후 부분적인 수정만을 거쳐 왔기 때문에 최근의 복잡하고 다양화된 에너지수급 현황을 정확히 반영하는데 한계가 존재했음.
  - 이에 따라 에너지경제연구원은 국제기준(IEA)을 준용하면서 우리나라 에너지수급 현황을 가장 현실화할 수 있는 구조 설계와 작성 방법으로 개정된 에너지밸런스를 구축함.
  - 개정된 에너지밸런스는 에너지상품과 에너지흐름을 현실에 맞게 추가 및 세분화하여 구에너지밸런스가 갖고 있던 문제점들을 해소하고, 통계의 정확성을 제고함.
  - 개정된 에너지밸런스는 일 년의 기간에 대한 국가 에너지상품의 수급 흐름을 상세하게 표현하는 확장밸런스(Extended balances)와 에너지상품의 수급 흐름을 신속히 파악하는 것을 목적으로 한 달을 집계 기간으로 작성되는 간이밸런스(Simple balances)로 구성됨.
    - 구에너지밸런스: 에너지상품 29개, 에너지흐름 41개
    - 개정에너지밸런스(확장): 에너지상품 58개, 에너지흐름 88개
    - 개정에너지밸런스(간이): 에너지상품 41개, 에너지흐름 48개
- 에너지밸런스 변경 승인이 완료됨에 따라 에너지경제연구원은 에너지통계월보 2022년 12월호, 에너지통계연보 2022년호부터 개정된 에너지밸런스를 기준으로 작성된 통계량을 반영하여 발표함.
  - 에너지통계월보 및 연보는 자료의 시의성 확보 및 독자의 에너지통계 이해도 제고를 위하여 간이에너지밸런스를 기준으로 작성됨.
  - 이에 따라 자주 찾는 에너지통계 또한 간이에너지밸런스 기준으로 개편되었음

## 01

## Changes in statistics of this book according to the revision of the energy balance

- The Korea Energy Economics Institute (KEEI) has completely revised Energy balance, which serves as a framework for producing energy statistics on energy supply and demand. The revised energy balance has been approved as the new method for compiling energy statistics (Oct.17, 2022).
  - Due to its partial modifications since its establishment in the 1980s, the existing energy balances (hereinafter referred to as the previous energy balance) had limitations in accurately reflecting the complex and diversified energy supply and demand situation in recent years.
  - Accordingly, the KEEI has established revised energy balances that incorporate international standards (IEA standards) while adopting a structure and compiling methodologies that can most realistically reflect the energy supply and demand of the country.
  - The revised energy balances address the issues of the previous energy balances by adding and disaggregating energy commodities and energy flows in a manner that adequately reflects the reality, thereby enhancing the accuracy of the statistics.
  - The revised energy balances comprise two types of balances: extended balances, which offer a detailed information of the supply and demand flows of energy commodities over a one-year period, and simple balances, which are aggregated monthly to provide a rapid assessment of the supply and demand flow of energy commodities.
    - Previous energy balances: 29 energy commodities, 41 energy flows
    - Previous energy balances: 29 energy commodities, 41 energy flows
    - Revised energy balances (extended): 58 energy commodities, 88 energy flows
    - Revised energy balances (simple): 41 energy commodities, 48 energy flows
- With the approval of the revised energy balances, KEEI has incorporated the statistics compiled using the revised energy balances in the Monthly Energy Statistics Report for Dec. 2022 and the Yearbook of Energy Statistics for 2022.
  - The Monthly Energy Statistics Report and the Yearbook of Energy Statistics are compiled in the form of simple energy balances to ensure timeliness and enhance users' comprehension of the energy statistics.
  - Also this book is compiled in the form of simple energy balances.



02

「자주찾는 에너지통계」는 정부 및 주요 공공기관에서 작성한 통계를 종합 편집한 것으로 각 통계표마다 출처와 주석을 표기하였습니다.

03

통계표의 수치는 해당기관의 사정에 의해 갱신될 수 있습니다.

04

2007년 이후 5년마다 개정된 열량을 적용하였습니다.

05

통계표에 사용된 약어는 다음과 같습니다.

|       |                                      |
|-------|--------------------------------------|
| TPES  | Total Primary Energy Supply(일차에너지공급) |
| TFC   | Total Final Consumption(최종소비)        |
| Pop.  | Population(인구)                       |
| Mil.  | Million(백만)                          |
| Thou. | Thousand(천)                          |
| Intl. | International(국제)                    |

06

통계표에 사용된 부호는 다음과 같습니다.

|   |          |
|---|----------|
| - | 해당 숫자 없음 |
| p | 잠정치      |
| e | 추정치      |



02

This book is compiled by comprehensive compilation of statistics from governments and related organizations. For more information, please see the source of each statistical table.

03

The figures in the tables can be revised by the governments and related organizations that collected the data.

04

From 2007, figures are based on revised calorific values every 5 years.

05

Abbreviations used in tables are as follows:

|       |                             |
|-------|-----------------------------|
| TPES  | Total Primary Energy Supply |
| TFC   | Total Final Consumption     |
| Pop.  | Population                  |
| Mil.  | Million                     |
| Thou. | Thousand                    |
| Intl. | International               |

06

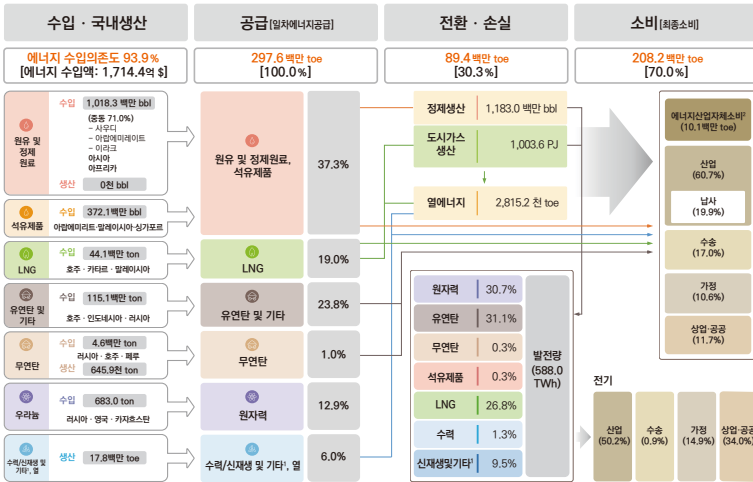
Symbols used in tables are as follows:

|   |             |
|---|-------------|
| – | Nil         |
| p | Preliminary |
| e | Estimate    |

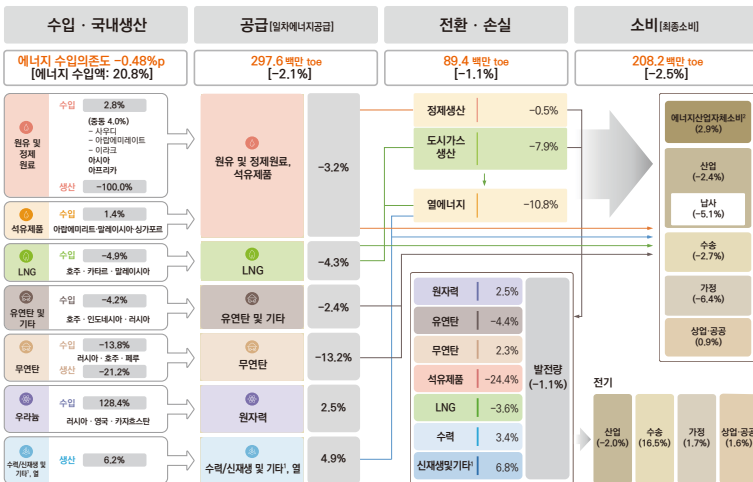
# 2023년(잠정) 에너지 플로우



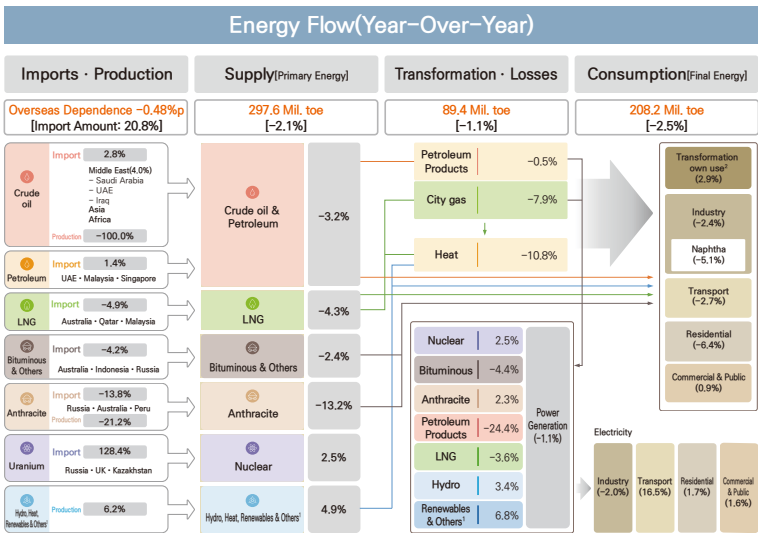
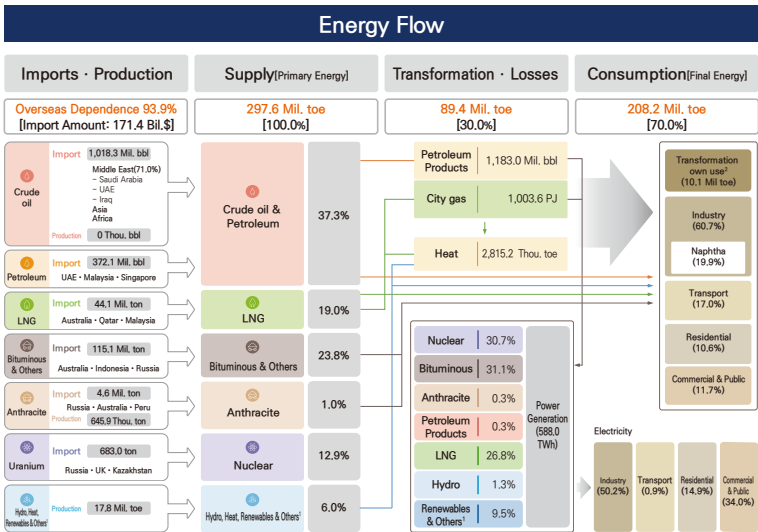
## 에너지 플로우



## 에너지 플로우(전년대비)



1. 신재생 및 기타: 바이오 및 폐기물, 지열, 태양 및 기타, 기타에너지원
2. 에너지산업자재소비는 에너지생산 플랜트의 활동을 유지하는데 사용되는 에너지 상품을 의미. 다른 에너지 상품으로 전환되지 않기 때문에 전환공정과 구별되며, 산업활동을 위한 에너지소비인 최종소비 산업부문에도 포함되지 않음.



1. Renewables & Others: Biofuels and waste, Geothermal, solar, etc. Other sources
2. Transformation own use (energy industry own use) is distinct from the transformation process because it is not converted into other energy commodities and is not included in the final consumption, which is energy consumption for industrial activities.

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# 01

## 우리나라 에너지 Energy in Korea



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# 01 Energy in Korea



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## 1-1. 주요 에너지 지표

|      | GDP단위당<br>일차에너지공급 <sup>1</sup><br>(toe/백만원) | 1인당<br>일차에너지공급<br>(toe/인)       | 1인당<br>전력소비<br>(kWh/인)                          | 1인당<br>가정용 전력소비<br>(kWh/인)                                     | 수입 의존도 <sup>2</sup><br>(%)                 |
|------|---------------------------------------------|---------------------------------|-------------------------------------------------|----------------------------------------------------------------|--------------------------------------------|
| 1990 | 0.181                                       | 2.09                            | 2,169                                           | 414                                                            | 88.7 (73.9)                                |
| 1991 | 0.176                                       | 2.24                            | 2,373                                           | 450                                                            | 92.2 (77.7)                                |
| 1992 | 0.189                                       | 2.53                            | 2,592                                           | 498                                                            | 94.3 (81.6)                                |
| 1993 | 0.200                                       | 2.83                            | 2,843                                           | 541                                                            | 95.5 (83.9)                                |
| 1994 | 0.194                                       | 2.97                            | 3,229                                           | 595                                                            | 97.2 (86.2)                                |
| 1995 | 0.194                                       | 3.23                            | 3,567                                           | 628                                                            | 97.7 (86.2)                                |
| 1996 | 0.193                                       | 3.45                            | 3,940                                           | 673                                                            | 98.1 (86.3)                                |
| 1997 | 0.192                                       | 3.61                            | 4,290                                           | 708                                                            | 98.3 (86.6)                                |
| 1998 | 0.188                                       | 3.33                            | 4,116                                           | 711                                                            | 97.7 (83.2)                                |
| 1999 | 0.183                                       | 3.59                            | 4,524                                           | 742                                                            | 97.9 (82.5)                                |
| 2000 | 0.183                                       | 3.89                            | 5,015                                           | 789                                                            | 97.8 (82.9)                                |
| 2001 | 0.178                                       | 3.92                            | 5,357                                           | 828                                                            | 98.0 (82.9)                                |
| 2002 | 0.174                                       | 4.12                            | 5,756                                           | 887                                                            | 97.9 (82.8)                                |
| 2003 | 0.174                                       | 4.21                            | 6,020                                           | 931                                                            | 97.6 (81.6)                                |
| 2004 | 0.168                                       | 4.27                            | 6,373                                           | 1,011                                                          | 97.5 (81.6)                                |
| 2005 | 0.166                                       | 4.39                            | 6,774                                           | 1,056                                                          | 97.5 (80.1)                                |
| 2006 | 0.161                                       | 4.46                            | 7,064                                           | 1,084                                                          | 97.4 (80.2)                                |
| 2007 | 0.161                                       | 4.69                            | 7,430                                           | 1,113                                                          | 97.5 (84.1)                                |
| 2008 | 0.158                                       | 4.72                            | 7,696                                           | 1,146                                                          | 97.5 (83.5)                                |
| 2009 | 0.162                                       | 4.84                            | 7,837                                           | 1,168                                                          | 97.4 (84.1)                                |
| 2010 | 0.161                                       | 5.13                            | 8,587                                           | 1,235                                                          | 97.5 (85.0)                                |
| 2011 | 0.165                                       | 5.39                            | 8,924                                           | 1,233                                                          | 97.4 (85.0)                                |
| 2012 | 0.160                                       | 5.36                            | 9,095                                           | 1,266                                                          | 97.3 (85.5)                                |
| 2013 | 0.156                                       | 5.34                            | 9,210                                           | 1,269                                                          | 97.1 (86.2)                                |
| 2014 | 0.152                                       | 5.35                            | 9,189                                           | 1,235                                                          | 96.9 (84.8)                                |
| 2015 | 0.150                                       | 5.43                            | 9,261                                           | 1,250                                                          | 96.8 (84.2)                                |
| 2016 | 0.152                                       | 5.62                            | 9,465                                           | 1,292                                                          | 96.6 (84.7)                                |
| 2017 | 0.151                                       | 5.78                            | 9,640                                           | 1,295                                                          | 96.1 (85.4)                                |
| 2018 | 0.148                                       | 5.83                            | 9,949                                           | 1,370                                                          | 95.8 (86.3)                                |
| 2019 | 0.144                                       | 5.75                            | 9,800                                           | 1,361                                                          | 95.7 (85.2)                                |
| 2020 | 0.139                                       | 5.51                            | 9,586                                           | 1,429                                                          | 95.0 (83.1)                                |
| 2021 | 0.140                                       | 5.81                            | 10,051                                          | 1,498                                                          | 94.8 (83.6)                                |
| 2022 | 0.137                                       | 5.88                            | 10,361                                          | 1,520                                                          | 94.4 (82.0)                                |
| 2023 | 0.133                                       | 5.75                            | 10,339                                          | 1,545                                                          | 93.9 (81.0)                                |
|      | TPES/GDP <sup>1</sup><br>(toe/Mil. KRW)     | TPES per Capita<br>(toe/Capita) | Elec. Consumption<br>per Capita<br>(kWh/Capita) | Elec. Consumption in<br>Residential per Capita<br>(kWh/Capita) | Overseas<br>Dependence <sup>2</sup><br>(%) |

1. 연쇄가중법에 의해 추계된 실질 GDP(2020년 기준년), 한국은행

2. ( )는 원자력 발전을 국내생산에 포함시 수입의존도

3. 연소에 의한 CO2 배출량인이며, IEA 에너지밸런스 및 개정된 1996년 IPCC 지침에 의해 산출



## 1-1. Major Energy Indicators

| 석유의존도<br>(%)                | 일차에너지공급<br>(천toe)   | 최종소비<br>(천toe)     | 이산화탄소배출 <sup>3</sup><br>(백만톤 CO <sub>2</sub> eq.)                         |      |
|-----------------------------|---------------------|--------------------|---------------------------------------------------------------------------|------|
| 52.8                        | 89,680              | 71,149             | 231.8                                                                     | 1990 |
| 54.4                        | 96,801              | 80,179             | 255.8                                                                     | 1991 |
| 59.5                        | 110,524             | 89,965             | 275.9                                                                     | 1992 |
| 60.3                        | 124,999             | 99,399             | 302.9                                                                     | 1993 |
| 60.9                        | 132,512             | 109,321            | 327.4                                                                     | 1994 |
| 60.3                        | 145,618             | 116,507            | 357.3                                                                     | 1995 |
| 59.3                        | 156,834             | 125,595            | 381.7                                                                     | 1996 |
| 58.1                        | 165,755             | 134,487            | 402.3                                                                     | 1997 |
| 52.2                        | 154,234             | 122,026            | 343.7                                                                     | 1998 |
| 51.9                        | 167,342             | 133,012            | 378.2                                                                     | 1999 |
| 49.6                        | 183,079             | 140,956            | 422.5                                                                     | 2000 |
| 48.6                        | 185,810             | 143,588            | 431.0                                                                     | 2001 |
| 47.1                        | 196,453             | 150,380            | 433.9                                                                     | 2002 |
| 46.0                        | 201,738             | 154,107            | 436.0                                                                     | 2003 |
| 43.7                        | 205,220             | 156,559            | 459.8                                                                     | 2004 |
| 41.8                        | 211,345             | 158,920            | 457.7                                                                     | 2005 |
| 41.4                        | 216,261             | 162,883            | 464.7                                                                     | 2006 |
| 44.4                        | 228,129             | 167,623            | 477.4                                                                     | 2007 |
| 41.7                        | 231,299             | 169,049            | 488.8                                                                     | 2008 |
| 42.1                        | 238,482             | 170,068            | 502.1                                                                     | 2009 |
| 39.4                        | 254,436             | 184,372            | 550.9                                                                     | 2010 |
| 37.4                        | 269,200             | 193,576            | 573.8                                                                     | 2011 |
| 38.2                        | 268,994             | 193,602            | 575.5                                                                     | 2012 |
| 37.6                        | 269,532             | 194,844            | 574.6                                                                     | 2013 |
| 37.2                        | 271,253             | 195,827            | 562.7                                                                     | 2014 |
| 38.4                        | 276,803             | 198,618            | 582.0                                                                     | 2015 |
| 40.0                        | 288,048             | 206,742            | 588.8                                                                     | 2016 |
| 39.1                        | 296,739             | 213,147            | 599.8                                                                     | 2017 |
| 38.1                        | 300,754             | 214,407            | 605.5                                                                     | 2018 |
| 38.8                        | 297,629             | 212,132            | 587.2                                                                     | 2019 |
| 37.8                        | 285,553             | 203,956            | 546.8                                                                     | 2020 |
| 38.3                        | 300,550             | 216,245            | 558.6                                                                     | 2021 |
| 37.7                        | 303,980             | 213,572            | 548.6                                                                     | 2022 |
| 37.3                        | 297,598             | 208,172            | 549.6                                                                     | 2023 |
| Petroleum Dependence<br>(%) | TPES<br>(Thou. toe) | TFC<br>(Thou. toe) | CO <sub>2</sub> Emissions <sup>3</sup><br>(Mil. Tons CO <sub>2</sub> eq.) |      |

1. GDP is based on chained prices(based on 2020), Bank of Korea

2. Figures in parentheses denote overseas dependence ratio excluding nuclear generation.

3. CO<sub>2</sub> emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 1996 IPCC Guidelines.



## 1-2. 에너지 생산 및 수출입

단위: 천 toe

|      | 국내생산                |             |                                 |                     |         |       |      |
|------|---------------------|-------------|---------------------------------|---------------------|---------|-------|------|
|      | 석탄                  | 가스          | 원유 및 정제원료                       | 신재생 및 기타            | 원자력     | 수력    | 열    |
| 1990 | 7,748               | -           | -                               | 16                  | 13,222  | 1,571 | 3    |
| 1991 | 6,776               | -           | -                               | 21                  | 14,078  | 872   | 3    |
| 1992 | 5,386               | -           | -                               | 19                  | 14,133  | 774   | 2    |
| 1993 | 4,249               | -           | -                               | 22                  | 14,535  | 1,057 | 3    |
| 1994 | 3,347               | -           | -                               | 25                  | 14,663  | 587   | 3    |
| 1995 | 2,574               | -           | -                               | 337                 | 16,757  | 690   | 3    |
| 1996 | 2,228               | -           | -                               | 386                 | 18,481  | 606   | 3    |
| 1997 | 2,030               | -           | -                               | 517                 | 19,271  | 703   | 2    |
| 1998 | 1,962               | -           | -                               | 733                 | 22,422  | 1,070 | 9    |
| 1999 | 1,889               | -           | -                               | 793                 | 25,766  | 1,040 | 7    |
| 2000 | 1,868               | -           | -                               | 1,135               | 27,241  | 1,002 | 10   |
| 2001 | 1,718               | -           | -                               | 1,407               | 28,033  | 582   | 13   |
| 2002 | 1,493               | -           | -                               | 1,556               | 29,776  | 808   | 14   |
| 2003 | 1,484               | -           | -                               | 1,796               | 32,418  | 1,226 | 20   |
| 2004 | 1,436               | 212         | -                               | 2,051               | 32,679  | 1,082 | 19   |
| 2005 | 1,274               | 518         | 55                              | 1,946               | 36,695  | 919   | 12   |
| 2006 | 1,271               | 461         | 45                              | 2,217               | 37,187  | 867   | 17   |
| 2007 | 1,342               | 353         | 35                              | 2,568               | 30,731  | 781   | 14   |
| 2008 | 1,289               | 236         | 23                              | 2,917               | 32,456  | 660   | 38   |
| 2009 | 1,171               | 498         | 47                              | 3,452               | 31,771  | 616   | 49   |
| 2010 | 969                 | 539         | 56                              | 3,773               | 31,948  | 797   | 16   |
| 2011 | 969                 | 451         | 42                              | 4,485               | 33,265  | 989   | 135  |
| 2012 | 942                 | 436         | 39                              | 4,869               | 31,719  | 838   | 124  |
| 2013 | 817                 | 463         | 42                              | 5,440               | 29,283  | 906   | 113  |
| 2014 | 787                 | 322         | 29                              | 6,636               | 33,002  | 581   | 68   |
| 2015 | 794                 | 188         | 17                              | 7,455               | 34,765  | 454   | 125  |
| 2016 | 777                 | 154         | 15                              | 8,258               | 34,181  | 603   | 117  |
| 2017 | 702                 | 341         | 32                              | 9,960               | 31,615  | 601   | 127  |
| 2018 | 569                 | 305         | 28                              | 11,008              | 28,437  | 719   | 68   |
| 2019 | 513                 | 259         | 23                              | 11,544              | 31,079  | 594   | 66   |
| 2020 | 482                 | 185         | 15                              | 12,624              | 34,119  | 826   | 73   |
| 2021 | 425                 | 55          | 5                               | 14,373              | 33,657  | 651   | 68   |
| 2022 | 386                 | -           | 2                               | 15,908              | 37,500  | 755   | 69   |
| 2023 | 304                 | -           | -                               | 16,902              | 38,445  | 792   | 73   |
|      | Coal                | Natural gas | Crude oil & refinery feedstocks | Renewables & others | Nuclear | Hydro | Heat |
|      | Domestic Production |             |                                 |                     |         |       |      |

자료 : 한국무역협회, 한국석유공사

## 1-2. Energy Production, Import and Export

Unit: Thousand toe

| 수입      |             |                                 |                    | 수출      |                                 |                    |      |
|---------|-------------|---------------------------------|--------------------|---------|---------------------------------|--------------------|------|
| 석탄      | 가스          | 석유                              |                    | 석탄      | 원유 및 정제원료                       | 석유제품               |      |
|         |             | 원유 및 정제원료                       | 석유제품               |         |                                 |                    |      |
| 15,832  | 2,909       | 42,465                          | 13,403             | 5       | -                               | 3,997              | 1990 |
| 19,331  | 3,243       | 54,600                          | 14,487             | 4       | -                               | 10,418             | 1991 |
| 20,190  | 3,892       | 69,996                          | 17,586             | 2       | 112                             | 13,769             | 1992 |
| 23,567  | 5,797       | 77,531                          | 21,468             | 0       | 94                              | 15,386             | 1993 |
| 25,904  | 7,795       | 80,727                          | 24,514             | 104     | 148                             | 13,791             | 1994 |
| 28,942  | 8,782       | 88,810                          | 26,259             | 4       | 31                              | 17,748             | 1995 |
| 30,616  | 12,035      | 101,430                         | 27,411             | 1       | 280                             | 22,691             | 1996 |
| 32,774  | 14,912      | 119,950                         | 23,106             | 53      | 266                             | 33,143             | 1997 |
| 34,450  | 13,246      | 112,392                         | 21,498             | 3       | 48                              | 42,232             | 1998 |
| 35,229  | 15,970      | 120,594                         | 22,474             | 1       | 49                              | 42,544             | 1999 |
| 41,943  | 19,811      | 123,049                         | 25,388             | 3       | 129                             | 43,374             | 2000 |
| 43,822  | 19,913      | 118,891                         | 25,653             | 1       | 134                             | 41,763             | 2001 |
| 46,058  | 23,390      | 109,680                         | 28,670             | 1       | 163                             | 33,382             | 2002 |
| 47,109  | 25,101      | 111,227                         | 27,361             | 1       | 57                              | 29,168             | 2003 |
| 51,995  | 28,316      | 113,564                         | 23,906             | 7       | 17                              | 32,616             | 2004 |
| 50,266  | 29,013      | 116,537                         | 21,669             | 12      | 5                               | 38,071             | 2005 |
| 52,053  | 32,832      | 121,897                         | 23,280             | 9       | 4                               | 40,250             | 2006 |
| 56,340  | 33,240      | 128,166                         | 25,469             | 9       | 79                              | 39,975             | 2007 |
| 63,723  | 35,436      | 127,156                         | 27,409             | 26      | 314                             | 45,248             | 2008 |
| 65,216  | 33,568      | 122,816                         | 33,239             | 4       | 415                             | 44,211             | 2009 |
| 75,340  | 42,384      | 128,349                         | 34,227             | 8       | 620                             | 47,946             | 2010 |
| 82,125  | 47,690      | 136,259                         | 34,358             | 41      | 751                             | 55,756             | 2011 |
| 78,261  | 47,184      | 138,986                         | 37,636             | 20      | 460                             | 59,382             | 2012 |
| 78,923  | 51,998      | 134,607                         | 40,847             | 40      | 369                             | 59,909             | 2013 |
| 81,782  | 48,388      | 136,928                         | 40,757             | 28      | 185                             | 62,591             | 2014 |
| 84,123  | 43,509      | 150,983                         | 38,134             | 12      | 446                             | 66,278             | 2015 |
| 83,621  | 43,623      | 158,918                         | 40,923             | 1       | 670                             | 67,839             | 2016 |
| 89,227  | 49,023      | 165,241                         | 38,344             | 86      | 455                             | 70,965             | 2017 |
| 89,484  | 57,484      | 165,588                         | 41,639             | 47      | 764                             | 74,065             | 2018 |
| 85,586  | 53,217      | 157,955                         | 42,140             | 12      | 138                             | 72,374             | 2019 |
| 74,875  | 52,217      | 145,093                         | 41,319             | 110     | 80                              | 65,207             | 2020 |
| 76,172  | 59,987      | 143,343                         | 47,359             | 217     | 323                             | 61,835             | 2021 |
| 75,794  | 60,683      | 156,690                         | 43,276             | 19      | 331                             | 68,987             | 2022 |
| 72,434  | 57,705      | 152,166                         | 44,455             | 0       | 466                             | 68,292             | 2023 |
| Coal    | Natural gas | Crude oil & refinery feedstocks | Petroleum Products | Coal    | Crude oil & refinery feedstocks | Petroleum Products |      |
| Imports |             |                                 |                    | Exports |                                 |                    |      |

Source : Korea International Trade Association, Korea National Oil Corporation



## 1-3. 지역별 석탄 수입

단위: 천톤

|      | 무연탄             |       |             |        |               |                          |                     |
|------|-----------------|-------|-------------|--------|---------------|--------------------------|---------------------|
|      | 합계              | 아시아   | 중동          | 유럽     | 북미            | 중남미                      | 기타 <sup>2</sup>     |
| 1990 | 1,072           | 580   | -           | 85     | 36            | -                        | 371                 |
| 1991 | 1,410           | 1,212 | 79          | 119    | -             | -                        | -                   |
| 1992 | 809             | 779   | -           | 30     | -             | -                        | -                   |
| 1993 | 783             | 783   | -           | -      | -             | -                        | -                   |
| 1994 | 699             | 699   | -           | -      | 0             | -                        | -                   |
| 1995 | 723             | 688   | -           | -      | -             | -                        | 35                  |
| 1996 | 875             | 842   | -           | -      | 0             | -                        | 32                  |
| 1997 | 722             | 651   | -           | 10     | -             | -                        | 60                  |
| 1998 | 789             | 789   | -           | -      | -             | -                        | -                   |
| 1999 | 1,139           | 1,096 | -           | -      | -             | -                        | 43                  |
| 2000 | 2,038           | 1,616 | -           | -      | -             | -                        | 422                 |
| 2001 | 3,110           | 2,530 | -           | -      | -             | -                        | 580                 |
| 2002 | 3,879           | 2,966 | -           | 0      | -             | -                        | 913                 |
| 2003 | 4,640           | 3,629 | -           | -      | -             | -                        | 1,011               |
| 2004 | 4,251           | 3,180 | -           | 33     | 33            | -                        | 1,006               |
| 2005 | 4,567           | 3,119 | -           | 16     | 104           | -                        | 1,328               |
| 2006 | 5,113           | 3,168 | -           | 233    | 408           | -                        | 1,304               |
| 2007 | 5,444           | 3,491 | -           | 175    | 45            | 7                        | 1,726               |
| 2008 | 5,955           | 4,253 | -           | 71     | 0             | -                        | 1,631               |
| 2009 | 6,468           | 4,168 | -           | 124    | -             | 0                        | 2,176               |
| 2010 | 7,406           | 4,603 | -           | 620    | -             | -                        | 2,183               |
| 2011 | 8,816           | 4,294 | -           | 1,326  | 261           | -                        | 2,934               |
| 2012 | 8,055           | 3,660 | -           | 1,457  | 22            | -                        | 2,916               |
| 2013 | 8,482           | 2,791 | -           | 1,966  | -             | -                        | 3,725               |
| 2014 | 8,294           | 2,667 | -           | 1,724  | -             | -                        | 3,903               |
| 2015 | 8,938           | 1,529 | -           | 2,787  | -             | -                        | 4,622               |
| 2016 | 9,424           | 1,472 | -           | 3,904  | -             | -                        | 4,048               |
| 2017 | 7,003           | 1,388 | 21          | 3,232  | -             | 65                       | 2,297               |
| 2018 | 8,201           | 1,432 | -           | 4,166  | -             | 95                       | 2,507               |
| 2019 | 6,858           | 688   | -           | 3,031  | -             | 98                       | 3,041               |
| 2020 | 6,286           | 333   | -           | 3,211  | -             | 88                       | 2,655               |
| 2021 | 6,475           | 275   | -           | 2,617  | -             | 92                       | 3,491               |
| 2022 | 5,384           | 301   | -           | 2,107  | -             | 191                      | 2,785               |
| 2023 | 4,639           | 150   | -           | 2,195  | -             | 256                      | 2,038               |
|      | Total           | Asia  | Middle East | Europe | North America | Centre and South America | Others <sup>2</sup> |
|      | Anthracite Coal |       |             |        |               |                          |                     |

1. 원료탄, 기타무연탄, 아역청탄의 합계

2. 아프리카, 대양주, 기타

자료: 한국무역협회

### 1-3. Coal Imports by Origin

Unit: Thousand Tons

| 유연탄 <sup>1</sup>             |        |             |        |               |                          |                     |      |
|------------------------------|--------|-------------|--------|---------------|--------------------------|---------------------|------|
| 합계                           | 아시아    | 중동          | 유럽     | 북미            | 중남미                      | 기타 <sup>2</sup>     |      |
| 22,846                       | 2,778  | -           | 1,065  | 7,821         | -                        | 11,182              | 1990 |
| 27,849                       | 3,426  | 141         | 549    | 10,260        | 112                      | 13,361              | 1991 |
| 29,321                       | 4,200  | -           | 359    | 7,618         | -                        | 17,144              | 1992 |
| 34,191                       | 5,581  | -           | 952    | 8,201         | -                        | 19,457              | 1993 |
| 37,854                       | 7,848  | -           | 674    | 7,946         | -                        | 21,385              | 1994 |
| 42,359                       | 9,719  | -           | 888    | 9,668         | -                        | 22,085              | 1995 |
| 45,160                       | 10,863 | -           | 813    | 9,477         | -                        | 24,008              | 1996 |
| 48,237                       | 11,682 | -           | 1,089  | 8,368         | -                        | 27,098              | 1997 |
| 50,566                       | 11,821 | -           | 649    | 8,669         | 65                       | 29,361              | 1998 |
| 51,101                       | 17,456 | -           | 844    | 7,006         | -                        | 25,794              | 1999 |
| 59,601                       | 25,098 | -           | 2,565  | 7,163         | -                        | 24,774              | 2000 |
| 61,857                       | 29,392 | -           | 1,947  | 6,093         | -                        | 24,425              | 2001 |
| 64,640                       | 31,085 | -           | 2,937  | 4,543         | -                        | 26,074              | 2002 |
| 65,318                       | 33,063 | -           | 3,070  | 3,853         | -                        | 25,333              | 2003 |
| 72,103                       | 32,557 | -           | 5,280  | 5,135         | -                        | 29,131              | 2004 |
| 69,330                       | 31,090 | -           | 3,547  | 4,913         | -                        | 29,779              | 2005 |
| 70,888                       | 33,675 | -           | 4,799  | 4,814         | -                        | 27,600              | 2006 |
| 79,355                       | 39,101 | -           | 6,181  | 6,276         | -                        | 27,797              | 2007 |
| 90,469                       | 38,522 | -           | 7,450  | 7,519         | -                        | 36,978              | 2008 |
| 92,952                       | 38,229 | -           | 4,796  | 9,051         | 72                       | 40,804              | 2009 |
| 106,096                      | 41,992 | -           | 8,281  | 12,572        | 1,696                    | 41,555              | 2010 |
| 116,118                      | 40,580 | -           | 11,883 | 20,167        | 306                      | 43,183              | 2011 |
| 114,645                      | 38,066 | -           | 11,243 | 18,371        | 1,936                    | 45,029              | 2012 |
| 116,222                      | 37,231 | -           | 13,291 | 18,944        | 324                      | 46,432              | 2013 |
| 117,873                      | 34,952 | -           | 15,748 | 16,116        | 9                        | 51,048              | 2014 |
| 119,322                      | 30,388 | -           | 19,978 | 12,744        | 173                      | 56,038              | 2015 |
| 118,468                      | 33,887 | -           | 21,818 | 10,310        | 2,619                    | 49,835              | 2016 |
| 131,464                      | 36,094 | 111         | 22,845 | 14,508        | 3,786                    | 54,120              | 2017 |
| 131,520                      | 34,201 | -           | 25,679 | 15,953        | 5,439                    | 50,247              | 2018 |
| 132,667                      | 30,599 | -           | 26,660 | 16,153        | 5,255                    | 54,000              | 2019 |
| 115,373                      | 24,262 | -           | 23,285 | 15,571        | 4,898                    | 47,358              | 2020 |
| 117,106                      | 19,634 | -           | 19,489 | 13,027        | 2,793                    | 62,162              | 2021 |
| 117,752                      | 27,061 | 118         | 24,469 | 13,240        | 1,751                    | 51,113              | 2022 |
| 112,932                      | 27,272 | -           | 24,575 | 12,599        | 5,594                    | 42,893              | 2023 |
| Total                        | Asia   | Middle East | Europe | North America | Centre and South America | Others <sup>2</sup> |      |
| Bituminous Coal <sup>1</sup> |        |             |        |               |                          |                     |      |

1. Coking coal, other bituminous and sub-bituminous coal.

2. Africa, Oceania, Others

Source: Korea International Trade Association.



## 1-4. 지역별 원유 수입

## Crude Oil Imports by Region

단위: 천배럴

Unit: Thousand Barrels

|      | 합계        | 중동          |              |         |         | 아시아     | 아프리카    | 아메리카 및 유럽          |
|------|-----------|-------------|--------------|---------|---------|---------|---------|--------------------|
|      |           |             | 사우디          | 아랍에미리트  | 쿠웨이트    |         |         |                    |
| 1990 | 308,368   | 229,017     | 39,616       | 49,877  | 17,069  | 62,530  | 9,689   | 7,132              |
| 1991 | 399,303   | 294,357     | 133,588      | 46,135  | -       | 82,695  | 5,551   | 16,701             |
| 1992 | 509,378   | 380,452     | 155,104      | 53,206  | 14,372  | 95,033  | 12,822  | 21,071             |
| 1993 | 560,563   | 430,839     | 172,413      | 57,576  | 29,334  | 96,233  | 15,790  | 17,702             |
| 1994 | 573,714   | 439,330     | 177,619      | 48,598  | 27,239  | 91,083  | 23,225  | 20,075             |
| 1995 | 624,945   | 486,528     | 226,863      | 70,536  | 25,233  | 82,050  | 37,911  | 18,456             |
| 1996 | 721,927   | 561,098     | 252,665      | 91,620  | 41,134  | 98,631  | 37,024  | 25,174             |
| 1997 | 873,415   | 645,678     | 267,888      | 127,395 | 55,091  | 121,372 | 82,126  | 24,240             |
| 1998 | 819,094   | 622,005     | 234,450      | 122,022 | 66,894  | 113,494 | 61,907  | 21,689             |
| 1999 | 874,090   | 632,067     | 241,747      | 117,405 | 53,284  | 93,517  | 109,560 | 38,946             |
| 2000 | 893,943   | 686,916     | 264,925      | 128,064 | 66,627  | 112,669 | 67,749  | 26,610             |
| 2001 | 859,367   | 661,649     | 255,432      | 128,405 | 64,407  | 130,033 | 39,155  | 28,530             |
| 2002 | 790,992   | 579,865     | 240,765      | 105,905 | 56,996  | 136,756 | 35,877  | 38,494             |
| 2003 | 804,809   | 639,453     | 250,473      | 138,869 | 65,885  | 100,721 | 34,156  | 30,479             |
| 2004 | 825,790   | 645,183     | 253,849      | 145,598 | 64,659  | 116,287 | 42,874  | 21,447             |
| 2005 | 843,203   | 689,356     | 249,337      | 150,608 | 79,679  | 111,937 | 34,424  | 7,487              |
| 2006 | 888,794   | 730,843     | 261,563      | 158,865 | 92,620  | 110,306 | 42,814  | 4,831              |
| 2007 | 872,541   | 704,020     | 249,887      | 141,887 | 94,031  | 131,273 | 35,557  | 1,690              |
| 2008 | 864,872   | 746,458     | 262,637      | 158,109 | 104,593 | 108,482 | 9,932   | -                  |
| 2009 | 835,085   | 705,363     | 254,799      | 114,592 | 100,090 | 116,379 | 11,608  | 1,734              |
| 2010 | 872,415   | 713,647     | 276,787      | 105,656 | 103,079 | 152,354 | 4,592   | 1,823              |
| 2011 | 927,044   | 807,908     | 291,348      | 87,234  | 117,370 | 108,402 | 2,772   | 7,962              |
| 2012 | 947,292   | 805,971     | 303,049      | 86,536  | 137,647 | 88,190  | 9,233   | 43,899             |
| 2013 | 915,075   | 786,813     | 286,588      | 110,809 | 139,853 | 97,047  | 8,096   | 23,119             |
| 2014 | 927,524   | 788,923     | 292,592      | 108,472 | 136,546 | 88,623  | 25,301  | 34,678             |
| 2015 | 1,026,107 | 844,637     | 305,779      | 99,835  | 141,856 | 106,263 | 26,691  | 48,516             |
| 2016 | 1,078,119 | 926,201     | 324,448      | 87,743  | 159,273 | 72,756  | 30,496  | 48,667             |
| 2017 | 1,118,167 | 913,446     | 319,221      | 90,971  | 160,368 | 97,233  | 28,189  | 79,300             |
| 2018 | 1,116,281 | 820,994     | 323,174      | 72,030  | 162,005 | 122,832 | 40,901  | 131,554            |
| 2019 | 1,071,923 | 752,564     | 296,871      | 88,811  | 150,587 | 107,943 | 19,928  | 191,489            |
| 2020 | 980,259   | 676,409     | 325,808      | 77,563  | 129,699 | 88,493  | 24,549  | 190,808            |
| 2021 | 960,147   | 574,430     | 281,774      | 56,809  | 101,721 | 113,932 | 32,000  | 239,785            |
| 2022 | 1,031,283 | 695,122     | 339,567      | 85,235  | 103,656 | 91,418  | 27,703  | 217,040            |
| 2023 | 1,005,770 | 723,134     | 327,603      | 109,866 | 96,195  | 69,224  | 16,048  | 197,364            |
|      | Total     | Middle East | Saudi Arabia | U.A.E   | Kuwait  | Asia    | Africa  | America and Europe |

자료: 한국석유공사

Source: Korea National Oil Corporation

## 1-5. 국별 천연가스 수입

## LNG Imports by Country

단위: 천톤

Unit: Thousand Tons

|      | 합계     | 인도네시아     | 카타르    | 말레이시아    | 오만    | 미국            | 호주        | 기타 <sup>1</sup>     |
|------|--------|-----------|--------|----------|-------|---------------|-----------|---------------------|
| 1990 | 2,237  | 2,237     | -      | -        | -     | 0             | -         | -                   |
| 1991 | 2,494  | 2,436     | -      | 58       | -     | -             | -         | -                   |
| 1992 | 2,994  | 2,935     | -      | 58       | -     | -             | -         | -                   |
| 1993 | 4,459  | 4,112     | -      | 290      | -     | -             | 57        | -                   |
| 1994 | 5,996  | 5,433     | -      | 292      | -     | -             | -         | 271                 |
| 1995 | 6,756  | 4,892     | -      | 1,040    | -     | -             | 114       | 710                 |
| 1996 | 9,258  | 5,975     | -      | 2,573    | -     | 0             | 56        | 654                 |
| 1997 | 11,471 | 6,730     | -      | 3,928    | -     | -             | -         | 813                 |
| 1998 | 10,189 | 6,736     | -      | 2,851    | -     | -             | -         | 602                 |
| 1999 | 12,284 | 7,943     | 480    | 3,046    | -     | 0             | -         | 815                 |
| 2000 | 15,239 | 6,633     | 3,251  | 2,529    | 1,619 | 0             | 54        | 1,153               |
| 2001 | 15,318 | 4,055     | 4,655  | 2,175    | 3,784 | 0             | 57        | 591                 |
| 2002 | 17,993 | 5,256     | 5,123  | 2,400    | 3,970 | 0             | 176       | 1,068               |
| 2003 | 19,308 | 5,200     | 5,694  | 2,798    | 4,714 | -             | 123       | 779                 |
| 2004 | 21,781 | 5,290     | 5,818  | 4,638    | 4,411 | 0             | 285       | 1,339               |
| 2005 | 22,317 | 5,502     | 6,211  | 4,688    | 4,244 | -             | 748       | 925                 |
| 2006 | 25,256 | 5,060     | 6,458  | 5,546    | 5,221 | -             | 701       | 2,270               |
| 2007 | 25,569 | 3,755     | 8,031  | 6,161    | 4,792 | 0             | 422       | 2,407               |
| 2008 | 27,259 | 3,053     | 8,744  | 6,247    | 4,544 | -             | 398       | 4,273               |
| 2009 | 25,822 | 3,084     | 6,973  | 5,874    | 4,551 | -             | 1,314     | 4,026               |
| 2010 | 32,603 | 5,451     | 7,449  | 4,745    | 4,557 | 232           | 1,030     | 9,140               |
| 2011 | 36,685 | 7,894     | 8,153  | 4,144    | 4,195 | 113           | 787       | 11,398              |
| 2012 | 36,184 | 7,445     | 10,278 | 4,082    | 4,127 | 57            | 832       | 9,362               |
| 2013 | 39,876 | 5,627     | 13,354 | 4,314    | 4,331 | -             | 620       | 11,629              |
| 2014 | 37,107 | 5,176     | 12,853 | 3,673    | 3,726 | -             | 836       | 10,842              |
| 2015 | 33,366 | 3,776     | 12,442 | 3,698    | 3,990 | -             | 1,952     | 7,507               |
| 2016 | 33,453 | 4,362     | 11,880 | 3,813    | 4,081 | 28            | 4,695     | 4,595               |
| 2017 | 37,537 | 3,542     | 11,554 | 3,749    | 4,231 | 1,959         | 6,997     | 5,505               |
| 2018 | 44,015 | 3,447     | 14,245 | 3,702    | 4,282 | 4,658         | 7,871     | 5,811               |
| 2019 | 40,748 | 2,336     | 11,311 | 4,802    | 3,946 | 5,226         | 7,775     | 5,353               |
| 2020 | 39,982 | 2,699     | 9,087  | 4,918    | 3,900 | 5,762         | 7,972     | 5,646               |
| 2021 | 45,932 | 2,387     | 11,464 | 3,906    | 4,415 | 8,478         | 9,465     | 5,818               |
| 2022 | 46,394 | 3,226     | 9,727  | 5,516    | 4,757 | 5,759         | 11,651    | 5,758               |
| 2023 | 44,117 | 2,909     | 8,605  | 6,115    | 4,966 | 5,113         | 10,422    | 5,987               |
|      | Total  | Indonesia | Qatar  | Malaysia | Oman  | United States | Australia | Others <sup>1</sup> |

1. 러시아, 나이지리아, 페루 등.

자료: 한국무역협회

1. Russia, Nigeria, Peru, etc.

Source: Korea International Trade Association



## 1-6. 일차에너지공급

단위: 천toe

|      | 합계      | 석탄     | 유연탄 및 기타   |                       | 가스          |
|------|---------|--------|------------|-----------------------|-------------|
|      |         |        | 무연탄        | 유연탄 및 기타              |             |
| 1990 | 89,680  | 24,523 | 9,339      | 15,183                | 2,958       |
| 1991 | 96,801  | 26,000 | 7,518      | 18,482                | 3,159       |
| 1992 | 110,524 | 25,880 | 6,176      | 19,703                | 3,946       |
| 1993 | 124,999 | 28,192 | 5,095      | 23,097                | 5,759       |
| 1994 | 132,512 | 28,757 | 3,377      | 25,380                | 7,717       |
| 1995 | 145,618 | 31,173 | 2,669      | 28,505                | 8,852       |
| 1996 | 156,834 | 32,647 | 2,557      | 30,090                | 11,690      |
| 1997 | 165,755 | 34,408 | 2,121      | 32,287                | 14,606      |
| 1998 | 154,234 | 36,170 | 2,196      | 33,973                | 13,347      |
| 1999 | 167,342 | 37,011 | 2,369      | 34,642                | 15,955      |
| 2000 | 183,079 | 43,143 | 3,074      | 40,069                | 19,743      |
| 2001 | 185,810 | 45,838 | 3,673      | 42,165                | 19,722      |
| 2002 | 196,453 | 47,987 | 4,041      | 43,946                | 23,797      |
| 2003 | 201,738 | 49,135 | 4,529      | 44,606                | 24,272      |
| 2004 | 205,220 | 51,886 | 4,287      | 47,599                | 27,827      |
| 2005 | 211,345 | 52,975 | 4,708      | 48,267                | 30,367      |
| 2006 | 216,261 | 54,361 | 5,174      | 49,187                | 32,023      |
| 2007 | 228,129 | 58,149 | 5,560      | 52,589                | 34,665      |
| 2008 | 231,299 | 64,925 | 5,872      | 59,052                | 33,792      |
| 2009 | 238,482 | 67,094 | 5,673      | 61,420                | 35,203      |
| 2010 | 254,436 | 76,008 | 5,998      | 70,010                | 41,718      |
| 2011 | 269,200 | 82,386 | 6,796      | 75,591                | 47,318      |
| 2012 | 268,994 | 79,059 | 5,021      | 74,038                | 49,554      |
| 2013 | 269,532 | 80,538 | 5,140      | 75,397                | 51,943      |
| 2014 | 271,253 | 82,764 | 4,867      | 77,897                | 47,409      |
| 2015 | 276,803 | 83,650 | 5,189      | 78,462                | 43,967      |
| 2016 | 288,048 | 83,989 | 5,348      | 78,640                | 45,552      |
| 2017 | 296,739 | 89,786 | 4,109      | 85,677                | 48,583      |
| 2018 | 300,754 | 90,965 | 4,644      | 86,321                | 55,105      |
| 2019 | 297,629 | 85,048 | 3,956      | 81,092                | 53,891      |
| 2020 | 285,553 | 75,983 | 3,605      | 72,377                | 53,956      |
| 2021 | 300,550 | 76,968 | 3,683      | 73,285                | 59,628      |
| 2022 | 303,980 | 75,869 | 3,349      | 72,520                | 59,203      |
| 2023 | 297,598 | 73,700 | 2,908      | 70,793                | 56,648      |
|      | Total   | Coal   | Anthracite | Bituminous and Others | Natural gas |

주: 2007년 이후, 5년마다 개정된 열량 환산계수 적용



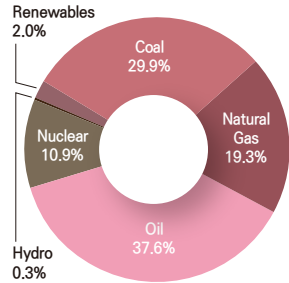
## 1-6. Total Primary Energy Supply

Unit: Thousand toe

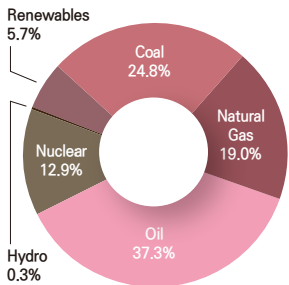
| 석유      | 원자력     | 수력    | 신재생 및<br>기타            | 열                 |      |
|---------|---------|-------|------------------------|-------------------|------|
| 47,387  | 13,222  | 1,571 | 16                     | 3                 | 1990 |
| 52,669  | 14,078  | 872   | 21                     | 3                 | 1991 |
| 65,770  | 14,133  | 774   | 19                     | 2                 | 1992 |
| 75,432  | 14,535  | 1,057 | 22                     | 3                 | 1993 |
| 80,761  | 14,663  | 587   | 25                     | 3                 | 1994 |
| 87,805  | 16,757  | 690   | 337                    | 3                 | 1995 |
| 93,021  | 18,481  | 606   | 386                    | 3                 | 1996 |
| 96,247  | 19,271  | 703   | 517                    | 2                 | 1997 |
| 80,482  | 22,422  | 1,070 | 733                    | 9                 | 1998 |
| 86,771  | 25,766  | 1,040 | 793                    | 7                 | 1999 |
| 90,805  | 27,241  | 1,002 | 1,135                  | 10                | 2000 |
| 90,214  | 28,033  | 582   | 1,407                  | 13                | 2001 |
| 92,515  | 29,776  | 808   | 1,556                  | 14                | 2002 |
| 92,872  | 32,418  | 1,226 | 1,796                  | 20                | 2003 |
| 89,677  | 32,679  | 1,082 | 2,051                  | 19                | 2004 |
| 88,432  | 36,695  | 919   | 1,946                  | 12                | 2005 |
| 89,591  | 37,187  | 867   | 2,214                  | 17                | 2006 |
| 101,220 | 30,731  | 781   | 2,569                  | 14                | 2007 |
| 96,512  | 32,456  | 660   | 2,917                  | 38                | 2008 |
| 100,304 | 31,771  | 616   | 3,447                  | 49                | 2009 |
| 100,177 | 31,948  | 797   | 3,773                  | 16                | 2010 |
| 100,623 | 33,265  | 989   | 4,483                  | 135               | 2011 |
| 102,834 | 31,719  | 838   | 4,867                  | 124               | 2012 |
| 101,307 | 29,283  | 906   | 5,442                  | 113               | 2013 |
| 100,793 | 33,002  | 581   | 6,636                  | 68                | 2014 |
| 106,387 | 34,765  | 454   | 7,455                  | 125               | 2015 |
| 115,344 | 34,181  | 603   | 8,261                  | 117               | 2016 |
| 116,068 | 31,615  | 601   | 9,959                  | 127               | 2017 |
| 114,451 | 28,437  | 719   | 11,009                 | 68                | 2018 |
| 115,409 | 31,079  | 594   | 11,541                 | 66                | 2019 |
| 107,971 | 34,119  | 826   | 12,625                 | 73                | 2020 |
| 115,205 | 33,657  | 651   | 14,373                 | 68                | 2021 |
| 114,676 | 37,500  | 755   | 15,909                 | 69                | 2022 |
| 111,036 | 38,445  | 792   | 16,903                 | 73                | 2023 |
| Oil     | Nuclear | Hydro | Renewables<br>& others | Heat <sup>1</sup> |      |

Note: From 2007, figures are based on revised calorific value every 5 years.

■ 2013 269.5 Mtoe



■ 2023 297.6 Mtoe





## 1-7. 최종소비

단위: 천toe

|      | 합계      | 석탄     | 천연가스        | 도시가스     | 석유제품      |
|------|---------|--------|-------------|----------|-----------|
| 1990 | 71,149  | 20,528 | 5           | 1,012    | 41,591    |
| 1991 | 80,179  | 21,164 | 6           | 1,540    | 48,613    |
| 1992 | 89,965  | 19,950 | 9           | 2,216    | 58,021    |
| 1993 | 99,399  | 20,571 | 18          | 3,002    | 64,980    |
| 1994 | 109,321 | 19,568 | 15          | 4,029    | 73,286    |
| 1995 | 116,507 | 19,422 | 12          | 5,452    | 76,814    |
| 1996 | 125,595 | 20,589 | 1           | 6,929    | 81,458    |
| 1997 | 134,487 | 20,341 | 0           | 8,033    | 87,717    |
| 1998 | 122,026 | 19,415 | 0           | 8,370    | 76,238    |
| 1999 | 133,012 | 19,855 | 2           | 10,455   | 82,739    |
| 2000 | 140,956 | 21,217 | 207         | 12,510   | 84,409    |
| 2001 | 143,588 | 21,788 | 569         | 13,031   | 83,759    |
| 2002 | 150,380 | 22,827 | 623         | 14,305   | 86,294    |
| 2003 | 154,107 | 23,744 | 595         | 15,212   | 86,604    |
| 2004 | 156,559 | 24,394 | 765         | 15,912   | 85,685    |
| 2005 | 158,920 | 23,826 | 632         | 17,672   | 85,207    |
| 2006 | 162,883 | 24,264 | 1,318       | 17,963   | 86,255    |
| 2007 | 167,623 | 25,694 | 838         | 18,599   | 87,399    |
| 2008 | 169,049 | 27,864 | 714         | 19,632   | 84,044    |
| 2009 | 170,068 | 25,145 | 910         | 19,810   | 86,249    |
| 2010 | 184,372 | 30,256 | 960         | 22,361   | 88,981    |
| 2011 | 193,576 | 35,732 | 999         | 23,288   | 89,678    |
| 2012 | 193,602 | 33,267 | 1,060       | 24,464   | 89,321    |
| 2013 | 194,844 | 32,819 | 1,041       | 24,972   | 89,530    |
| 2014 | 195,827 | 36,317 | 1,018       | 21,488   | 90,177    |
| 2015 | 198,618 | 35,479 | 1,132       | 21,305   | 93,333    |
| 2016 | 206,742 | 34,307 | 1,783       | 21,928   | 99,092    |
| 2017 | 213,147 | 35,171 | 1,829       | 23,122   | 101,576   |
| 2018 | 214,407 | 35,377 | 1,785       | 23,793   | 99,734    |
| 2019 | 212,132 | 34,046 | 1,927       | 23,094   | 100,457   |
| 2020 | 203,956 | 32,387 | 2,078       | 22,632   | 94,865    |
| 2021 | 216,245 | 33,915 | 2,097       | 23,382   | 102,260   |
| 2022 | 213,572 | 30,842 | 2,120       | 23,837   | 100,520   |
| 2023 | 208,172 | 30,507 | 2,827       | 22,105   | 96,585    |
|      | Total   | Coal   | Natural gas | City gas | Petroleum |

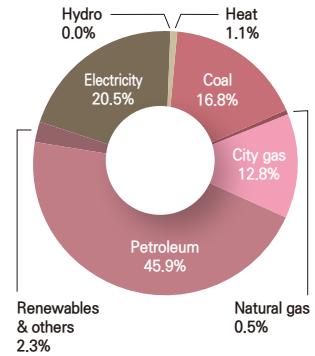
주: 2007년 이후, 5년마다 개정된 열량 환산계수 적용

## 1-7. Total Final Consumption

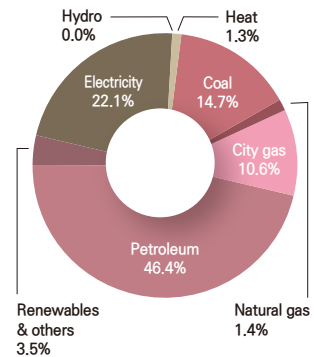
Unit: Thousand toe

| 수력    | 신재생 및 기타            | 전기          | 열     |      |
|-------|---------------------|-------------|-------|------|
| -     | 16                  | 7,997       | -     | 1990 |
| -     | 21                  | 8,835       | -     | 1991 |
| -     | 19                  | 9,751       | -     | 1992 |
| -     | 22                  | 10,806      | -     | 1993 |
| -     | 25                  | 12,398      | -     | 1994 |
| -     | 337                 | 13,832      | 637   | 1995 |
| -     | 386                 | 15,425      | 809   | 1996 |
| -     | 517                 | 16,953      | 928   | 1997 |
| -     | 733                 | 16,386      | 884   | 1998 |
| -     | 792                 | 18,136      | 1,033 | 1999 |
| -     | 1,132               | 20,273      | 1,208 | 2000 |
| -     | 1,403               | 21,822      | 1,217 | 2001 |
| -     | 1,523               | 23,584      | 1,224 | 2002 |
| 4     | 1,755               | 24,796      | 1,395 | 2003 |
| 5     | 1,996               | 26,353      | 1,449 | 2004 |
| 0     | 1,860               | 28,072      | 1,652 | 2005 |
| 0     | 2,108               | 29,427      | 1,549 | 2006 |
| 0     | 2,407               | 31,108      | 1,576 | 2007 |
| 0     | 2,659               | 32,467      | 1,669 | 2008 |
| 11    | 2,994               | 33,235      | 1,715 | 2009 |
| 5     | 3,261               | 36,595      | 1,953 | 2010 |
| 0     | 3,599               | 38,325      | 1,954 | 2011 |
| 0     | 4,140               | 39,264      | 2,085 | 2012 |
| 1     | 4,490               | 39,943      | 2,049 | 2013 |
| 1     | 4,785               | 40,103      | 1,938 | 2014 |
| 1     | 4,832               | 40,630      | 1,905 | 2015 |
| 3     | 5,863               | 41,692      | 2,075 | 2016 |
| 2     | 6,564               | 42,582      | 2,300 | 2017 |
| 3     | 7,040               | 44,139      | 2,535 | 2018 |
| 1     | 6,508               | 43,628      | 2,471 | 2019 |
| 0     | 6,668               | 42,733      | 2,592 | 2020 |
| 1     | 7,141               | 44,748      | 2,701 | 2021 |
| 1     | 7,265               | 46,041      | 2,946 | 2022 |
| 1     | 7,355               | 45,982      | 2,809 | 2023 |
| Hydro | Renewables & others | Electricity | Heat  |      |

■ 2013 194.8 Mtoe



■ 2023 208.2 Mtoe



Note: From 2007, figures are based on revised calorific value every 5 years.



## 1-8 부문별 최종소비

단위: 천toe

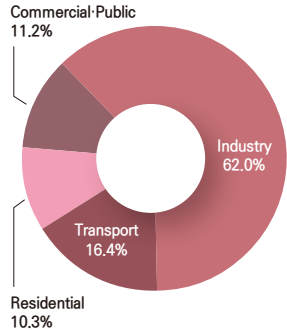
|      | 합계      | 산업       | 석탄     | 천연가스        | 도시가스     | 석유제품      | 신재생 및 기타            | 전기          | 열    |
|------|---------|----------|--------|-------------|----------|-----------|---------------------|-------------|------|
| 1990 | 71,149  | 36,798   | 11,942 | 5           | 235      | 19,641    | -                   | 4,975       | -    |
| 1991 | 80,179  | 43,113   | 14,371 | 6           | 313      | 22,958    | -                   | 5,464       | -    |
| 1992 | 89,965  | 50,075   | 14,945 | 9           | 377      | 28,841    | -                   | 5,904       | -    |
| 1993 | 99,399  | 54,749   | 17,100 | 18          | 460      | 30,769    | -                   | 6,402       | -    |
| 1994 | 109,321 | 61,691   | 17,514 | 15          | 601      | 36,358    | -                   | 7,203       | -    |
| 1995 | 116,507 | 62,275   | 18,091 | 12          | 863      | 35,192    | 33                  | 8,085       | -    |
| 1996 | 125,595 | 67,032   | 19,721 | 1           | 1,158    | 37,191    | 13                  | 8,949       | -    |
| 1997 | 134,487 | 72,649   | 19,727 | 0           | 1,495    | 41,643    | 33                  | 9,752       | -    |
| 1998 | 122,026 | 71,774   | 18,930 | 0           | 1,813    | 41,679    | 246                 | 9,107       | -    |
| 1999 | 133,012 | 76,172   | 19,414 | 2           | 2,531    | 43,862    | 256                 | 10,107      | -    |
| 2000 | 140,956 | 80,962   | 20,746 | 207         | 3,308    | 45,030    | 624                 | 11,047      | -    |
| 2001 | 143,588 | 81,672   | 21,464 | 569         | 3,612    | 44,081    | 612                 | 11,335      | -    |
| 2002 | 150,380 | 85,166   | 22,507 | 623         | 3,984    | 45,449    | 542                 | 12,060      | -    |
| 2003 | 154,107 | 86,781   | 23,430 | 595         | 4,177    | 45,465    | 633                 | 12,480      | -    |
| 2004 | 156,559 | 89,006   | 23,929 | 765         | 4,382    | 46,042    | 758                 | 13,100      | -    |
| 2005 | 158,920 | 89,812   | 23,151 | 632         | 4,655    | 46,354    | 1,189               | 13,830      | -    |
| 2006 | 162,883 | 92,597   | 23,484 | 1,318       | 4,847    | 47,288    | 1,202               | 14,458      | -    |
| 2007 | 167,623 | 97,376   | 24,951 | 838         | 5,225    | 49,601    | 1,336               | 15,426      | -    |
| 2008 | 169,049 | 98,690   | 27,045 | 714         | 5,933    | 47,434    | 1,476               | 16,089      | -    |
| 2009 | 170,068 | 99,033   | 24,437 | 910         | 5,891    | 49,849    | 1,631               | 16,316      | -    |
| 2010 | 184,372 | 109,779  | 29,570 | 960         | 7,329    | 51,920    | 1,550               | 18,449      | -    |
| 2011 | 193,576 | 119,520  | 35,042 | 999         | 8,383    | 53,194    | 1,884               | 20,018      | -    |
| 2012 | 193,602 | 118,736  | 32,607 | 1,060       | 9,443    | 52,988    | 2,076               | 20,562      | -    |
| 2013 | 194,844 | 120,846  | 32,125 | 1,041       | 10,060   | 53,151    | 3,275               | 21,194      | -    |
| 2014 | 195,827 | 122,824  | 35,723 | 1,018       | 7,684    | 53,631    | 2,980               | 21,788      | -    |
| 2015 | 198,618 | 122,434  | 34,940 | 1,132       | 7,539    | 53,966    | 2,977               | 21,880      | -    |
| 2016 | 206,742 | 126,809  | 33,780 | 1,783       | 7,456    | 57,970    | 3,655               | 22,165      | -    |
| 2017 | 213,147 | 131,574  | 34,710 | 1,829       | 7,953    | 60,217    | 4,155               | 22,710      | -    |
| 2018 | 214,407 | 131,130  | 34,989 | 1,785       | 7,842    | 58,942    | 4,281               | 23,289      | 0    |
| 2019 | 212,132 | 129,609  | 33,740 | 1,927       | 7,692    | 59,336    | 3,990               | 22,925      | 0    |
| 2020 | 203,956 | 124,223  | 32,147 | 2,078       | 7,345    | 56,714    | 4,030               | 21,908      | 0    |
| 2021 | 216,245 | 133,541  | 33,704 | 2,097       | 7,855    | 62,312    | 4,392               | 23,182      | -    |
| 2022 | 213,572 | 129,553  | 30,643 | 2,120       | 7,784    | 60,966    | 4,471               | 23,570      | -    |
| 2023 | 208,172 | 126,412  | 30,324 | 2,827       | 7,199    | 58,334    | 4,640               | 23,088      | -    |
|      | Total   | Industry | Coal   | Natural gas | City gas | Petroleum | Renewables & others | Electricity | Heat |

## 1-8. Total Final Consumption by Sector

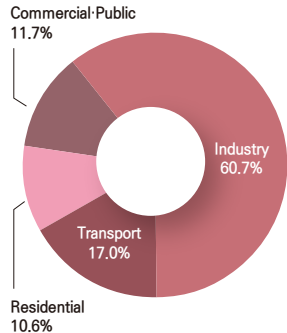
Unit: Thousand toe

| 수송        | 도시가스     | 석유제품      | 신재생 및 기타            | 전기          |      |
|-----------|----------|-----------|---------------------|-------------|------|
| 12,140    | -        | 12,053    | -                   | 87          | 1990 |
| 13,703    | -        | 13,609    | -                   | 94          | 1991 |
| 15,514    | -        | 15,413    | -                   | 101         | 1992 |
| 18,319    | -        | 18,211    | -                   | 108         | 1993 |
| 20,351    | -        | 20,227    | -                   | 124         | 1994 |
| 22,920    | -        | 22,765    | -                   | 155         | 1995 |
| 24,430    | -        | 24,285    | -                   | 145         | 1996 |
| 26,202    | -        | 26,051    | -                   | 151         | 1997 |
| 20,481    | -        | 20,345    | -                   | 136         | 1998 |
| 22,373    | -        | 22,225    | -                   | 149         | 1999 |
| 25,007    | -        | 24,831    | -                   | 175         | 2000 |
| 26,225    | 7        | 26,024    | -                   | 194         | 2001 |
| 28,007    | 80       | 27,733    | -                   | 195         | 2002 |
| 29,001    | 146      | 28,655    | -                   | 200         | 2003 |
| 29,178    | 237      | 28,728    | -                   | 213         | 2004 |
| 29,729    | 339      | 29,166    | -                   | 224         | 2005 |
| 30,928    | 475      | 30,192    | 43                  | 218         | 2006 |
| 30,496    | 615      | 29,577    | 95                  | 209         | 2007 |
| 30,007    | 777      | 28,857    | 177                 | 196         | 2008 |
| 30,389    | 960      | 28,981    | 261                 | 187         | 2009 |
| 31,009    | 1,112    | 29,352    | 357                 | 188         | 2010 |
| 31,016    | 1,174    | 29,302    | 347                 | 193         | 2011 |
| 31,502    | 1,246    | 29,705    | 357                 | 194         | 2012 |
| 32,017    | 1,302    | 30,154    | 375                 | 186         | 2013 |
| 32,406    | 1,306    | 30,534    | 394                 | 172         | 2014 |
| 34,509    | 1,281    | 32,596    | 441                 | 191         | 2015 |
| 36,029    | 1,270    | 34,005    | 523                 | 231         | 2016 |
| 36,260    | 1,253    | 34,196    | 564                 | 246         | 2017 |
| 36,227    | 1,238    | 34,038    | 686                 | 265         | 2018 |
| 37,193    | 1,216    | 35,021    | 685                 | 271         | 2019 |
| 34,745    | 1,099    | 32,666    | 695                 | 285         | 2020 |
| 36,636    | 1,060    | 34,554    | 704                 | 318         | 2021 |
| 36,293    | 1,025    | 34,238    | 682                 | 349         | 2022 |
| 35,316    | 988      | 33,226    | 696                 | 406         | 2023 |
| Transport | City gas | Petroleum | Renewables & others | Electricity |      |

■ 2013 194.8 Mtoe



■ 2023 208.2 Mtoe



## 1-8 부문별 최종소비(계속)

단위: 천toe

|      | 가정          | 석탄    | 도시가스     | 석유제품      | 신재생 및<br>기타            | 전기          | 열     |
|------|-------------|-------|----------|-----------|------------------------|-------------|-------|
| 1990 | 11,262      | 8,023 | 454      | 1,254     | 6                      | 1,525       | -     |
| 1991 | 10,300      | 6,347 | 809      | 1,462     | 7                      | 1,675       | -     |
| 1992 | 9,868       | 4,817 | 1,335    | 1,834     | 7                      | 1,874       | -     |
| 1993 | 9,477       | 3,341 | 1,920    | 2,150     | 9                      | 2,057       | -     |
| 1994 | 9,235       | 1,978 | 2,658    | 2,304     | 12                     | 2,284       | -     |
| 1995 | 10,712      | 1,327 | 3,655    | 2,656     | 37                     | 2,434       | 603   |
| 1996 | 11,713      | 865   | 4,610    | 2,809     | 33                     | 2,635       | 761   |
| 1997 | 12,075      | 612   | 5,284    | 2,442     | 70                     | 2,796       | 871   |
| 1998 | 10,962      | 464   | 5,330    | 1,444     | 64                     | 2,830       | 829   |
| 1999 | 13,837      | 422   | 6,399    | 3,021     | 61                     | 2,974       | 960   |
| 2000 | 16,284      | 450   | 7,353    | 4,099     | 78                     | 3,191       | 1,113 |
| 2001 | 17,020      | 288   | 7,526    | 4,658     | 73                     | 3,372       | 1,102 |
| 2002 | 17,791      | 285   | 8,109    | 4,566     | 77                     | 3,636       | 1,118 |
| 2003 | 17,877      | 280   | 8,531    | 4,010     | 72                     | 3,833       | 1,151 |
| 2004 | 18,063      | 325   | 8,636    | 3,574     | 65                     | 4,181       | 1,283 |
| 2005 | 19,754      | 483   | 9,344    | 4,024     | 79                     | 4,375       | 1,449 |
| 2006 | 19,612      | 572   | 9,232    | 3,845     | 79                     | 4,517       | 1,367 |
| 2007 | 18,872      | 557   | 9,226    | 2,968     | 71                     | 4,659       | 1,391 |
| 2008 | 19,347      | 626   | 9,330    | 3,019     | 66                     | 4,836       | 1,472 |
| 2009 | 19,349      | 550   | 9,369    | 2,815     | 136                    | 4,953       | 1,525 |
| 2010 | 20,733      | 542   | 10,135   | 2,974     | 77                     | 5,263       | 1,742 |
| 2011 | 20,490      | 525   | 10,100   | 2,757     | 71                     | 5,295       | 1,743 |
| 2012 | 20,401      | 483   | 10,147   | 2,384     | 91                     | 5,464       | 1,832 |
| 2013 | 20,166      | 487   | 10,024   | 2,199     | 157                    | 5,501       | 1,797 |
| 2014 | 18,876      | 417   | 9,141    | 2,097     | 111                    | 5,390       | 1,720 |
| 2015 | 18,939      | 379   | 9,130    | 2,064     | 217                    | 5,486       | 1,663 |
| 2016 | 20,150      | 361   | 9,647    | 2,382     | 299                    | 5,691       | 1,771 |
| 2017 | 20,927      | 316   | 10,238   | 2,323     | 375                    | 5,720       | 1,955 |
| 2018 | 22,122      | 265   | 10,901   | 2,335     | 417                    | 6,079       | 2,125 |
| 2019 | 21,560      | 280   | 10,479   | 2,152     | 510                    | 6,059       | 2,080 |
| 2020 | 22,356      | 219   | 10,900   | 2,097     | 569                    | 6,370       | 2,200 |
| 2021 | 22,940      | 193   | 11,104   | 2,096     | 612                    | 6,670       | 2,265 |
| 2022 | 23,560      | 182   | 11,469   | 2,026     | 695                    | 6,756       | 2,432 |
| 2023 | 22,058      | 168   | 10,392   | 1,832     | 516                    | 6,870       | 2,281 |
|      | Residential | Coal  | City gas | Petroleum | Renewables<br>& Others | Electricity | Heat  |

## 1-8. Total Final Consumption by Sector(continue)

Unit: Thousand toe

| 산업·공공                 | 석탄   | 도시가스     | 석유제품      | 수력    | 신재생 및<br>기타            | 전기          | 열    |      |
|-----------------------|------|----------|-----------|-------|------------------------|-------------|------|------|
| 10,948                | 563  | 323      | 8,642     | -     | 11                     | 1,409       | -    | 1990 |
| 13,063                | 446  | 418      | 10,584    | -     | 14                     | 1,601       | -    | 1991 |
| 14,509                | 188  | 503      | 11,934    | -     | 11                     | 1,872       | -    | 1992 |
| 16,855                | 130  | 623      | 13,850    | -     | 13                     | 2,239       | -    | 1993 |
| 18,044                | 77   | 770      | 14,398    | -     | 13                     | 2,787       | -    | 1994 |
| 20,600                | 5    | 935      | 16,201    | -     | 266                    | 3,159       | 34   | 1995 |
| 22,421                | 3    | 1,161    | 17,173    | -     | 340                    | 3,696       | 48   | 1996 |
| 23,560                | 2    | 1,254    | 17,581    | -     | 414                    | 4,253       | 57   | 1997 |
| 18,809                | 22   | 1,227    | 12,770    | -     | 423                    | 4,313       | 55   | 1998 |
| 20,630                | 20   | 1,526    | 13,631    | -     | 475                    | 4,906       | 72   | 1999 |
| 18,703                | 21   | 1,849    | 10,448    | -     | 430                    | 5,860       | 95   | 2000 |
| 18,671                | 35   | 1,886    | 8,996     | -     | 718                    | 6,921       | 115  | 2001 |
| 19,416                | 35   | 2,132    | 8,547     | -     | 904                    | 7,693       | 106  | 2002 |
| 20,448                | 34   | 2,358    | 8,474     | 4     | 1,050                  | 8,283       | 244  | 2003 |
| 20,312                | 140  | 2,656    | 7,341     | 5     | 1,174                  | 8,829       | 166  | 2004 |
| 19,625                | 191  | 3,333    | 5,663     | 0     | 592                    | 9,643       | 202  | 2005 |
| 19,745                | 208  | 3,409    | 4,930     | 0     | 783                    | 10,234      | 182  | 2006 |
| 20,879                | 186  | 3,534    | 5,254     | 0     | 906                    | 10,814      | 185  | 2007 |
| 21,004                | 194  | 3,592    | 4,734     | 0     | 941                    | 11,346      | 198  | 2008 |
| 21,297                | 157  | 3,591    | 4,604     | 11    | 967                    | 11,779      | 189  | 2009 |
| 22,851                | 143  | 3,785    | 4,735     | 5     | 1,277                  | 12,694      | 211  | 2010 |
| 22,550                | 165  | 3,630    | 4,426     | 0     | 1,298                  | 12,819      | 211  | 2011 |
| 22,963                | 177  | 3,628    | 4,245     | 0     | 1,617                  | 13,044      | 252  | 2012 |
| 21,816                | 207  | 3,586    | 4,027     | 1     | 683                    | 13,061      | 252  | 2013 |
| 21,722                | 177  | 3,357    | 3,916     | 1     | 1,300                  | 12,754      | 218  | 2014 |
| 22,735                | 161  | 3,355    | 4,706     | 1     | 1,197                  | 13,073      | 242  | 2015 |
| 23,754                | 166  | 3,555    | 4,734     | 3     | 1,387                  | 13,605      | 304  | 2016 |
| 24,386                | 145  | 3,677    | 4,841     | 2     | 1,471                  | 13,906      | 345  | 2017 |
| 24,929                | 122  | 3,812    | 4,419     | 3     | 1,656                  | 14,506      | 410  | 2018 |
| 23,770                | 26   | 3,708    | 3,948     | 1     | 1,323                  | 14,372      | 391  | 2019 |
| 22,632                | 21   | 3,289    | 3,387     | 0     | 1,374                  | 14,169      | 393  | 2020 |
| 23,128                | 18   | 3,364    | 3,299     | 1     | 1,434                  | 14,578      | 435  | 2021 |
| 24,165                | 17   | 3,558    | 3,290     | 1     | 1,418                  | 15,367      | 514  | 2022 |
| 24,385                | 16   | 3,526    | 3,193     | 1     | 1,504                  | 15,618      | 528  | 2023 |
| Commercial-<br>Public | Coal | City gas | Petroleum | Hydro | Renewables<br>& others | Electricity | Heat |      |

## 1-9. 에너지 다소비 산업의 에너지 소비

단위: 천toe

|      | 제조업           | 다소비산업<br>(A+B+C)                   | 비중(%)    | 석유·<br>화학(A)                     |       |                |             |           |                        |             |
|------|---------------|------------------------------------|----------|----------------------------------|-------|----------------|-------------|-----------|------------------------|-------------|
|      |               |                                    |          |                                  | 석탄    | 천연<br>가스       | 도시<br>가스    | 석유제품      | 신재생 및<br>기타            | 전기          |
| 1990 | 32,968        | 23,943                             | 72.6     | 9,334                            | 173   | -              | 13          | 8,331     | -                      | 818         |
| 1991 | 39,049        | 29,138                             | 74.6     | 11,832                           | 209   | -              | 17          | 10,644    | -                      | 961         |
| 1992 | 45,383        | 35,212                             | 77.6     | 16,679                           | 296   | -              | 25          | 15,274    | -                      | 1,084       |
| 1993 | 49,941        | 39,242                             | 78.6     | 18,686                           | 441   | -              | 28          | 16,999    | -                      | 1,218       |
| 1994 | 56,560        | 44,469                             | 78.6     | 23,027                           | 464   | -              | 34          | 21,209    | -                      | 1,319       |
| 1995 | 56,903        | 43,970                             | 77.3     | 21,596                           | 609   | -              | 54          | 19,516    | -                      | 1,416       |
| 1996 | 61,079        | 45,579                             | 74.6     | 23,292                           | 697   | -              | 77          | 20,949    | -                      | 1,569       |
| 1997 | 66,085        | 49,906                             | 75.5     | 27,504                           | 767   | -              | 110         | 24,886    | -                      | 1,740       |
| 1998 | 66,083        | 50,658                             | 76.7     | 29,879                           | 777   | -              | 164         | 27,041    | 172                    | 1,726       |
| 1999 | 70,114        | 52,688                             | 75.1     | 30,989                           | 810   | -              | 214         | 27,969    | 143                    | 1,852       |
| 2000 | 74,537        | 56,624                             | 76.0     | 33,470                           | 1,436 | -              | 319         | 29,565    | 168                    | 1,983       |
| 2001 | 74,683        | 56,780                             | 76.0     | 33,282                           | 1,400 | -              | 333         | 29,325    | 178                    | 2,046       |
| 2002 | 78,239        | 59,349                             | 75.9     | 35,254                           | 1,430 | -              | 400         | 31,016    | 259                    | 2,150       |
| 2003 | 80,324        | 61,260                             | 76.3     | 36,433                           | 1,408 | -              | 447         | 32,094    | 260                    | 2,225       |
| 2004 | 82,641        | 63,366                             | 76.7     | 38,291                           | 2,151 | -              | 437         | 33,096    | 269                    | 2,338       |
| 2005 | 83,757        | 63,523                             | 75.8     | 38,845                           | 1,639 | -              | 450         | 34,220    | 131                    | 2,404       |
| 2006 | 86,165        | 65,945                             | 76.5     | 40,110                           | 1,642 | -              | 398         | 35,443    | 192                    | 2,436       |
| 2007 | 91,095        | 70,569                             | 77.5     | 43,420                           | 1,599 | -              | 760         | 38,318    | 196                    | 2,548       |
| 2008 | 92,934        | 72,295                             | 77.8     | 43,054                           | 1,817 | -              | 1,157       | 37,201    | 178                    | 2,699       |
| 2009 | 92,741        | 71,418                             | 77.0     | 45,591                           | 1,953 | -              | 1,077       | 39,627    | 184                    | 2,750       |
| 2010 | 103,431       | 80,067                             | 77.4     | 48,754                           | 2,321 | -              | 1,648       | 41,663    | 154                    | 2,967       |
| 2011 | 113,354       | 88,212                             | 77.8     | 52,787                           | 3,024 | -              | 2,207       | 44,018    | 215                    | 3,322       |
| 2012 | 112,662       | 87,450                             | 77.6     | 53,300                           | 2,824 | -              | 2,150       | 44,681    | 171                    | 3,473       |
| 2013 | 114,609       | 88,796                             | 77.5     | 54,825                           | 2,382 | -              | 3,240       | 45,303    | 321                    | 3,579       |
| 2014 | 117,270       | 92,331                             | 78.7     | 55,165                           | 3,069 | -              | 1,609       | 46,604    | 132                    | 3,751       |
| 2015 | 116,709       | 91,371                             | 78.3     | 55,394                           | 2,967 | -              | 1,391       | 46,923    | 301                    | 3,812       |
| 2016 | 120,881       | 94,097                             | 77.8     | 59,559                           | 3,320 | -              | 1,012       | 50,660    | 602                    | 3,965       |
| 2017 | 125,288       | 97,554                             | 77.9     | 62,568                           | 3,830 | -              | 998         | 52,732    | 905                    | 4,103       |
| 2018 | 125,020       | 98,172                             | 78.5     | 63,289                           | 3,716 | -              | 1,994       | 51,937    | 1,405                  | 4,236       |
| 2019 | 123,894       | 97,382                             | 78.6     | 62,695                           | 3,405 | -              | 1,794       | 52,096    | 1,186                  | 4,215       |
| 2020 | 118,448       | 92,684                             | 78.2     | 60,437                           | 3,775 | -              | 1,777       | 49,489    | 1,138                  | 4,259       |
| 2021 | 127,926       | 100,300                            | 78.4     | 67,261                           | 4,137 | 76             | 1,979       | 54,918    | 1,558                  | 4,593       |
| 2022 | 124,140       | 96,395                             | 77.7     | 65,339                           | 3,193 | 316            | 1,922       | 53,969    | 1,345                  | 4,594       |
| 2023 | 121,088       | 93,301                             | 77.1     | 62,121                           | 3,178 | 201            | 1,583       | 51,061    | 1,507                  | 4,592       |
|      | Manufacturing | Energy-<br>Consuming<br>Industries | Share(%) | Chemical<br>and<br>petrochemical | Coal  | Natural<br>gas | City<br>gas | Petroleum | Renewables<br>& others | Electricity |



## 1-9. Energy Consumption of Energy-Intensive Industries

Unit: Thousand Tons

| 비금속<br>(B)   |       |          |           |                     |             | 1차<br>금속(C) |          |             |          |             |                     |             |      |
|--------------|-------|----------|-----------|---------------------|-------------|-------------|----------|-------------|----------|-------------|---------------------|-------------|------|
|              | 석탄    | 도시<br>가스 | 석유<br>제품  | 신재생 및<br>기타         | 전기          | 석탄          | 천연<br>가스 | 도시<br>가스    | 석유<br>제품 | 신재생 및<br>기타 | 전기                  |             |      |
| 4,416        | 2,660 | 37       | 1,235     | -                   | 484         | 10,192      | 8,311    | -           | 64       | 952         | -                   | 865         | 1990 |
| 5,101        | 3,152 | 50       | 1,336     | -                   | 563         | 12,206      | 10,172   | -           | 86       | 1,051       | -                   | 898         | 1991 |
| 5,622        | 3,428 | 60       | 1,519     | -                   | 616         | 12,911      | 10,579   | -           | 103      | 1,303       | -                   | 926         | 1992 |
| 6,104        | 4,060 | 71       | 1,290     | -                   | 682         | 14,452      | 11,856   | -           | 126      | 1,386       | -                   | 1,083       | 1993 |
| 6,931        | 4,418 | 87       | 1,673     | -                   | 753         | 14,512      | 11,569   | -           | 171      | 1,607       | -                   | 1,165       | 1994 |
| 7,008        | 4,508 | 108      | 1,589     | -                   | 802         | 15,367      | 12,175   | -           | 209      | 1,598       | -                   | 1,385       | 1995 |
| 6,281        | 3,800 | 114      | 1,543     | -                   | 825         | 16,006      | 12,713   | -           | 270      | 1,468       | -                   | 1,556       | 1996 |
| 6,828        | 4,351 | 146      | 1,473     | 5                   | 852         | 15,574      | 12,541   | -           | 344      | 889         | -                   | 1,800       | 1997 |
| 5,182        | 3,313 | 157      | 1,031     | 17                  | 665         | 15,597      | 12,779   | -           | 372      | 713         | -                   | 1,733       | 1998 |
| 5,472        | 3,346 | 213      | 1,148     | 48                  | 718         | 16,227      | 12,974   | 2           | 503      | 1,113       | -                   | 1,634       | 1999 |
| 6,060        | 3,503 | 252      | 1,136     | 397                 | 772         | 17,094      | 13,597   | 207         | 647      | 923         | -                   | 1,720       | 2000 |
| 6,155        | 3,613 | 265      | 1,105     | 372                 | 800         | 17,342      | 13,693   | 569         | 715      | 683         | -                   | 1,681       | 2001 |
| 6,191        | 3,742 | 274      | 1,123     | 198                 | 853         | 17,904      | 14,155   | 590         | 719      | 680         | -                   | 1,760       | 2002 |
| 6,540        | 4,000 | 308      | 1,072     | 276                 | 885         | 18,287      | 14,523   | 545         | 797      | 625         | -                   | 1,798       | 2003 |
| 6,193        | 3,504 | 337      | 1,082     | 400                 | 870         | 18,883      | 14,863   | 704         | 885      | 592         | -                   | 1,839       | 2004 |
| 5,832        | 3,173 | 356      | 1,086     | 372                 | 845         | 18,846      | 14,715   | 561         | 972      | 611         | 8                   | 1,979       | 2005 |
| 6,029        | 3,127 | 513      | 1,086     | 416                 | 887         | 19,805      | 14,914   | 1,216       | 1,032    | 547         | -                   | 2,097       | 2006 |
| 6,002        | 3,132 | 470      | 1,019     | 426                 | 955         | 21,147      | 16,257   | 709         | 1,219    | 495         | 124                 | 2,343       | 2007 |
| 6,227        | 3,246 | 417      | 954       | 629                 | 981         | 23,015      | 17,925   | 564         | 1,249    | 436         | 112                 | 2,729       | 2008 |
| 5,625        | 2,767 | 442      | 862       | 588                 | 966         | 20,201      | 15,469   | 674         | 1,239    | 270         | 112                 | 2,436       | 2009 |
| 5,919        | 2,830 | 456      | 929       | 706                 | 999         | 25,394      | 19,939   | 743         | 1,460    | 279         | 7                   | 2,966       | 2010 |
| 6,195        | 3,129 | 474      | 882       | 694                 | 1,017       | 29,231      | 23,513   | 785         | 1,392    | 232         | 7                   | 3,302       | 2011 |
| 5,753        | 2,849 | 572      | 632       | 760                 | 940         | 28,397      | 22,863   | 829         | 1,333    | 136         | 5                   | 3,231       | 2012 |
| 5,855        | 2,863 | 613      | 514       | 899                 | 966         | 28,116      | 22,574   | 784         | 1,376    | 106         | 4                   | 3,271       | 2013 |
| 5,892        | 3,028 | 566      | 457       | 839                 | 1,001       | 31,274      | 25,683   | 740         | 1,267    | 100         | 13                  | 3,472       | 2014 |
| 5,854        | 2,864 | 546      | 540       | 871                 | 1,034       | 30,122      | 24,810   | 863         | 1,155    | 106         | 7                   | 3,182       | 2015 |
| 5,682        | 2,828 | 523      | 582       | 667                 | 1,081       | 28,856      | 23,578   | 979         | 1,191    | 80          | 4                   | 3,024       | 2016 |
| 5,260        | 2,472 | 534      | 512       | 658                 | 1,085       | 29,726      | 24,304   | 1,036       | 1,238    | 90          | 4                   | 3,055       | 2017 |
| 4,956        | 2,196 | 549      | 534       | 633                 | 1,045       | 29,928      | 24,601   | 1,019       | 1,239    | 68          | 4                   | 2,997       | 2018 |
| 5,281        | 2,361 | 578      | 635       | 700                 | 1,008       | 29,405      | 24,176   | 1,104       | 1,232    | 76          | 11                  | 2,805       | 2019 |
| 4,803        | 2,015 | 531      | 566       | 732                 | 959         | 27,444      | 22,792   | 1,266       | 1,030    | 70          | 11                  | 2,275       | 2020 |
| 5,097        | 2,160 | 553      | 524       | 853                 | 1,006       | 27,941      | 23,506   | 1,033       | 1,096    | 67          | 12                  | 2,228       | 2021 |
| 5,155        | 2,143 | 532      | 474       | 991                 | 1,015       | 25,901      | 21,797   | 742         | 1,076    | 56          | 3                   | 2,228       | 2022 |
| 4,809        | 2,039 | 491      | 517       | 779                 | 984         | 26,370      | 22,067   | 1,057       | 1,088    | 58          | 12                  | 2,089       | 2023 |
| Non-Metallic | Coal  | City gas | Petroleum | Renewables & others | Electricity | Iron-Steel  | Coal     | Natural gas | City gas | Petroleum   | Renewables & others | Electricity |      |
|              |       |          |           |                     |             |             |          |             |          |             |                     |             |      |

## 1-10. 천연가스 수급

단위: 천톤

|      | 공급         |         |               |         |
|------|------------|---------|---------------|---------|
|      | 국내생산       | 수입      | 재고변화          | 일차에너지공급 |
| 1990 | -          | 2,237   | 38            | 2,275   |
| 1991 | -          | 2,494   | -64           | 2,430   |
| 1992 | -          | 2,994   | 42            | 3,036   |
| 1993 | -          | 4,459   | -29           | 4,430   |
| 1994 | -          | 5,996   | -60           | 5,936   |
| 1995 | -          | 6,756   | 54            | 6,810   |
| 1996 | -          | 9,258   | -266          | 8,992   |
| 1997 | -          | 11,471  | -236          | 11,235  |
| 1998 | -          | 10,189  | 78            | 10,267  |
| 1999 | -          | 12,284  | -12           | 12,273  |
| 2000 | -          | 15,239  | -52           | 15,187  |
| 2001 | -          | 15,318  | -147          | 15,171  |
| 2002 | -          | 17,993  | 312           | 18,305  |
| 2003 | -          | 19,308  | -638          | 18,671  |
| 2004 | 163        | 21,781  | -539          | 21,405  |
| 2005 | 398        | 22,317  | 643           | 23,359  |
| 2006 | 355        | 25,256  | -977          | 24,633  |
| 2007 | 271        | 25,569  | 825           | 26,665  |
| 2008 | 181        | 27,259  | -1,447        | 25,994  |
| 2009 | 383        | 25,822  | 874           | 27,079  |
| 2010 | 415        | 32,603  | -928          | 32,090  |
| 2011 | 347        | 36,685  | -634          | 36,398  |
| 2012 | 334        | 36,184  | 1,483         | 38,001  |
| 2013 | 355        | 39,876  | -397          | 39,834  |
| 2014 | 247        | 37,107  | -997          | 36,357  |
| 2015 | 144        | 33,366  | 207           | 33,717  |
| 2016 | 118        | 33,453  | 1,361         | 34,933  |
| 2017 | 261        | 37,537  | -598          | 37,200  |
| 2018 | 234        | 44,015  | -2,056        | 42,193  |
| 2019 | 198        | 40,748  | 317           | 41,264  |
| 2020 | 142        | 39,982  | 1,214         | 41,314  |
| 2021 | 42         | 45,932  | -295          | 45,657  |
| 2022 | -          | 46,394  | -1,124        | 45,262  |
| 2023 | -          | 44,117  | -799          | 43,309  |
|      | Production | Imports | Stock changes | TPES    |
|      | Supply     |         |               |         |

1. 석유정제, LNG 생산기지 내의 설비 운용 등

2. 최종소비

자료 : 한국가스공사, LNG 직도입사, 한국무역협회

## 1-10 . Natural Gas Overview

Unit: Thousand Tons

| 소비               |               |                   |                                        |                       |      |
|------------------|---------------|-------------------|----------------------------------------|-----------------------|------|
| 발전전용             | 열병합·열전용       | 가스제조              | 에너지산업자체소비 <sup>1</sup>                 | 산업 <sup>2</sup>       |      |
| 1,741            | -             | 572               | -                                      | 4                     | 1990 |
| 1,800            | -             | 875               | -                                      | 5                     | 1991 |
| 2,019            | 206           | 1,250             | -                                      | 7                     | 1992 |
| 1,661            | 857           | 1,834             | -                                      | 14                    | 1993 |
| 1,709            | 1,620         | 2,442             | -                                      | 12                    | 1994 |
| 1,680            | 1,882         | 3,408             | -                                      | 9                     | 1995 |
| 2,427            | 2,195         | 4,581             | -                                      | 0                     | 1996 |
| 3,147            | 2,229         | 5,770             | 233                                    | 0                     | 1997 |
| 2,466            | 1,723         | 6,233             | 221                                    | 0                     | 1998 |
| 2,858            | 1,909         | 7,886             | 305                                    | 2                     | 1999 |
| 2,575            | 1,954         | 9,528             | 337                                    | 160                   | 2000 |
| 3,004            | 1,846         | 10,299            | 398                                    | 438                   | 2001 |
| 4,086            | 1,968         | 11,169            | 54                                     | 479                   | 2002 |
| 4,116            | 1,933         | 11,939            | 164                                    | 458                   | 2003 |
| 6,281            | 1,973         | 12,456            | 487                                    | 589                   | 2004 |
| 6,664            | 1,959         | 13,978            | 211                                    | 486                   | 2005 |
| 7,981            | 2,033         | 13,879            | 185                                    | 1,014                 | 2006 |
| 7,823            | 3,706         | 14,350            | 136                                    | 645                   | 2007 |
| 7,495            | 4,021         | 15,201            | 173                                    | 549                   | 2008 |
| 6,421            | 3,479         | 15,328            | 52                                     | 700                   | 2009 |
| 9,462            | 5,127         | 17,354            | 274                                    | 739                   | 2010 |
| 12,707           | 3,465         | 18,090            | 470                                    | 769                   | 2011 |
| 13,747           | 4,095         | 19,381            | 363                                    | 813                   | 2012 |
| 15,663           | 4,201         | 19,400            | 144                                    | 798                   | 2013 |
| 14,132           | 3,591         | 17,967            | 111                                    | 781                   | 2014 |
| 12,336           | 3,445         | 16,732            | 57                                     | 868                   | 2015 |
| 12,227           | 3,994         | 17,184            | 123                                    | 1,367                 | 2016 |
| 12,010           | 4,411         | 18,199            | 363                                    | 1,401                 | 2017 |
| 14,802           | 5,562         | 19,624            | 919                                    | 1,367                 | 2018 |
| 14,016           | 5,390         | 18,633            | 1,479                                  | 1,475                 | 2019 |
| 14,258           | 5,721         | 18,045            | 1,848                                  | 1,591                 | 2020 |
| 16,943           | 6,306         | 19,118            | 1,817                                  | 1,605                 | 2021 |
| 16,096           | 6,579         | 19,643            | 1,514                                  | 1,621                 | 2022 |
| 15,134           | 6,485         | 18,129            | 2,020                                  | 2,162                 | 2023 |
| Electricity-only | CHP/Heat-only | Gas manufacturing | Transformation<br>own use <sup>1</sup> | Industry <sup>2</sup> |      |
| Consumption      |               |                   |                                        |                       |      |

1. LNG consumption in oil refinery and LNG terminals

2. Total final consumption.

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

## 1-11. 원유 및 정제원료 수입

단위: 천배럴

|      | 생산         | 수입        | 중동의존도(%)                  | 수출      | 재고변화          |
|------|------------|-----------|---------------------------|---------|---------------|
|      |            |           |                           |         |               |
| 1990 | -          | 310,494   | 74.3                      | -       | 3,469         |
| 1991 | -          | 399,976   | 73.7                      | -       | -1,136        |
| 1992 | -          | 512,082   | 74.7                      | 601     | -1,143        |
| 1993 | -          | 566,233   | 76.9                      | 503     | -1,919        |
| 1994 | -          | 586,912   | 76.6                      | 794     | -10,651       |
| 1995 | -          | 644,020   | 77.9                      | 167     | 5,252         |
| 1996 | -          | 737,722   | 77.7                      | 1,502   | -2,254        |
| 1997 | -          | 877,676   | 73.9                      | 1,430   | 1,218         |
| 1998 | -          | 822,564   | 75.9                      | 257     | 9,018         |
| 1999 | -          | 881,320   | 72.3                      | 282     | -1,876        |
| 2000 | -          | 899,809   | 76.8                      | 743     | -442          |
| 2001 | -          | 868,237   | 77.0                      | 770     | 1,998         |
| 2002 | -          | 800,488   | 73.3                      | 932     | -2,585        |
| 2003 | -          | 812,494   | 79.5                      | 326     | -21,284       |
| 2004 | -          | 830,674   | 78.1                      | 96      | 2,073         |
| 2005 | 407        | 851,327   | 81.8                      | 29      | 10,229        |
| 2006 | 333        | 892,296   | 82.2                      | 21      | -7,865        |
| 2007 | 236        | 873,674   | 80.7                      | 489     | 10,919        |
| 2008 | 155        | 866,659   | 86.3                      | 1,686   | 1,447         |
| 2009 | 321        | 837,008   | 84.5                      | 2,233   | 4,441         |
| 2010 | 380        | 874,666   | 81.8                      | 3,330   | -1,896        |
| 2011 | 285        | 928,736   | 87.1                      | 4,039   | -3,928        |
| 2012 | 263        | 949,058   | 85.1                      | 2,473   | -2,057        |
| 2013 | 290        | 918,634   | 86.0                      | 1,988   | -6,060        |
| 2014 | 198        | 933,736   | 84.0                      | 992     | -8,093        |
| 2015 | 115        | 1,030,315 | 82.3                      | 2,400   | -10,774       |
| 2016 | 104        | 1,084,066 | 85.9                      | 3,597   | -4,172        |
| 2017 | 217        | 1,124,938 | 81.7                      | 2,447   | -1,633        |
| 2018 | 189        | 1,126,403 | 73.5                      | 4,124   | -8,626        |
| 2019 | 155        | 1,075,973 | 70.2                      | 769     | 5,758         |
| 2020 | 103        | 987,422   | 69.0                      | 448     | 1,876         |
| 2021 | 36         | 973,734   | 59.8                      | 1,782   | 1,928         |
| 2022 | 17         | 1,047,685 | 67.4                      | 1,848   | -3,290        |
| 2023 | -          | 1,018,299 | 71.9                      | 2,515   | 4,688         |
|      | Production | Imports   | Dependence on Middle East | Exports | Stock changes |

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

2. 첨가물과 기타탄화수소

3. 국내 모든 정유사 정제능력의 합계

주: 원유, 정제원료, 첨가물, 기타탄화수소의 합계

자료: 한국석유공사-PEDSIS, 대한석유�협회

## 1-11. Crude Oil & Refinery Feedstocks Overview

Unit: Thousand Barrels

| 일차에너지공급   | 전환공정 <sup>1</sup>        |           |                     |                 | 정제능력 <sup>3</sup> |      |
|-----------|--------------------------|-----------|---------------------|-----------------|-------------------|------|
|           |                          | 원유        | 정제원료                | 기타 <sup>2</sup> |                   |      |
| 313,963   | 313,973                  | 312,045   | 1,928               | -               | 840               | 1990 |
| 398,839   | 398,877                  | 398,030   | 846                 | -               | 1,035             | 1991 |
| 510,338   | 510,450                  | 508,619   | 1,830               | -               | 1,675             | 1992 |
| 563,812   | 564,548                  | 558,537   | 6,011               | -               | 1,675             | 1993 |
| 575,467   | 576,085                  | 563,819   | 12,266              | -               | 1,700             | 1994 |
| 649,105   | 649,293                  | 631,266   | 18,027              | -               | 1,818             | 1995 |
| 733,966   | 734,715                  | 720,131   | 14,584              | -               | 2,438             | 1996 |
| 877,464   | 877,440                  | 871,986   | 5,311               | 144             | 2,438             | 1997 |
| 831,325   | 833,014                  | 825,895   | 7,115               | 3               | 2,438             | 1998 |
| 879,161   | 879,466                  | 873,299   | 6,317               | -150            | 2,438             | 1999 |
| 898,624   | 897,543                  | 892,224   | 6,031               | -712            | 2,438             | 2000 |
| 869,465   | 869,395                  | 860,166   | 10,004              | -775            | 2,438             | 2001 |
| 796,972   | 809,469                  | 787,290   | 22,901              | -722            | 2,438             | 2002 |
| 790,885   | 794,658                  | 783,518   | 11,343              | -202            | 2,438             | 2003 |
| 832,651   | 832,238                  | 826,967   | 4,904               | 367             | 2,735             | 2004 |
| 861,934   | 860,864                  | 852,544   | 7,603               | 717             | 2,735             | 2005 |
| 884,743   | 881,453                  | 878,417   | 2,230               | 806             | 2,735             | 2006 |
| 884,340   | 882,291                  | 882,409   | -925                | 807             | 2,765             | 2007 |
| 866,575   | 863,787                  | 865,680   | -3,270              | 1,377           | 2,785             | 2008 |
| 839,537   | 835,024                  | 838,419   | -4,406              | 1,012           | 2,835             | 2009 |
| 869,820   | 869,469                  | 872,263   | -4,157              | 1,363           | 2,845             | 2010 |
| 921,053   | 926,980                  | 924,447   | 1,399               | 1,134           | 2,934             | 2011 |
| 944,792   | 955,613                  | 946,046   | 8,668               | 899             | 2,949             | 2012 |
| 910,875   | 922,923                  | 909,539   | 12,673              | 711             | 2,949             | 2013 |
| 924,848   | 939,156                  | 918,377   | 21,601              | -822            | 3,009             | 2014 |
| 1,017,256 | 1,030,109                | 1,014,957 | 14,606              | 546             | 3,059             | 2015 |
| 1,076,400 | 1,085,610                | 1,072,234 | 12,643              | 733             | 3,064             | 2016 |
| 1,121,075 | 1,153,915                | 1,116,614 | 36,670              | 631             | 3,105             | 2017 |
| 1,113,842 | 1,175,276                | 1,106,317 | 68,740              | 219             | 3,204             | 2018 |
| 1,081,117 | 1,159,008                | 1,064,217 | 94,852              | -62             | 3,204             | 2019 |
| 988,952   | 1,089,285                | 980,379   | 108,939             | -33             | 3,204             | 2020 |
| 973,916   | 1,089,068                | 961,384   | 128,356             | -672            | 3,204             | 2021 |
| 1,042,564 | 1,155,425                | 1,026,102 | 130,311             | -988            | 3,204             | 2022 |
| 1,020,472 | 1,149,566                | 1,006,626 | 142,894             | 46              | 3,204             | 2023 |
| TPES      | Transformation processes | Crude oil | Refinery feedstocks | Others          | Refining capacity |      |

1. It is amount input to the process of refining input, gas manufacturing, etc. Negative means that the energy commodity was produced through this process.

2. Additives and other hydrocarbons

3. Sum of capacities of all refineries in South Korea

Note: Sum of crude oil, refinery feedstocks, additives components and other hydrocarbons

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

## 1-12. 석유제품 수급

단위: 천배럴

|      | 공급      |         |                       |               |          |                               |
|------|---------|---------|-----------------------|---------------|----------|-------------------------------|
|      | 수입      | 수출      | 국제병커링                 | 재고변화          | 일차에너지공급  | 정제생산                          |
| 1990 | 101,248 | 27,184  | 28,800                | -5,166        | 40,098   | 300,671                       |
| 1991 | 110,042 | 69,744  | 37,780                | -681          | 1,838    | 403,172                       |
| 1992 | 137,011 | 91,653  | 46,800                | -5,445        | -6,887   | 498,179                       |
| 1993 | 167,759 | 103,493 | 49,612                | -2,679        | 11,975   | 532,859                       |
| 1994 | 190,790 | 93,132  | 57,131                | -2,418        | 38,109   | 568,034                       |
| 1995 | 205,428 | 122,630 | 65,812                | -1,284        | 15,703   | 630,447                       |
| 1996 | 215,124 | 158,329 | 78,097                | -4,844        | -26,146  | 711,091                       |
| 1997 | 185,811 | 231,050 | 85,613                | -5,846        | -136,697 | 877,979                       |
| 1998 | 175,895 | 296,682 | 84,170                | 2,377         | -202,580 | 831,686                       |
| 1999 | 184,490 | 297,899 | 90,849                | 3,535         | -200,723 | 882,503                       |
| 2000 | 204,301 | 303,723 | 86,266                | -6,861        | -192,548 | 898,150                       |
| 2001 | 204,757 | 292,469 | 84,520                | 596           | -171,636 | 875,425                       |
| 2002 | 228,543 | 235,567 | 85,181                | 5,973         | -86,232  | 818,580                       |
| 2003 | 219,897 | 203,343 | 90,960                | 1,160         | -73,245  | 797,438                       |
| 2004 | 195,110 | 227,306 | 95,034                | -8,213        | -135,444 | 841,987                       |
| 2005 | 179,354 | 262,647 | 95,725                | 9,518         | -169,499 | 886,181                       |
| 2006 | 191,560 | 278,632 | 90,973                | -3,351        | -181,396 | 894,250                       |
| 2007 | 209,130 | 279,659 | 94,500                | 2,378         | -162,651 | 890,883                       |
| 2008 | 224,614 | 317,870 | 88,709                | 4,581         | -177,384 | 875,161                       |
| 2009 | 267,832 | 312,654 | 81,534                | 3,020         | -123,336 | 846,060                       |
| 2010 | 276,849 | 340,597 | 87,436                | -2,767        | -153,952 | 900,247                       |
| 2011 | 279,260 | 394,944 | 86,801                | 803           | -201,682 | 944,587                       |
| 2012 | 309,599 | 425,574 | 85,120                | -6,692        | -207,786 | 978,095                       |
| 2013 | 329,205 | 429,291 | 85,548                | -1,133        | -186,766 | 967,180                       |
| 2014 | 326,623 | 448,822 | 86,802                | -89           | -209,090 | 988,461                       |
| 2015 | 307,875 | 477,425 | 93,774                | -2,047        | -265,370 | 1,073,059                     |
| 2016 | 334,608 | 487,716 | 105,124               | 2,603         | -255,629 | 1,118,794                     |
| 2017 | 314,487 | 509,113 | 103,695               | -1,663        | -299,983 | 1,185,996                     |
| 2018 | 341,628 | 531,563 | 102,293               | -10,905       | -303,132 | 1,207,900                     |
| 2019 | 352,147 | 522,099 | 94,656                | 8,063         | -256,545 | 1,196,345                     |
| 2020 | 347,302 | 468,529 | 90,868                | 1,152         | -210,942 | 1,112,863                     |
| 2021 | 392,317 | 446,559 | 89,844                | 1,109         | -142,976 | 1,113,422                     |
| 2022 | 367,072 | 497,020 | 102,335               | 48            | -232,234 | 1,189,404                     |
| 2023 | 372,054 | 494,404 | 112,404               | -6,174        | -240,928 | 1,183,019                     |
|      | Imports | Exports | International Bunkers | Stock changes | TPES     | Petroleum Refining Production |
|      | Supply  |         |                       |               |          |                               |

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

## 1-12. Petroleum Products Overview

Unit: Thousand Barrels

| 소비                              |                            |         |             |           |                       |      |
|---------------------------------|----------------------------|---------|-------------|-----------|-----------------------|------|
| 발전 및 열생산<br>투입                  | 에너지산업<br>자체소비              | 최종소비    |             |           |                       |      |
|                                 |                            |         | 산업          | 수송        | 건물 <sup>1</sup>       |      |
| 29,720                          | 6,177                      | 298,791 | 136,088     | 87,424    | 75,279                | 1990 |
| 42,970                          | 6,730                      | 349,916 | 160,541     | 98,632    | 90,743                | 1991 |
| 53,339                          | 7,482                      | 420,540 | 205,167     | 111,881   | 103,492               | 1992 |
| 50,752                          | 9,799                      | 471,282 | 219,823     | 131,569   | 119,890               | 1993 |
| 57,628                          | 11,135                     | 533,451 | 262,171     | 146,564   | 124,716               | 1994 |
| 64,260                          | 13,730                     | 558,685 | 253,191     | 164,992   | 140,503               | 1995 |
| 65,623                          | 12,823                     | 593,951 | 267,891     | 176,718   | 149,341               | 1996 |
| 59,288                          | 39,540                     | 641,542 | 302,762     | 188,658   | 150,123               | 1997 |
| 24,192                          | 35,504                     | 565,805 | 307,893     | 149,551   | 108,361               | 1998 |
| 26,830                          | 37,094                     | 615,237 | 324,459     | 164,076   | 126,703               | 1999 |
| 41,243                          | 36,267                     | 630,544 | 334,302     | 183,621   | 112,622               | 2000 |
| 44,720                          | 32,992                     | 625,752 | 326,851     | 192,874   | 106,027               | 2001 |
| 39,790                          | 32,289                     | 646,205 | 338,473     | 205,299   | 102,433               | 2002 |
| 40,464                          | 31,979                     | 648,500 | 339,475     | 211,798   | 97,227                | 2003 |
| 34,169                          | 32,274                     | 642,486 | 345,018     | 212,454   | 85,014                | 2004 |
| 29,785                          | 32,920                     | 640,864 | 349,108     | 215,907   | 75,849                | 2005 |
| 30,707                          | 32,838                     | 650,245 | 357,382     | 223,716   | 69,147                | 2006 |
| 31,389                          | 34,043                     | 664,737 | 376,104     | 223,823   | 64,809                | 2007 |
| 18,150                          | 38,291                     | 641,487 | 361,752     | 218,940   | 60,795                | 2008 |
| 24,119                          | 36,935                     | 660,470 | 381,381     | 220,471   | 58,619                | 2009 |
| 22,370                          | 33,486                     | 681,595 | 397,694     | 223,353   | 60,548                | 2010 |
| 16,144                          | 36,233                     | 685,590 | 406,387     | 222,535   | 56,668                | 2011 |
| 23,699                          | 38,174                     | 699,879 | 419,861     | 227,457   | 52,561                | 2012 |
| 24,235                          | 38,481                     | 703,082 | 422,641     | 230,691   | 49,749                | 2013 |
| 12,062                          | 39,214                     | 709,141 | 428,460     | 232,807   | 47,873                | 2014 |
| 13,619                          | 43,816                     | 734,560 | 433,577     | 247,511   | 53,472                | 2015 |
| 20,557                          | 46,129                     | 782,758 | 469,195     | 257,307   | 56,256                | 2016 |
| 9,245                           | 40,552                     | 801,275 | 487,121     | 257,708   | 56,447                | 2017 |
| 9,706                           | 41,677                     | 788,210 | 478,445     | 256,066   | 53,700                | 2018 |
| 7,396                           | 41,759                     | 796,132 | 483,878     | 263,189   | 49,065                | 2019 |
| 5,420                           | 41,306                     | 752,269 | 462,169     | 245,380   | 44,720                | 2020 |
| 5,961                           | 38,312                     | 809,098 | 505,836     | 259,041   | 44,221                | 2021 |
| 6,706                           | 38,981                     | 798,903 | 496,939     | 258,008   | 43,955                | 2022 |
| 4,595                           | 39,205                     | 766,182 | 473,704     | 250,712   | 41,765                | 2023 |
| Power<br>Generatoin &<br>Others | Energy Industry<br>Own Use | TFC     | Industry    | Transport | Building <sup>1</sup> |      |
|                                 |                            |         | Consumption |           |                       |      |

1. Sum of residential, commercial and public sector

Source: Korea National Oil Corporation-PEDSIS



## 1-13. 신재생에너지 생산

단위: 천toe

|      | 합계     | 증가율(%)         | 태양열           | 태양광                | 바이오   | 바이오가스   | 매립지가스 | 바이오디젤      |
|------|--------|----------------|---------------|--------------------|-------|---------|-------|------------|
|      |        |                |               |                    |       |         |       |            |
| 1990 | 335    | 56.3           | -             | -                  | -     | -       | -     | -          |
| 1991 | 412    | 22.8           | -             | -                  | -     | -       | -     | -          |
| 1992 | 552    | 34.2           | 13            | 2                  | 57    | -       | -     | -          |
| 1993 | 648    | 17.3           | 14            | 0                  | 59    | -       | -     | -          |
| 1994 | 776    | 19.8           | 17            | 1                  | 57    | -       | -     | -          |
| 1995 | 907    | 16.8           | 22            | 1                  | 59    | 39      | -     | -          |
| 1996 | 1,160  | 27.9           | 32            | 1                  | 50    | 45      | -     | -          |
| 1997 | 1,419  | 22.3           | 46            | 1                  | 68    | 39      | -     | -          |
| 1998 | 1,713  | 20.7           | 44            | 1                  | 63    | 39      | -     | -          |
| 1999 | 1,897  | 10.8           | 42            | 1                  | 65    | 42      | -     | -          |
| 2000 | 2,127  | 12.1           | 42            | 1                  | 82    | 39      | -     | -          |
| 2001 | 2,453  | 15.3           | 37            | 2                  | 82    | 40      | -     | -          |
| 2002 | 2,917  | 18.9           | 35            | 2                  | 117   | 40      | 28    | 1          |
| 2003 | 4,437  | 52.1           | 33            | 2                  | 131   | 48      | 38    | 2          |
| 2004 | 4,582  | 3.3            | 36            | 2                  | 135   | 47      | 49    | 5          |
| 2005 | 4,879  | 6.5            | 35            | 4                  | 181   | 44      | 43    | 13         |
| 2006 | 5,225  | 7.1            | 33            | 8                  | 274   | 77      | 54    | 53         |
| 2007 | 5,609  | 7.3            | 29            | 15                 | 370   | 82      | 109   | 96         |
| 2008 | 5,858  | 4.5            | 28            | 61                 | 427   | 45      | 120   | 178        |
| 2009 | 6,086  | 3.9            | 31            | 122                | 580   | 51      | 128   | 254        |
| 2010 | 6,856  | 12.7           | 29            | 166                | 755   | 80      | 115   | 357        |
| 2011 | 7,584  | 10.6           | 27            | 198                | 963   | 91      | 124   | 336        |
| 2012 | 8,856  | 16.8           | 26            | 243                | 1,335 | 107     | 116   | 360        |
| 2013 | 9,894  | 11.7           | 28            | 359                | 1,558 | 139     | 97    | 369        |
| 2014 | 11,569 | 16.9           | 28            | 579                | 2,822 | 143     | 80    | 388        |
| 2015 | 13,351 | 15.4           | 28            | 907                | 2,766 | 109     | 76    | 441        |
| 2016 | 14,269 | 6.9            | 28            | 1,183              | 2,765 | 95      | 71    | 443        |
| 2017 | 16,605 | 16.4           | 28            | 1,673              | 3,599 | 98      | 77    | 428        |
| 2018 | 18,059 | 8.8            | 27            | 2,197              | 4,442 | 92      | 65    | 683        |
| 2019 | 16,525 | -8.5           | 27            | 3,062              | 4,162 | 96      | 76    | 700        |
| 2020 | 12,378 | -25.1          | 26            | 4,165              | 3,899 | 95      | 62    | 690        |
| 2021 | 14,000 | 13.1           | 26            | 5,317              | 4,264 | 114     | 81    | 597        |
| 2022 | 15,706 | 12.2           | 25            | 6,609              | 4,373 | 102     | 69    | 683        |
| 2023 | 17,058 | 8.6            | 24            | 7,149              | 5,030 | 118     | 61    | 692        |
|      | Total  | Growth rate(%) | Solar Thermal | Solar Photovoltaic | Bio   | Bio Gas | LFG   | Bio Diesel |

주 : 합계에는 해양 에너지 포함.

자료 : 한국에너지공단



## 1-13. New & Renewable Energy Production

Unit: Thousand toe

|            |                |          | 풍력   | 수력    | 연료전지       | 폐기물   | 지열         |      |
|------------|----------------|----------|------|-------|------------|-------|------------|------|
| 우드칩        | 성형탄            | 임산연료     |      |       |            |       |            |      |
| -          | -              | -        | -    | -     | -          | -     | -          | 1990 |
| -          | -              | -        | -    | -     | -          | -     | -          | 1991 |
| -          | -              | -        | 0    | 19    | -          | 461   | -          | 1992 |
| -          | -              | -        | 0    | 29    | -          | 546   | -          | 1993 |
| -          | -              | -        | 0    | 23    | -          | 679   | -          | 1994 |
| -          | 20             | -        | 0    | 20    | -          | 804   | -          | 1995 |
| -          | 5              | -        | 0    | 20    | -          | 1,056 | -          | 1996 |
| -          | 28             | -        | 0    | 22    | -          | 1,282 | -          | 1997 |
| -          | 24             | -        | 0    | 27    | -          | 1,577 | -          | 1998 |
| -          | 23             | -        | 1    | 27    | -          | 1,761 | -          | 1999 |
| -          | 43             | -        | 4    | 20    | -          | 1,978 | -          | 2000 |
| -          | 42             | -        | 3    | 21    | -          | 2,308 | -          | 2001 |
| -          | 48             | -        | 4    | 28    | -          | 2,733 | 0          | 2002 |
| -          | 43             | -        | 6    | 1,226 | -          | 3,039 | 0          | 2003 |
| -          | 34             | -        | 12   | 1,082 | -          | 3,313 | 1          | 2004 |
| -          | 32             | 49       | 32   | 919   | 1          | 3,706 | 3          | 2005 |
| 6          | 34             | 50       | 60   | 867   | 2          | 3,975 | 6          | 2006 |
| 6          | 35             | 43       | 81   | 781   | 2          | 4,319 | 11         | 2007 |
| 13         | 29             | 41       | 94   | 660   | 4          | 4,569 | 16         | 2008 |
| 20         | 24             | 49       | 147  | 607   | 19         | 4,558 | 22         | 2009 |
| 132        | 23             | 23       | 176  | 792   | 42         | 4,862 | 33         | 2010 |
| 163        | 25             | 24       | 186  | 965   | 63         | 5,122 | 48         | 2011 |
| 165        | 24             | 56       | 193  | 815   | 83         | 5,999 | 65         | 2012 |
| 168        | 24             | 50       | 242  | 892   | 122        | 6,502 | 87         | 2013 |
| 191        | 25             | 5        | 242  | 581   | 199        | 6,905 | 108        | 2014 |
| 373        | 16             | 45       | 283  | 454   | 230        | 8,436 | 135        | 2015 |
| 223        | 15             | 124      | 355  | 603   | 242        | 8,743 | 162        | 2016 |
| 122        | 16             | 648      | 462  | 601   | 313        | 9,359 | 184        | 2017 |
| 140        | 17             | 674      | 525  | 719   | 379        | 9,084 | 205        | 2018 |
| 227        | 17             | 131      | 571  | 595   | 492        | 7,049 | 225        | 2019 |
| 237        | 11             | 143      | 671  | 826   | 756        | 1,166 | 241        | 2020 |
| 231        | 11             | 97       | 678  | 651   | 1,023      | 1,198 | 256        | 2021 |
| 171        | 3              | 158      | 718  | 755   | 1,154      | 1,257 | 280        | 2022 |
| 183        | 4              | 210      | 723  | 792   | 1,334      | 1,393 | 280        | 2023 |
| Wood Chips | Wood Briquette | Firewood | Wind | Hydro | Fuel Cells | Waste | Geothermal |      |
|            |                |          |      |       |            |       |            |      |

Note : Total includes ocean energy.

Source : Korea Energy Agency

## 1-14. 전력 공급

|      | 발전설비<br>(MW)                     |       |                    |                   |                        |         |                    |                                    |
|------|----------------------------------|-------|--------------------|-------------------|------------------------|---------|--------------------|------------------------------------|
|      |                                  | 수력    | 기력 <sup>1</sup>    | 복합화력              | 내연력                    | 원자력     | 집단                 | 대체 <sup>2</sup>                    |
| 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 | 21,749             | 13,086            | 246                    | 15,716  | 1,296              | 83                                 |
| 2004 | 59,961                           | 3,879 | 23,311             | 14,313            | 252                    | 16,716  | 1,382              | 108                                |
| 2005 | 62,258                           | 3,883 | 23,811             | 15,015            | 297                    | 17,716  | 1,382              | 156                                |
| 2006 | 65,514                           | 5,485 | 24,391             | 16,004            | 297                    | 17,716  | 1,382              | 240                                |
| 2007 | 68,268                           | 5,492 | 26,491             | 16,511            | 303                    | 17,716  | 1,382              | 374                                |
| 2008 | 72,491                           | 5,505 | 29,731             | 17,044            | 307                    | 17,716  | 1,460              | 728                                |
| 2009 | 73,470                           | 5,515 | 29,571             | 17,575            | 347                    | 17,716  | 1,610              | 1,136                              |
| 2010 | 76,078                           | 5,525 | 29,571             | 19,100            | 351                    | 17,716  | 2,067              | 1,749                              |
| 2011 | 79,342                           | 6,418 | 29,571             | 19,799            | 355                    | 18,716  | 2,623              | 1,859                              |
| 2012 | 81,806                           | 6,446 | 29,371             | 19,799            | 367                    | 20,716  | 2,768              | 2,338                              |
| 2013 | 86,969                           | 6,454 | 29,371             | 23,473            | 330                    | 20,716  | 3,106              | 3,519                              |
| 2014 | 93,216                           | 6,467 | 29,611             | 27,296            | 330                    | 20,716  | 4,323              | 4,474                              |
| 2015 | 97,649                           | 6,471 | 29,611             | 28,512            | 330                    | 21,716  | 5,360              | 5,649                              |
| 2016 | 105,866                          | 6,485 | 33,746             | 28,512            | 329                    | 23,116  | 6,200              | 7,477                              |
| 2017 | 116,908                          | 6,489 | 38,265             | 32,416            | 339                    | 22,529  | 7,682              | 9,187                              |
| 2018 | 119,092                          | 6,490 | 38,358             | 31,224            | 339                    | 21,850  | 9,208              | 11,623                             |
| 2019 | 125,338                          | 6,508 | 38,101             | 32,846            | 341                    | 23,250  | 9,191              | 15,101                             |
| 2020 | 129,191                          | 6,506 | 37,951             | 33,013            | 176                    | 23,250  | 9,191              | 19,105                             |
| 2021 | 134,020                          | 6,541 | 38,429             | 33,013            | 177                    | 23,250  | 9,229              | 23,381                             |
| 2022 | 138,195                          | 6,513 | 38,269             | 33,013            | 137                    | 24,650  | 8,919              | 26,694                             |
| 2023 | 143,381                          | 6,517 | 38,269             | 34,038            | 137                    | 24,650  | 9,821              | 29,949                             |
|      | Generating<br>Facilities<br>(MW) | Hydro | Steam <sup>1</sup> | Combined<br>Cycle | Internal<br>Combustion | Nuclear | District<br>Energy | Alternative<br>Energy <sup>2</sup> |

1. 석탄화력, 석유화력, LNG, 한전구입량 포함.

2. 신재생 및 기타(중류타펠열, 여열회수, 천연가스압터빈, 부생가스)

주 1) 상용자가 제외

2) 2001.4.2. 발전부문 분리

자료 : 한국전력공사(한국전력통계)

## 1-14. Electricity Supply

| 발전량<br>(GWh)           | 발전원별 발전량 |                 |                |                     |         |                                          | 연도   |
|------------------------|----------|-----------------|----------------|---------------------|---------|------------------------------------------|------|
|                        | 수력       | 기력 <sup>1</sup> | 복합화력           | 내연력                 | 원자력     | 집단 & 대체 <sup>2</sup>                     |      |
| 107,670                | 6,361    | 47,374          | 619            | 429                 | 52,887  | -                                        | 1990 |
| 118,619                | 5,051    | 56,000          | 785            | 472                 | 56,311  | -                                        | 1991 |
| 130,963                | 4,863    | 63,532          | 5,464          | 574                 | 56,530  | -                                        | 1992 |
| 144,437                | 6,006    | 70,465          | 9,188          | 640                 | 58,138  | -                                        | 1993 |
| 164,993                | 4,098    | 85,408          | 16,047         | 789                 | 58,651  | -                                        | 1994 |
| 184,661                | 5,478    | 90,808          | 20,521         | 825                 | 67,029  | -                                        | 1995 |
| 205,494                | 5,201    | 98,654          | 26,943         | 772                 | 73,924  | -                                        | 1996 |
| 224,445                | 5,404    | 106,813         | 34,424         | 718                 | 77,086  | -                                        | 1997 |
| 215,300                | 6,099    | 92,432          | 26,505         | 575                 | 89,689  | -                                        | 1998 |
| 239,325                | 6,066    | 101,138         | 28,675         | 382                 | 103,064 | -                                        | 1999 |
| 266,400                | 5,610    | 124,669         | 26,863         | 294                 | 108,964 | -                                        | 2000 |
| 285,224                | 4,151    | 139,582         | 29,033         | 325                 | 112,133 | -                                        | 2001 |
| 306,474                | 5,311    | 143,370         | 38,337         | 353                 | 119,103 | -                                        | 2002 |
| 322,452                | 6,887    | 145,148         | 40,375         | 370                 | 129,672 | -                                        | 2003 |
| 342,148                | 5,861    | 145,810         | 55,452         | 407                 | 130,715 | 3,903                                    | 2004 |
| 364,639                | 5,189    | 151,477         | 57,457         | 575                 | 146,779 | 3,163                                    | 2005 |
| 381,181                | 5,219    | 156,290         | 67,138         | 677                 | 148,749 | 3,108                                    | 2006 |
| 403,125                | 5,042    | 174,245         | 76,405         | 578                 | 142,937 | 3,916                                    | 2007 |
| 422,355                | 5,563    | 184,385         | 74,519         | 503                 | 150,958 | 6,428                                    | 2008 |
| 433,604                | 5,641    | 207,391         | 64,486         | 697                 | 147,771 | 7,618                                    | 2009 |
| 474,660                | 6,472    | 212,291         | 94,012         | 731                 | 148,596 | 12,558                                   | 2010 |
| 496,893                | 7,831    | 212,018         | 101,479        | 821                 | 154,723 | 20,021                                   | 2011 |
| 509,574                | 7,652    | 218,430         | 110,882        | 752                 | 150,327 | 21,531                                   | 2012 |
| 517,148                | 8,394    | 220,266         | 124,400        | 741                 | 138,784 | 24,563                                   | 2013 |
| 521,971                | 7,820    | 211,734         | 111,711        | 656                 | 156,407 | 33,644                                   | 2014 |
| 528,091                | 5,796    | 216,955         | 100,598        | 643                 | 164,762 | 39,337                                   | 2015 |
| 540,441                | 6,634    | 222,844         | 96,922         | 573                 | 161,995 | 51,473                                   | 2016 |
| 553,530                | 6,995    | 237,636         | 99,619         | 513                 | 148,427 | 60,340                                   | 2017 |
| 570,647                | 7,270    | 238,297         | 116,836        | 528                 | 133,505 | 74,210                                   | 2018 |
| 563,040                | 6,247    | 222,065         | 110,289        | 579                 | 145,910 | 77,951                                   | 2019 |
| 552,162                | 7,148    | 191,102         | 111,759        | 405                 | 160,184 | 81,564                                   | 2020 |
| 576,809                | 6,737    | 192,599         | 130,358        | 491                 | 158,015 | 88,609                                   | 2021 |
| 594,400                | 7,256    | 188,928         | 123,996        | 570                 | 176,054 | 97,597                                   | 2022 |
| 588,047                | 7,500    | 181,274         | 118,801        | 390                 | 180,494 | 99,588                                   | 2023 |
| Power Generation (GWh) | Hydro    | Steam           | Combined Cycle | Internal Combustion | Nuclear | District Alternative Energy <sup>2</sup> |      |

1. Includes coal mix, oil thermal, LNG and the purchased power.

2. Renewables and Others(waste heat in distillation tower, waste heat recovery, natural gas pressure turbine and by-product gas)

Notes 1) Excludes Non-utility in Common use

2) On Apr.2, 2001, KEPCO's power generation division was divided into 6 generation subsidiary companies and a Power Exchange.

Source : Korea Electric Power Corporation(Statistics of electric power in Korea)



## 1-15. 부문별 전력 소비

단위: GWh

|      | 합계      | 농림어업                | 광업     | 제조업           | 석유·화학                      | 비금속          |
|------|---------|---------------------|--------|---------------|----------------------------|--------------|
|      |         |                     |        |               |                            |              |
| 1990 | 92,985  | 1,458               | 1,011  | 55,381        | 9,511                      | 5,633        |
| 1991 | 102,729 | 1,778               | 1,005  | 60,755        | 11,172                     | 6,544        |
| 1992 | 113,385 | 2,157               | 923    | 65,567        | 12,601                     | 7,160        |
| 1993 | 125,656 | 2,220               | 868    | 71,360        | 14,160                     | 7,936        |
| 1994 | 144,158 | 2,918               | 868    | 79,971        | 15,342                     | 8,752        |
| 1995 | 160,843 | 3,370               | 1,020  | 89,618        | 16,463                     | 9,325        |
| 1996 | 179,358 | 3,857               | 1,049  | 99,148        | 18,248                     | 9,589        |
| 1997 | 197,126 | 4,176               | 1,000  | 108,218       | 20,232                     | 9,913        |
| 1998 | 190,538 | 4,024               | 973    | 100,898       | 20,066                     | 7,738        |
| 1999 | 210,879 | 4,572               | 952    | 111,999       | 21,533                     | 8,354        |
| 2000 | 235,730 | 5,306               | 1,003  | 122,146       | 23,054                     | 8,981        |
| 2001 | 253,739 | 5,985               | 1,074  | 124,739       | 23,795                     | 9,306        |
| 2002 | 274,234 | 6,156               | 1,155  | 132,925       | 24,995                     | 9,923        |
| 2003 | 288,327 | 5,944               | 1,205  | 137,966       | 25,870                     | 10,286       |
| 2004 | 306,429 | 6,511               | 1,269  | 144,891       | 27,181                     | 10,119       |
| 2005 | 326,419 | 7,007               | 1,317  | 152,495       | 27,954                     | 9,829        |
| 2006 | 342,173 | 7,296               | 1,393  | 159,426       | 28,324                     | 10,319       |
| 2007 | 361,726 | 7,795               | 1,484  | 170,093       | 29,624                     | 11,105       |
| 2008 | 377,519 | 8,389               | 1,446  | 177,244       | 31,389                     | 11,408       |
| 2009 | 386,450 | 9,145               | 1,350  | 179,225       | 31,978                     | 11,230       |
| 2010 | 425,518 | 10,042              | 1,683  | 202,804       | 34,496                     | 11,620       |
| 2011 | 445,637 | 10,575              | 1,928  | 220,268       | 38,630                     | 11,822       |
| 2012 | 456,554 | 12,074              | 1,616  | 225,407       | 40,383                     | 10,928       |
| 2013 | 464,451 | 13,062              | 1,478  | 231,904       | 41,612                     | 11,236       |
| 2014 | 466,317 | 13,556              | 1,571  | 238,216       | 43,615                     | 11,643       |
| 2015 | 472,446 | 14,645              | 1,631  | 238,148       | 44,326                     | 12,023       |
| 2016 | 484,795 | 15,397              | 1,755  | 240,580       | 46,099                     | 12,575       |
| 2017 | 495,141 | 15,979              | 1,746  | 246,340       | 47,710                     | 12,612       |
| 2018 | 513,242 | 17,126              | 1,478  | 252,193       | 49,256                     | 12,147       |
| 2019 | 507,302 | 17,305              | 1,493  | 247,775       | 49,012                     | 11,724       |
| 2020 | 496,890 | 17,037              | 1,552  | 236,161       | 49,520                     | 11,154       |
| 2021 | 520,326 | 18,496              | 1,807  | 249,257       | 53,405                     | 11,700       |
| 2022 | 535,364 | 19,286              | 1,759  | 253,021       | 53,422                     | 11,798       |
| 2023 | 534,678 | 18,777              | 1,709  | 247,976       | 53,391                     | 11,438       |
|      | Total   | Agriculture-Fishery | Mining | Manufacturing | Chemical and petrochemical | Non-Metallic |

## 1-15. Electricity Consumption by End-Use Sector

Unit: GWh

|            |         | 수송        | 가정          | 상업·공공             |      |
|------------|---------|-----------|-------------|-------------------|------|
| 1차급속       | 기타      |           |             |                   |      |
| 10,064     | 30,173  | 1,012     | 17,735      | 16,388            | 1990 |
| 10,440     | 32,598  | 1,091     | 19,482      | 18,618            | 1991 |
| 10,767     | 35,039  | 1,175     | 21,796      | 21,768            | 1992 |
| 12,596     | 36,668  | 1,258     | 23,916      | 26,034            | 1993 |
| 13,552     | 42,326  | 1,444     | 26,554      | 32,403            | 1994 |
| 16,101     | 47,729  | 1,802     | 28,303      | 36,729            | 1995 |
| 18,088     | 53,224  | 1,682     | 30,642      | 42,979            | 1996 |
| 20,936     | 57,138  | 1,761     | 32,515      | 49,455            | 1997 |
| 20,147     | 52,947  | 1,580     | 32,913      | 50,150            | 1998 |
| 19,004     | 63,108  | 1,730     | 34,581      | 57,045            | 1999 |
| 19,997     | 70,114  | 2,037     | 37,102      | 68,137            | 2000 |
| 19,550     | 72,088  | 2,257     | 39,211      | 80,472            | 2001 |
| 20,461     | 77,546  | 2,271     | 42,278      | 89,448            | 2002 |
| 20,902     | 80,908  | 2,331     | 44,572      | 96,309            | 2003 |
| 21,384     | 86,206  | 2,475     | 48,615      | 102,668           | 2004 |
| 23,013     | 91,699  | 2,601     | 50,873      | 112,126           | 2005 |
| 24,380     | 96,403  | 2,534     | 52,522      | 119,002           | 2006 |
| 27,241     | 102,124 | 2,433     | 54,174      | 125,747           | 2007 |
| 31,733     | 102,714 | 2,277     | 56,228      | 131,935           | 2008 |
| 28,329     | 107,688 | 2,174     | 57,595      | 136,961           | 2009 |
| 34,494     | 122,195 | 2,191     | 61,194      | 147,604           | 2010 |
| 38,392     | 131,425 | 2,246     | 61,564      | 149,055           | 2011 |
| 37,571     | 136,525 | 2,250     | 63,536      | 151,671           | 2012 |
| 38,033     | 141,022 | 2,168     | 63,970      | 151,869           | 2013 |
| 40,367     | 142,591 | 1,999     | 62,675      | 148,299           | 2014 |
| 36,998     | 144,801 | 2,217     | 63,794      | 152,011           | 2015 |
| 35,159     | 146,747 | 2,689     | 66,173      | 158,202           | 2016 |
| 35,524     | 150,493 | 2,864     | 66,517      | 161,693           | 2017 |
| 34,852     | 155,939 | 3,080     | 70,687      | 168,677           | 2018 |
| 32,617     | 154,422 | 3,156     | 70,455      | 167,118           | 2019 |
| 26,452     | 149,034 | 3,315     | 74,074      | 164,752           | 2020 |
| 25,906     | 158,246 | 3,701     | 77,558      | 169,506           | 2021 |
| 25,902     | 161,900 | 4,053     | 78,558      | 178,687           | 2022 |
| 24,288     | 158,860 | 4,720     | 79,886      | 181,609           | 2023 |
| Iron/Steel | Others  | Transport | Residential | Commercial·Public |      |
|            |         |           |             |                   |      |



## 1-16. 열에너지(지역난방) 수급

## Heat Overview

단위: 천toe

Unit: Thousand toe

|      | 전환공정 <sup>1</sup>        | 열병합        |                  | 최종소비  | 가정          | 상업·공공               |
|------|--------------------------|------------|------------------|-------|-------------|---------------------|
|      |                          | 열병합        | 열전용              |       |             |                     |
| 1990 | 76                       | 79         | -                | -     | -           | -                   |
| 1991 | 107                      | 106        | 3                | -     | -           | -                   |
| 1992 | 151                      | 154        | -                | -     | -           | -                   |
| 1993 | 290                      | 293        | -                | -     | -           | -                   |
| 1994 | 480                      | 427        | 56               | -     | -           | -                   |
| 1995 | 1,172                    | 1,073      | 102              | 637   | 603         | 34                  |
| 1996 | 1,418                    | 1,415      | 6                | 809   | 761         | 48                  |
| 1997 | 1,542                    | 1,391      | 154              | 928   | 871         | 57                  |
| 1998 | 1,515                    | 1,389      | 136              | 884   | 829         | 55                  |
| 1999 | 1,905                    | 1,614      | 298              | 1,033 | 960         | 72                  |
| 2000 | 1,267                    | 1,118      | 158              | 1,208 | 1,113       | 95                  |
| 2001 | 1,277                    | 1,131      | 159              | 1,217 | 1,102       | 115                 |
| 2002 | 1,340                    | 1,186      | 167              | 1,224 | 1,118       | 106                 |
| 2003 | 1,419                    | 1,110      | 330              | 1,395 | 1,151       | 244                 |
| 2004 | 1,447                    | 1,163      | 304              | 1,449 | 1,283       | 166                 |
| 2005 | 2,287                    | 1,885      | 414              | 1,652 | 1,449       | 202                 |
| 2006 | 2,104                    | 1,724      | 396              | 1,549 | 1,367       | 182                 |
| 2007 | 2,118                    | 1,651      | 481              | 1,576 | 1,391       | 185                 |
| 2008 | 2,237                    | 1,846      | 429              | 1,669 | 1,472       | 198                 |
| 2009 | 2,239                    | 1,944      | 343              | 1,715 | 1,525       | 189                 |
| 2010 | 2,001                    | 1,878      | 139              | 1,953 | 1,742       | 211                 |
| 2011 | 2,411                    | 2,329      | 216              | 1,954 | 1,743       | 211                 |
| 2012 | 2,688                    | 2,559      | 253              | 2,085 | 1,832       | 252                 |
| 2013 | 2,346                    | 2,260      | 199              | 2,049 | 1,797       | 252                 |
| 2014 | 2,376                    | 2,301      | 143              | 1,938 | 1,720       | 218                 |
| 2015 | 2,325                    | 2,255      | 194              | 1,905 | 1,663       | 242                 |
| 2016 | 2,507                    | 2,382      | 243              | 2,075 | 1,771       | 304                 |
| 2017 | 2,717                    | 2,691      | 154              | 2,300 | 1,955       | 345                 |
| 2018 | 2,891                    | 2,797      | 163              | 2,535 | 2,125       | 410                 |
| 2019 | 3,095                    | 2,920      | 241              | 2,471 | 2,080       | 391                 |
| 2020 | 3,210                    | 3,065      | 218              | 2,592 | 2,200       | 393                 |
| 2021 | 3,022                    | 2,865      | 225              | 2,701 | 2,265       | 435                 |
| 2022 | 3,156                    | 2,887      | 338              | 2,946 | 2,432       | 514                 |
| 2023 | 2,815                    | 2,440      | 448              | 2,809 | 2,281       | 528                 |
|      | Transformation processes | CHP plants | Heat-only plants | TFC   | Residential | Commercial & Public |

1. 발전전용 포함

1. Includes electricity only plants

## 1-17. 우리나라의 에너지 위상

## Korea's Energy Ranks

|             | 일차에너지¹<br>(백만toe)   | 석유소비²<br>(백만톤)                           | 석유정제능력²<br>(천배럴/일)                      | 전력소비¹<br>(TWh)                       | 1인당 일차에너지¹<br>(toe/인)            | 1인당 전력소비¹<br>(kWh/인)                             |
|-------------|---------------------|------------------------------------------|-----------------------------------------|--------------------------------------|----------------------------------|--------------------------------------------------|
| 1           | 중국                  | 미국                                       | 중국                                      | 중국                                   | 카타르                              | 아이슬란드                                            |
|             | China               | United States                            | China                                   | China                                | Qatar                            | Iceland                                          |
|             | 3,811               | 816                                      | 18,484                                  | 8,678                                | 16.45                            | 52,920                                           |
| 2           | 미국                  | 중국                                       | 미국                                      | 미국                                   | 아이슬란드                            | 바레인                                              |
|             | United States       | China                                    | United States                           | United States                        | Iceland                          | Bahrain                                          |
|             | 2,173               | 769                                      | 18,429                                  | 4,332                                | 16.37                            | 23,502                                           |
| 3           | 인도                  | 인도                                       | 러시아                                     | 인도                                   | 바레인                              | 노르웨이                                             |
|             | India               | India                                    | Russia                                  | India                                | Bahrain                          | Norway                                           |
|             | 1,015               | 249                                      | 6,781                                   | 1,532                                | 11.09                            | 23,374                                           |
| 4           | 러시아                 | 사우디아라비아                                  | 인도                                      | 러시아                                  | 트리니다드토바고                         | 카타르                                              |
|             | Russia              | Saudi Arabia                             | India                                   | Russia                               | Trinidad and Tobago              | Qatar                                            |
|             | 808                 | 172                                      | 5,085                                   | 1,036                                | 9.85                             | 19,110                                           |
| 5           | 일본                  | 러시아                                      | <b>한국</b>                               | 일본                                   | 쿠웨이트                             | 쿠웨이트                                             |
|             | Japan               | Russia                                   | <b>Korea</b>                            | Japan                                | Kuwait                           | Kuwait                                           |
|             | 392                 | 165                                      | <b>3,363</b>                            | 976                                  | 9.82                             | 17,815                                           |
| 6           | 브라질                 | 일본                                       | 사우디아라비아                                 | <b>한국</b>                            | 브루나이                             | 아랍에미리트                                           |
|             | Brazil              | Japan                                    | Saudi Arabia                            | <b>Korea</b>                         | Brunei                           | United Arab Emirates                             |
|             | 301                 | 151                                      | 3,289                                   | <b>594</b>                           | 9.67                             | 15,674                                           |
| 7           | 캐나다                 | <b>한국</b>                                | 일본                                      | 브라질                                  | 아랍에미리트                           | 핀란드                                              |
|             | Canada              | <b>Korea</b>                             | Japan                                   | Brazil                               | United Arab Emirates             | Finland                                          |
|             | 297                 | <b>121</b>                               | 3,069                                   | 586                                  | 8.90                             | 14,747                                           |
| 8           | 이란                  | 브라질                                      | 이란                                      | 캐나다                                  | 캐나다                              | 캐나다                                              |
|             | Iran                | Brazil                                   | Iran                                    | Canada                               | Canada                           | Canada                                           |
|             | 292                 | 118                                      | 2,604                                   | 568                                  | 7.63                             | 14,591                                           |
| 9           | <b>한국</b>           | 캐나다                                      | 브라질                                     | 독일                                   | 지브롤터                             | 미국                                               |
|             | <b>Korea</b>        | Canada                                   | Brazil                                  | Germany                              | Gibraltar                        | United States                                    |
|             | <b>280</b>          | 100                                      | 2,290                                   | 527                                  | 7.43                             | 12,986                                           |
| 10          | 독일                  | 독일                                       | 독일                                      | 프랑스                                  | <b>한국(17위)</b>                   | <b>한국(13위)</b>                                   |
|             | Germany             | Germany                                  | Germany                                 | France                               | <b>Korea</b>                     | <b>Korea</b>                                     |
|             | 271                 | 92                                       | 2,076                                   | 454                                  | <b>5.42</b>                      | <b>11,503</b>                                    |
| 세계<br>World | 14,860              | 4,531                                    | 103,498                                 | 27,231                               | 1.87                             | 3,497                                            |
|             | TPES¹<br>(Mil. toe) | Petroleum<br>Consumption²<br>(Mil. tons) | Oil Refinery²<br>(Thou.<br>Barrels/Day) | Electricity<br>Consumption¹<br>(TWh) | TPES per Capita¹<br>(toe/Capita) | Elec. Consumption<br>per Capita¹<br>(kWh/Capita) |

1. IEA World Energy Statistics (2022년 기준)

2. Statistical Review of World Energy, BP 2024 (2023년 기준)

## 1-18. 에너지 소비자 가격

|      | 무연탄 <sup>1</sup><br>(원/톤)            | 연탄 <sup>2</sup><br>(원/장)             | 휘발유 <sup>3</sup>      | 등유 <sup>3</sup>       | 경유 <sup>3</sup>        | 중질중유     | 프로판 <sup>4</sup><br>(원/kg)       |
|------|--------------------------------------|--------------------------------------|-----------------------|-----------------------|------------------------|----------|----------------------------------|
|      |                                      |                                      | (원/ℓ)                 |                       |                        |          |                                  |
| 1990 | 40,740                               | 185                                  | 384                   | 191                   | 182                    | 95       | 415                              |
| 1991 | 40,740                               | 185                                  | 481                   | 227                   | 182                    | 95       | 430                              |
| 1992 | 40,740                               | 185                                  | 556                   | 236                   | 199                    | 97       | 449                              |
| 1993 | 40,740                               | 185                                  | 610                   | 254                   | 214                    | 102      | 460                              |
| 1994 | 40,740                               | 185                                  | 611                   | 271                   | 227                    | 106      | 475                              |
| 1995 | 40,740                               | 185                                  | 598                   | 262                   | 239                    | 129      | 490                              |
| 1996 | 40,740                               | 185                                  | 676                   | 315                   | 301                    | 157      | 510                              |
| 1997 | 42,849                               | 185                                  | 839                   | 374                   | 376                    | 196      | 599                              |
| 1998 | 48,827                               | 185                                  | 1,123                 | 524                   | 553                    | 292      | 815                              |
| 1999 | 55,455                               | 185                                  | 1,192                 | 491                   | 522                    | 242      | 678                              |
| 2000 | 62,210                               | 185                                  | 1,248                 | 560                   | 613                    | 304      | 809                              |
| 2001 | 62,210                               | 185                                  | 1,280                 | 580                   | 645                    | 320      | 919                              |
| 2002 | 62,474                               | 185                                  | 1,269                 | 554                   | 678                    | 323      | 887                              |
| 2003 | 65,598                               | 199                                  | 1,295                 | 639                   | 772                    | 339      | 980                              |
| 2004 | 69,025                               | 202                                  | 1,365                 | 752                   | 908                    | 367      | 1,050                            |
| 2005 | 76,197                               | 202                                  | 1,432                 | 871                   | 1,080                  | 420      | 1,132                            |
| 2006 | 81,110                               | 202                                  | 1,492                 | 932                   | 1,228                  | 483      | 1,243                            |
| 2007 | 89,220                               | 230                                  | 1,526                 | 932                   | 1,273                  | 527      | 1,331                            |
| 2008 | 103,841                              | 283                                  | 1,692                 | 1,239                 | 1,614                  | 757      | 1,790                            |
| 2009 | 116,809                              | 319                                  | 1,601                 | 976                   | 1,397                  | 719      | 1,577                            |
| 2010 | 123,680                              | 391                                  | 1,710                 | 1,076                 | 1,503                  | 772      | 1,813                            |
| 2011 | 131,456                              | 391                                  | 1,929                 | 1,321                 | 1,746                  | 987      | 2,034                            |
| 2012 | 142,230                              | 391                                  | 1,986                 | 1,394                 | 1,806                  | 1,089    | 2,106                            |
| 2013 | 142,230                              | 391                                  | 1,924                 | 1,367                 | 1,730                  | 935      | 2,085                            |
| 2014 | 142,230                              | 391                                  | 1,827                 | 1,297                 | 1,637                  | 886      | 2,113                            |
| 2015 | 142,230                              | 391                                  | 1,510                 | 947                   | 1,300                  | 604      | 1,801                            |
| 2016 | 145,106                              | 410                                  | 1,403                 | 784                   | 1,183                  | 524      | 1,689                            |
| 2017 | 154,720                              | 472                                  | 1,491                 | 853                   | 1,283                  | 620      | 1,834                            |
| 2018 | 167,164                              | 561                                  | 1,581                 | 942                   | 1,392                  | 724      | 1,920                            |
| 2019 | 179,380                              | 657                                  | 1,472                 | 962                   | 1,341                  | 734      | 1,870                            |
| 2020 | 179,380                              | 657                                  | 1,381                 | 854                   | 1,190                  | 570      | 1,851                            |
| 2021 | 179,380                              | 657                                  | 1,591                 | 947                   | 1,391                  | 732      | 2,092                            |
| 2022 | 179,380                              | 657                                  | 1,813                 | 1,474                 | 1,843                  | 1,082    | 2,478                            |
| 2023 | 179,380                              | 657                                  | 1,643                 | 1,403                 | 1,558                  | 924      | 2,373                            |
|      | Anthracite <sup>1</sup><br>(KRW/Ton) | Briquette <sup>2</sup><br>(KRW/each) | Gasoline <sup>3</sup> | Kerosene <sup>3</sup> | Diese Oil <sup>3</sup> | Bunker-C | Propane <sup>4</sup><br>(KRW/kg) |
|      |                                      |                                      | (KRW/ℓ)               |                       |                        |          |                                  |

1. 일일평균가격(4,400~4,599 kcal/kg기준)

2. 서울시 3.6kg 연탄가격 기준

3. 주유소 판매가격

4. 일반용 프로판의 판매소 판매가격.

5. 충전소 판매가격(단, 1999년 이전의 자동차용은 도시가스를 부탄의 정유사 판매가격이며 단위는 원/kg 임.)

6. 도시가스 소비자 가격은 서울시 기준이며, 2013년부터는 열량당 가격임.

자료: 대한석탄협회, 한국석유공사, 한국도시가스협회 '도시가스사업편람', 한국전력공사 '한국전력통계'



## 1-18. Consumer Prices of Energy

| 부탄 <sup>5</sup>                        |                       | 도시가스 <sup>6</sup>                                       |            |            | 전력                       |            |                    |              |  |
|----------------------------------------|-----------------------|---------------------------------------------------------|------------|------------|--------------------------|------------|--------------------|--------------|--|
| 일반용<br>(원/kg)                          | 자동차용<br>(원/ℓ)         | 가정용                                                     | 산업용        | 업무용        | 가정용                      | 산업용        | 일반용                | 농업용          |  |
|                                        |                       |                                                         |            |            |                          |            |                    |              |  |
| -                                      | -                     | 285                                                     | 207        | 214        | 69                       | 44         | 77                 | 34           |  |
| -                                      | -                     | 285                                                     | 199        | 211        | 73                       | 44         | 82                 | 34           |  |
| -                                      | -                     | 290                                                     | 194        | 221        | 81                       | 46         | 85                 | 34           |  |
| -                                      | -                     | 295                                                     | 194        | 230        | 82                       | 46         | 85                 | 36           |  |
| -                                      | -                     | 296                                                     | 197        | 231        | 86                       | 46         | 87                 | 35           |  |
| -                                      | -                     | 301                                                     | 197        | 237        | 86                       | 47         | 89                 | 36           |  |
| -                                      | -                     | 302                                                     | 197        | 242        | 89                       | 48         | 90                 | 37           |  |
| -                                      | -                     | 326                                                     | 207        | 266        | 92                       | 50         | 93                 | 39           |  |
| -                                      | -                     | 432                                                     | 283        | 378        | 101                      | 55         | 104                | 44           |  |
| -                                      | -                     | 404                                                     | 248        | 357        | 103                      | 55         | 102                | 44           |  |
| -                                      | -                     | 464                                                     | 294        | 417        | 107                      | 58         | 106                | 43           |  |
| 1,139                                  | 440                   | 498                                                     | 369        | 496        | 112                      | 62         | 108                | 44           |  |
| 1,108                                  | 458                   | 423                                                     | 323        | 440        | 110                      | 60         | 104                | 43           |  |
| 1,193                                  | 567                   | 452                                                     | 357        | 469        | 108                      | 60         | 101                | 43           |  |
| 1,235                                  | 674                   | 474                                                     | 380        | 491        | 110                      | 60         | 97                 | 42           |  |
| 1,305                                  | 723                   | 486                                                     | 396        | 503        | 111                      | 60         | 95                 | 42           |  |
| 1,392                                  | 748                   | 569                                                     | 486        | 586        | 114                      | 62         | 98                 | 43           |  |
| 1,454                                  | 774                   | 599                                                     | 509        | 616        | 114                      | 65         | 98                 | 42           |  |
| 1,898                                  | 1,009                 | 643                                                     | 550        | 662        | 115                      | 66         | 95                 | 42           |  |
| 1,885                                  | 829                   | 690                                                     | 629        | 744        | 114                      | 74         | 99                 | 42           |  |
| 2,072                                  | 952                   | 717                                                     | 662        | 785        | 120                      | 77         | 99                 | 43           |  |
| 2,277                                  | 1,076                 | 784                                                     | 724        | 838        | 120                      | 81         | 102                | 43           |  |
| 2,352                                  | 1,102                 | 848                                                     | 793        | 891        | 124                      | 93         | 112                | 43           |  |
| 2,338                                  | 1,071                 | 21                                                      | 19         | 22         | 127                      | 101        | 122                | 46           |  |
| 2,369                                  | 1,051                 | 22                                                      | 21         | 23         | 125                      | 107        | 130                | 47           |  |
| 2,034                                  | 806                   | 19                                                      | 16         | 19         | 124                      | 107        | 130                | 47           |  |
| 1,914                                  | 734                   | 15                                                      | 13         | 16         | 122                      | 107        | 130                | 47           |  |
| 2,075                                  | 826                   | 16                                                      | 13         | 16         | 109                      | 107        | 130                | 48           |  |
| 2,177                                  | 875                   | 15                                                      | 13         | 15         | 107                      | 106        | 130                | 47           |  |
| 2,140                                  | 806                   | 16                                                      | 14         | 16         | 105                      | 107        | 130                | 48           |  |
| 2,148                                  | 791                   | 15                                                      | 13         | 15         | 108                      | 107        | 132                | 48           |  |
| 2,415                                  | 932                   | 14                                                      | 14         | 17         | 109                      | 105        | 128                | 46           |  |
| 2,855                                  | 1,082                 | 17                                                      | 26         | 29         | 121                      | 119        | 139                | 57           |  |
| 2,774                                  | 957                   | 20                                                      | 23         | 26         | 150                      | 154        | 169                | 75           |  |
| Residential-<br>Commercial<br>(KRW/kg) | Automobile<br>(KRW/ℓ) | Residential                                             | Industrial | Commercial | Residential              | Industrial | Public-<br>Service | Agricultural |  |
|                                        |                       | City gas <sup>6</sup><br>(KRW/Nm <sup>3</sup> , KRW/MJ) |            |            | Electricity<br>(KRW/kWh) |            |                    |              |  |
| Butane <sup>5</sup>                    |                       |                                                         |            |            |                          |            |                    |              |  |

1. Daily average price(4,400~4,599kcal/kg)

2. Based on 3.6kg-briquette price in Seoul

3. Gas station sales prices

4. Sales prices at general-purpose LPG stores

5. Gas station prices(Through 1999, refiner prices of butane for city gas and based on kilogram(kg).)

6. Based on city gas prices in Seoul. Beginning in 2013, prices are based on megajoule(MJ)

Source : Korea Coal Association, Korea National Oil Corporation, Korea City Gas Association, Korea Electric Power Corporation



## 1-19. 세계 에너지 수요 전망

단위: 엑사줄

|              | 2010 | 2022 | 2023 | 2030 | 2035 |
|--------------|------|------|------|------|------|
| 일차에너지공급      | 536  | 629  | 642  | 676  | 682  |
| 신재생          | 43   | 74   | 78   | 120  | 153  |
| 바이오매스        | 21   | 19   | 19   | 15   | 13   |
| 원자력          | 30   | 29   | 30   | 36   | 41   |
| 천연가스         | 109  | 136  | 137  | 144  | 142  |
| CCUS 적용 천연가스 | 0    | 1    | 1    | 1    | 2    |
| OIL          | 173  | 187  | 192  | 195  | 189  |
| 석탄           | 151  | 169  | 172  | 151  | 126  |
| CCUS 적용 석탄   | -    | 0    | 0    | 0    | 0    |
| 최종에너지        | 377  | 437  | 445  | 485  | 499  |
| 전력           | 64   | 88   | 91   | 114  | 129  |
| 액체연료         | 153  | 173  | 176  | 187  | 183  |
| 기체연료         | 57   | 72   | 71   | 80   | 82   |
| 고체연료         | 90   | 87   | 88   | 84   | 82   |
| 열            | 12   | 15   | 15   | 18   | 18   |
|              | 2010 | 2022 | 2023 | 2030 | 2035 |

자료: IEA, 「World Energy Outlook 2024」

## 1-19. World Energy Outlook

Unit: EJ(Exa Joule)

| 2040 | 2050 | 2023년 이후연평균 증가율 (%) |      |                            |
|------|------|---------------------|------|----------------------------|
|      |      | 2030                | 2050 |                            |
| 691  | 722  | 0.7                 | 0.4  | Total energy supply        |
| 185  | 241  | 6.4                 | 4.3  | Renewables                 |
| 12   | 10   | -3.8                | -2.5 | Traditional use of biomass |
| 45   | 49   | 2.5                 | 1.8  | Nuclear                    |
| 140  | 139  | 0.7                 | 0.0  | Unabated natural gas       |
| 2    | 3    | 10.6                | 6.3  | Natural gas with CCUS      |
| 182  | 176  | 0.2                 | -0.3 | Oil                        |
| 109  | 89   | -1.8                | -2.4 | Unabated coal              |
| 0    | 1    | 46.1                | 14.7 | Coal with CCUS             |
| 509  | 533  | 1.3                 | 0.7  | Total final consumption    |
| 143  | 168  | 3.3                 | 2.3  | Electricity                |
| 179  | 177  | 0.8                 | 0.0  | Liquid fuels               |
| 85   | 89   | 1.6                 | 0.8  | Gaseous fuels              |
| 80   | 75   | -0.7                | -0.6 | Solid fuels                |
| 18   | 18   | 1.9                 | 0.5  | Heat                       |
| 2040 | 2050 | 2030                | 2050 |                            |
|      |      | CAAGR(%) 2023 to    |      |                            |

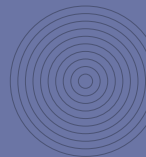
Source: IEA, 「World Energy Outlook 2024」



# 02

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## 에너지 밸런스 Energy Balances



## 02 에너지 밸런스

2-1. 1990년

2-2. 2000년

2-3. 2010년

2-4. 2013년

2-5. 2014년

2-6. 2015년

2-7. 2016년

2-8. 2017년

2-9. 2018년

2-10. 2019년

2-11. 2020년

2-12. 2021년

2-13. 2022년

2-14. 2023년

## 02 Energy in Korea



2-1. 1990

2-2. 2000

2-3. 2010

2-4. 2013

2-5. 2014

2-6. 2015

2-7. 2016

2-8. 2017

2-9. 2018

2-10. 2019

2-11. 2020

2-12. 2021

2-13. 2022

2-14. 2023

## 2-1. 1990년

|          | 석탄 및<br>석탄제품<br>(천톤) | 천연가스<br>(천톤) | 도시가스<br>(백만㎥) | 원유 및 정제원료<br>(천배럴)              | 석유제품<br>(천배럴)   | 원자력<br>(GWh) | 수력<br>(GWh) | 신재생 <sup>1</sup><br>(천toe) | 전기<br>(GWh) | 열<br>(천toe) | 합계<br>(천toe) |
|----------|----------------------|--------------|---------------|---------------------------------|-----------------|--------------|-------------|----------------------------|-------------|-------------|--------------|
| 국내생산     | 17,217               | -            | -             | -                               | -               | 52,887       | 6,283       | 16                         | -           | 3           | 22,560       |
| 수입       | 24,119               | 2,237        | -             | 310,494                         | 101,248         | -            | -           | -                          | -           | -           | 74,609       |
| 수출       | -8                   | -            | -             | -                               | -27,184         | -            | -           | -                          | -           | -           | -4,002       |
| 국제병커링    | -                    | -            | -             | -                               | -28,800         | -            | -           | -                          | -           | -           | -4,308       |
| 재고변화     | 2,036                | 38           | -             | 3,469                           | -5,166          | -            | -           | -                          | -           | -           | 822          |
| 일차에너지공급  | 43,364               | 2,275        | -             | 313,963                         | 40,098          | 52,887       | 6,283       | 16                         | -           | 3           | 89,680       |
| 제품이동     | -36                  | -            | -             | 14                              | -19             | -            | -           | -                          | -           | -           | 3            |
| 통계오차     | 1,268                | 41           | 256           | -4                              | -6,062          | -            | -           | -                          | -           | -           | 91           |
| 일차에너지소비  | 44,631               | 2,317        | 256           | 313,973                         | 34,017          | 52,887       | 6,283       | 16                         | -           | 3           | 89,775       |
| 전환공정     | -7,737               | -2,313       | 708           | -313,973                        | 270,951         | -52,887      | -6,283      | -                          | 107,605     | 76          | -16,534      |
| 발전전용     | -7,737               | -1,741       | -             | -                               | -29,720         | -52,887      | -6,283      | -                          | 107,605     | -3          | -17,152      |
| 열병합      | -                    | -            | -             | -                               | -               | -            | -           | -                          | -           | 79          | 79           |
| 열전용      | -                    | -            | -             | -                               | -0              | -            | -           | -                          | -           | -           | -0           |
| 석유제품생산   | -                    | -            | -             | -313,973                        | 300,671         | -            | -           | -                          | -           | -           | 539          |
| 가스제조     | -                    | -572         | 708           | -                               | -               | -            | -           | -                          | -           | -           | -            |
| 석탄합성가스제조 | -                    | -            | -             | -                               | -               | -            | -           | -                          | -           | -           | -            |
| 기타전환     | -                    | -            | -             | -                               | -               | -            | -           | -                          | -           | -           | -            |
| 전환자제소비   | -                    | -            | -             | -0                              | -6,177          | -            | -           | -                          | -9,000      | -           | -1,529       |
| 손실       | -                    | -            | -             | -                               | -               | -            | -           | -                          | -5,619      | -79         | -563         |
| 최종소비     | 36,894               | 4            | 963           | -                               | 298,791         | -            | -           | 16                         | 92,985      | -           | 71,149       |
| 산업       | 18,334               | 4            | 223           | -                               | 136,088         | -            | -           | -                          | 57,850      | -           | 36,798       |
| 농림어업     | 522                  | -            | 0             | -                               | 12,701          | -            | -           | -                          | 1,458       | -           | 2,212        |
| 광업       | 6                    | -            | -             | -                               | 974             | -            | -           | -                          | 1,011       | -           | 237          |
| 제조업      | 17,767               | 4            | 223           | -                               | 113,624         | -            | -           | -                          | 55,381      | -           | 32,968       |
| 식품및담배    | 23                   | -            | 10            | -                               | 6,895           | -            | -           | -                          | 3,540       | -           | 1,394        |
| 섬유및가죽    | 494                  | -            | 12            | -                               | 10,291          | -            | -           | -                          | 9,505       | -           | 2,768        |
| 목재및무제품   | -                    | -            | 0             | -                               | 461             | -            | -           | -                          | 623         | -           | 126          |
| 제지및인쇄    | 113                  | -            | 2             | -                               | 5,395           | -            | -           | -                          | 3,877       | -           | 1,257        |
| 화학및석유화학  | 262                  | -            | 12            | -                               | 61,567          | -            | -           | -                          | 9,511       | -           | 9,334        |
| 비금속광물    | 4,030                | -            | 35            | -                               | 8,150           | -            | -           | -                          | 5,633       | -           | 4,416        |
| 철강       | 12,594               | -            | 61            | -                               | 6,174           | -            | -           | -                          | 10,064      | -           | 10,192       |
| 비철금속     | -                    | -            | -             | -                               | 1,306           | -            | -           | -                          | 13          | -           | 188          |
| 기계류      | -                    | -            | 81            | -                               | 4,134           | -            | -           | -                          | 12,091      | -           | 1,737        |
| 수송장비     | -                    | -            | -             | -                               | 1,711           | -            | -           | -                          | -           | -           | 254          |
| 기타제조     | 242                  | 4            | 9             | -                               | 7,449           | -            | -           | -                          | 525         | -           | 1,281        |
| 기타에너지    | 9                    | -            | -             | -                               | 90              | -            | -           | -                          | -           | -           | 20           |
| 건설업      | 39                   | -            | -             | -                               | 8,789           | -            | -           | -                          | -           | -           | 1,381        |
| 수송       | -                    | -            | -             | -                               | 87,424          | -            | -           | -                          | 1,012       | -           | 12,140       |
| 철도       | -                    | -            | -             | -                               | 2,082           | -            | -           | -                          | 1,012       | -           | 392          |
| 도로       | -                    | -            | -             | -                               | 81,682          | -            | -           | -                          | -           | -           | 11,201       |
| 국내해운     | -                    | -            | -             | -                               | 3,211           | -            | -           | -                          | -           | -           | 479          |
| 국내항공     | -                    | -            | -             | -                               | 449             | -            | -           | -                          | -           | -           | 68           |
| 가정       | 17,343               | -            | 433           | -                               | 8,285           | -            | -           | 6                          | 17,735      | -           | 11,262       |
| 상업 공공    | 1,218                | -            | 307           | -                               | 66,994          | -            | -           | 11                         | 16,388      | -           | 10,948       |
|          | Coal                 | Natural Gas  | City Gas      | Crude oil & refinery feedstocks | Petroleum       | Nuclear      | Hydro       | Renewables                 | Electric    | Heat        | Total        |
|          | (Thou. Tons)         | (Thou. Tons) | (Mil. Mtr)    | (Thou. Barrels)                 | (Thou. Barrels) | (GWh)        | (GWh)       | (Thou. toe)                | (GWh)       | (Thou. toe) | (Thou. toe)  |

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원



| 석탄 및<br>석탄제품 | 천연<br>가스    | 도시<br>가스 | 원유 및<br>정제원료                    | 석유제품      | 원자력     | 수력     | 신재생 <sup>1</sup> | 전기       | 열    | 합계      |                                  |
|--------------|-------------|----------|---------------------------------|-----------|---------|--------|------------------|----------|------|---------|----------------------------------|
| (천toe)       |             |          |                                 |           |         |        |                  |          |      |         |                                  |
| 7,748        | -           | -        | -                               | -         | 13,222  | 1,571  | 16               | -        | 3    | 22,560  | Production                       |
| 15,832       | 2,909       | -        | 42,465                          | 13,403    | -       | -      | -                | -        | -    | 74,609  | Imports                          |
| -5           | -           | -        | -                               | -3,997    | -       | -      | -                | -        | -    | -4,002  | Exports                          |
| -            | -           | -        | -                               | -4,308    | -       | -      | -                | -        | -    | -4,308  | International Bunkers            |
| 948          | 49          | -        | 463                             | -639      | -       | -      | -                | -        | -    | 822     | Stock changes                    |
| 24,523       | 2,958       | -        | 42,928                          | 4,459     | 13,222  | 1,571  | 16               | -        | 3    | 89,680  | Total primary energy supply      |
| -            | -           | -        | 3                               | 1         | -       | -      | -                | -        | -    | 3       | Transfers                        |
| 694          | 54          | 268      | -1                              | -924      | -       | -      | -                | -        | -    | 91      | Statistical differences          |
| 25,217       | 3,012       | 268      | 42,930                          | 3,536     | 13,222  | 1,571  | 16               | -        | 3    | 89,775  | Total primary energy consumption |
| -4,688       | -3,007      | 743      | -42,930                         | 38,811    | -13,222 | -1,571 | -                | 9,254    | 76   | -16,534 | Transformation processes         |
| -4,688       | -2,264      | -        | -                               | -4,658    | -13,222 | -1,571 | -                | 9,254    | -3   | -17,152 | Electricity-only plants          |
| -            | -           | -        | -                               | -         | -       | -      | -                | -        | 79   | 79      | CHP plants                       |
| -            | -           | -        | -                               | -0        | -       | -      | -                | -        | -    | -0      | Heat-only plants                 |
| -            | -           | -        | -42,930                         | 43,469    | -       | -      | -                | -        | -    | 539     | Petroleum Products               |
| -            | -743        | 743      | -                               | -         | -       | -      | -                | -        | -    | -       | Gas manufacturing                |
| -            | -           | -        | -                               | -         | -       | -      | -                | -        | -    | -       | Coal-to-Gas plants               |
| -            | -           | -        | -                               | -         | -       | -      | -                | -        | -    | -       | Non-specified Transformation     |
| -            | -           | -        | -0                              | -755      | -       | -      | -                | -774     | -    | -1,529  | Transformation Own Use           |
| -            | -           | -        | -                               | -         | -       | -      | -                | -483     | -79  | -563    | Losses                           |
| 20,528       | 5           | 1,012    | -                               | 41,591    | -       | -      | 16               | 7,997    | -    | 71,149  | Total final consumption          |
| 11,942       | 5           | 235      | -                               | 19,641    | -       | -      | -                | 4,975    | -    | 36,798  | Industry                         |
| 237          | -           | 0        | -                               | 1,849     | -       | -      | -                | 125      | -    | 2,212   | Agriculture/forestry/Fishing     |
| 3            | -           | -        | -                               | 148       | -       | -      | -                | 87       | -    | 237     | Mining and quarrying             |
| 11,690       | 5           | 235      | -                               | 16,275    | -       | -      | -                | 4,763    | -    | 32,968  | Manufacturing                    |
| 15           | -           | 11       | -                               | 1,064     | -       | -      | -                | 304      | -    | 1,394   | Food and tobacco                 |
| 326          | -           | 13       | -                               | 1,612     | -       | -      | -                | 817      | -    | 2,768   | Textile and leather              |
| -            | -           | 0        | -                               | 72        | -       | -      | -                | 54       | -    | 126     | Wood and wood products           |
| 113          | -           | 2        | -                               | 5,395     | -       | -      | -                | 3,877    | -    | 1,257   | Paper, pulp and print            |
| 173          | -           | 13       | -                               | 8,331     | -       | -      | -                | 818      | -    | 9,334   | Chemical and petrochemical       |
| 2,660        | -           | 37       | -                               | 1,235     | -       | -      | -                | 484      | -    | 4,416   | Non-metallic minerals            |
| 8,311        | -           | 64       | -                               | 952       | -       | -      | -                | 865      | -    | 10,192  | Iron and steel                   |
| -            | -           | -        | -                               | 187       | -       | -      | -                | 1        | -    | 188     | Non-ferrous metals               |
| -            | -           | 85       | -                               | 612       | -       | -      | -                | 1,040    | -    | 1,737   | Machinery                        |
| -            | -           | -        | -                               | 254       | -       | -      | -                | -        | -    | 254     | Transport Equipment              |
| 126          | 5           | 9        | -                               | 1,096     | -       | -      | -                | 45       | -    | 1,281   | Other manufacturing              |
| 6            | -           | -        | -                               | 14        | -       | -      | -                | -        | -    | 20      | Other energy                     |
| 12           | -           | -        | -                               | 1,369     | -       | -      | -                | -        | -    | 1,381   | Construction                     |
| -            | -           | -        | -                               | 12,053    | -       | -      | -                | 87       | -    | 12,140  | Transport                        |
| -            | -           | -        | -                               | 305       | -       | -      | -                | 87       | -    | 392     | Rail                             |
| -            | -           | -        | -                               | 11,201    | -       | -      | -                | -        | -    | 11,201  | Road                             |
| -            | -           | -        | -                               | 479       | -       | -      | -                | -        | -    | 479     | Domestic navigation              |
| -            | -           | -        | -                               | 68        | -       | -      | -                | -        | -    | 68      | Domestic aviation                |
| 8,023        | -           | 454      | -                               | 1,254     | -       | -      | 6                | 1,525    | -    | 11,262  | Residential                      |
| 563          | -           | 323      | -                               | 8,642     | -       | -      | 11               | 1,409    | -    | 10,948  | Commercial Public                |
| Coal         | Natural Gas | City Gas | Crude oil & refinery feedstocks | Petroleum | Nuclear | Hydro  | Renewables       | Electric | Heat | Total   |                                  |
| (Thou. toe)  |             |          |                                 |           |         |        |                  |          |      |         |                                  |

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

## 2-2. 2000년

|          | 석탄 및<br>석탄제품<br>(천톤) | 천연가스<br>(천톤) | 도시가스<br>(백만㎥) | 원유 및 정제원료<br>(천배럴)              | 석유제품<br>(천배럴)   | 원자력<br>(GWh) | 수력<br>(GWh) | 신재생 <sup>1)</sup><br>(천toe) | 전기<br>(GWh) | 열<br>(천toe) | 합계<br>(천toe) |
|----------|----------------------|--------------|---------------|---------------------------------|-----------------|--------------|-------------|-----------------------------|-------------|-------------|--------------|
| 국내생산     | 4,150                | -            | -             | -                               | -               | 108,964      | 4,010       | 1,135                       | -           | 10          | 31,255       |
| 수입       | 64,170               | 15,239       | -             | 899,809                         | 204,301         | -            | -           | -                           | -           | -           | 210,191      |
| 수출       | -5                   | -            | -             | -743                            | -303,723        | -            | -           | -                           | -           | -           | -43,507      |
| 국제병커링    | -                    | -            | -             | -86,266                         | -               | -            | -           | -                           | -           | -           | -13,097      |
| 재고변화     | -1,019               | -52          | -             | -442                            | -6,861          | -            | -           | -                           | -           | -           | -1,764       |
| 일차에너지공급  | 67,296               | 15,187       | -             | 898,624                         | -192,548        | 108,964      | 4,010       | 1,135                       | -           | 10          | 183,079      |
| 제품이동     | -                    | -            | -             | 891                             | -878            | -            | -           | -                           | -           | -           | 48           |
| 통계오차     | 1,586                | -633         | 383           | -1,971                          | 3,330           | -            | -           | -                           | -           | -           | 837          |
| 일차에너지소비  | 68,883               | 14,554       | 383           | 897,544                         | -190,096        | 108,964      | 4,010       | 1,135                       | -           | 10          | 183,965      |
| 전환공정     | -36,155              | -14,057      | 11,531        | -897,543                        | 856,907         | -108,964     | -4,010      | -2                          | 264,838     | 1,267       | -35,612      |
| 발전전용     | -36,155              | -2,575       | -             | -                               | -32,247         | -108,964     | -4,010      | -2                          | 264,838     | -10         | -36,869      |
| 열병합      | -                    | -1,954       | -266          | -                               | -6,281          | -            | -           | -                           | -           | 1,118       | -2,689       |
| 열전용      | -                    | -            | -             | -                               | -2,715          | -            | -           | -                           | -           | 158         | -268         |
| 석유제품생산   | -                    | -            | -             | -897,543                        | 898,150         | -            | -           | -                           | -           | -           | 4,213        |
| 가스제조     | -                    | -9,528       | 11,797        | -                               | -               | -            | -           | -                           | -           | -           | -            |
| 석탄합성가스제조 | -                    | -            | -             | -                               | -               | -            | -           | -                           | -           | -           | -6,260       |
| 기타전환     | -                    | -            | -             | -                               | -               | -            | -           | -                           | -           | -           | -1,136       |
| 전환자제소비   | -                    | -337         | -             | -0                              | -36,267         | -            | -           | -                           | -16,690     | -           | -6,260       |
| 손실       | -                    | -            | -             | -                               | -               | -            | -           | -                           | -12,418     | -68         | -1,136       |
| 최종소비     | 32,728               | 160          | 11,914        | -                               | 630,544         | -            | -           | 1,132                       | 235,730     | 1,208       | 140,956      |
| 산업       | 31,681               | 160          | 3,151         | -                               | 334,302         | -            | -           | 624                         | 128,455     | -           | 80,962       |
| 농림어업     | 161                  | -            | 12            | -                               | 24,905          | -            | -           | -                           | 5,306       | -           | 4,138        |
| 광업       | 1                    | -            | 2             | -                               | 362             | -            | -           | -                           | 1,003       | -           | 143          |
| 제조업      | 31,518               | 160          | 3,137         | -                               | 295,387         | -            | -           | 624                         | 122,146     | -           | 74,537       |
| 식품및담배    | 63                   | -            | 168           | -                               | 5,790           | -            | -           | -                           | 6,149       | -           | 1,635        |
| 섬유및가죽    | 1,831                | -            | 407           | -                               | 10,526          | -            | -           | -                           | 15,497      | -           | 4,617        |
| 목재및무제품   | -                    | -            | 2             | -                               | 539             | -            | -           | 59                          | 1,137       | -           | 242          |
| 제지및인쇄    | 1                    | -            | 63            | -                               | 7,790           | -            | -           | -                           | 8,843       | -           | 2,043        |
| 화학및석유화학  | 2,175                | -            | 304           | -                               | 230,727         | -            | -           | 168                         | 23,054      | -           | 33,470       |
| 비금속광물    | 5,308                | -            | 240           | -                               | 7,665           | -            | -           | 397                         | 8,981       | -           | 6,060        |
| 철강       | 20,673               | 160          | 616           | -                               | 6,171           | -            | -           | -                           | 19,997      | -           | 17,094       |
| 비철금속     | 257                  | -            | -             | -                               | 1,349           | -            | -           | -                           | 3,794       | -           | 675          |
| 기계류      | -                    | -            | 687           | -                               | 4,055           | -            | -           | -                           | 23,624      | -           | 3,330        |
| 수송장비     | -                    | -            | -             | -                               | 6,386           | -            | -           | -                           | 9,373       | -           | 1,778        |
| 기타제조     | 1,211                | 0            | 650           | -                               | 10,339          | -            | -           | 0                           | 1,349       | -           | 2,953        |
| 기타에너지    | -                    | -            | -             | -                               | 4,049           | -            | -           | -                           | 348         | -           | 640          |
| 건설업      | 2                    | -            | 0             | -                               | 13,648          | -            | -           | -                           | -           | -           | 2,145        |
| 수송       | -                    | -            | -             | -                               | 183,621         | -            | -           | -                           | 2,037       | -           | 25,007       |
| 철도       | -                    | -            | -             | -                               | 2,307           | -            | -           | -                           | 2,037       | -           | 513          |
| 도로       | -                    | -            | -             | -                               | 175,081         | -            | -           | -                           | -           | -           | 23,549       |
| 국내해운     | -                    | -            | -             | -                               | 6,125           | -            | -           | -                           | -           | -           | 930          |
| 국내항공     | -                    | -            | -             | -                               | 108             | -            | -           | -                           | -           | -           | 15           |
| 가정       | 1,000                | -            | 7,003         | -                               | 29,545          | -            | -           | 78                          | 37,102      | 1,113       | 16,284       |
| 상업 공공    | 47                   | -            | 1,761         | -                               | 83,077          | -            | -           | 430                         | 68,137      | 95          | 18,703       |
|          | Coal                 | Natural Gas  | City Gas      | Crude oil & refinery feedstocks | Petroleum       | Nuclear      | Hydro       | Renewables                  | Electric    | Heat        | Total        |
|          | (Thou. Tons)         | (Thou. Tons) | (Mil. Ndt)    | (Thou. Barrels)                 | (Thou. Barrels) | (GWh)        | (GWh)       | (Thou. toe)                 | (GWh)       | (Thou. toe) | (Thou. toe)  |

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

| 석탄 및<br>석탄제품 | 천연<br>가스    | 도시<br>가스 | 원유 및<br>정제원료                    | 석유제품      | 원자력     | 수력     | 신재생 <sup>1</sup> | 전기       | 열     | 합계      |                                  |
|--------------|-------------|----------|---------------------------------|-----------|---------|--------|------------------|----------|-------|---------|----------------------------------|
| (천toe)       |             |          |                                 |           |         |        |                  |          |       |         |                                  |
| 1,868        | -           | -        | -                               | -         | 27,241  | 1,002  | 1,135            | -        | 10    | 31,255  | Production                       |
| 41,943       | 19,811      | -        | 123,049                         | 25,388    | -       | -      | -                | -        | -     | 210,191 | Imports                          |
| -3           | -           | -        | -129                            | -43,374   | -       | -      | -                | -        | -     | -43,507 | Exports                          |
| -            | -           | -        | -                               | -13,097   | -       | -      | -                | -        | -     | -13,097 | International Bunkers            |
| -664         | -68         | -        | -62                             | -970      | -       | -      | -                | -        | -     | -1,764  | Stock changes                    |
| 43,143       | 19,743      | -        | 122,858                         | -32,053   | 27,241  | 1,002  | 1,135            | -        | 10    | 183,079 | Total primary energy supply      |
| -            | -           | -        | 166                             | -117      | -       | -      | -                | -        | -     | 48      | Transfers                        |
| 1,061        | -823        | 402      | -302                            | 499       | -       | -      | -                | -        | -     | 837     | Statistical differences          |
| 44,204       | 18,920      | 402      | 122,721                         | -31,671   | 27,241  | 1,002  | 1,135            | -        | 10    | 183,965 | Total primary energy consumption |
| -22,988      | -18,274     | 12,107   | -122,721                        | 120,467   | -27,241 | -1,002 | -2               | 22,776   | 1,267 | -35,612 | Transformation processes         |
| -22,988      | -3,347      | -        | -                               | -5,054    | -27,241 | -1,002 | -2               | 22,776   | -10   | -36,869 | Electricity-only plants          |
| -            | -2,541      | -279     | -                               | -987      | -       | -      | -                | -        | 1,118 | -2,689  | CHP plants                       |
| -            | -           | -        | -                               | -426      | -       | -      | -                | -        | 158   | -268    | Heat-only plants                 |
| -            | -           | -        | -122,721                        | 126,935   | -       | -      | -                | -        | -     | 4,213   | Petroleum Products               |
| -            | -12,387     | 12,387   | -                               | -         | -       | -      | -                | -        | -     | -       | Gas manufacturing                |
| -            | -           | -        | -                               | -         | -       | -      | -                | -        | -     | -       | Coal-to-Gas plants               |
| -            | -           | -        | -                               | -         | -       | -      | -                | -        | -     | -       | Non-specified Transformation     |
| -            | -438        | -        | -0                              | -4,387    | -       | -      | -                | -1,435   | -     | -6,260  | Transformation Own Use           |
| -            | -           | -        | -                               | -         | -       | -      | -                | -1,068   | -68   | -1,136  | Losses                           |
| 21,217       | 207         | 12,510   | -                               | 84,409    | -       | -      | 1,132            | 20,273   | 1,208 | 140,956 | Total final consumption          |
| 20,746       | 207         | 3,308    | -                               | 45,030    | -       | -      | 624              | 11,047   | -     | 80,962  | Industry                         |
| 69           | -           | 13       | -                               | 3,600     | -       | -      | -                | 456      | -     | 4,138   | Agriculture/forestry/Fishing     |
| 0            | -           | 2        | -                               | 54        | -       | -      | -                | 86       | -     | 143     | Mining and quarrying             |
| 20,676       | 207         | 3,294    | -                               | 39,231    | -       | -      | 624              | 10,505   | -     | 74,537  | Manufacturing                    |
| 41           | -           | 176      | -                               | 889       | -       | -      | -                | 529      | -     | 1,635   | Food and tobacco                 |
| 1,208        | -           | 428      | -                               | 1,648     | -       | -      | -                | 1,333    | -     | 4,617   | Textile and leather              |
| -            | -           | 2        | -                               | 83        | -       | -      | 59               | 98       | -     | 242     | Wood and wood products           |
| 1            | -           | 63       | -                               | 7,790     | -       | -      | -                | 8,843    | -     | 2,043   | Paper, pulp and print            |
| 1,436        | -           | 319      | -                               | 29,565    | -       | -      | 168              | 1,983    | -     | 33,470  | Chemical and petrochemical       |
| 3,503        | -           | 252      | -                               | 1,136     | -       | -      | 397              | 772      | -     | 6,060   | Non-metallic minerals            |
| 13,597       | 207         | 647      | -                               | 923       | -       | -      | -                | 1,720    | -     | 17,094  | Iron and steel                   |
| 164          | -           | -        | -                               | 185       | -       | -      | -                | 326      | -     | 675     | Non-ferrous metals               |
| -            | -           | 721      | -                               | 577       | -       | -      | -                | 2,032    | -     | 3,330   | Machinery                        |
| -            | -           | -        | -                               | 972       | -       | -      | -                | 806      | -     | 1,778   | Transport Equipment              |
| 726          | 0           | 682      | -                               | 1,428     | -       | -      | 0                | 116      | -     | 2,953   | Other manufacturing              |
| -            | -           | -        | -                               | 610       | -       | -      | -                | 30       | -     | 640     | Other energy                     |
| 1            | -           | 0        | -                               | 2,145     | -       | -      | -                | -        | -     | 2,145   | Construction                     |
| -            | -           | -        | -                               | 24,831    | -       | -      | -                | 175      | -     | 25,007  | Transport                        |
| -            | -           | -        | -                               | 337       | -       | -      | -                | 175      | -     | 513     | Rail                             |
| -            | -           | -        | -                               | 23,549    | -       | -      | -                | -        | -     | 23,549  | Road                             |
| -            | -           | -        | -                               | 930       | -       | -      | -                | -        | -     | 930     | Domestic navigation              |
| -            | -           | -        | -                               | 15        | -       | -      | -                | -        | -     | 15      | Domestic aviation                |
| 450          | -           | 7,353    | -                               | 4,099     | -       | -      | 78               | 3,191    | 1,113 | 16,284  | Residential                      |
| 21           | -           | 1,849    | -                               | 10,448    | -       | -      | 430              | 5,860    | 95    | 18,703  | Commercial Public                |
| Coal         | Natural Gas | City Gas | Crude oil & refinery feedstocks | Petroleum | Nuclear | Hydro  | Renewables       | Electric | Heat  | Total   |                                  |
| (Thou. toe)  |             |          |                                 |           |         |        |                  |          |       |         |                                  |

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

## 2-3. 2010년

|          | 석탄 및<br>석탄제품<br>(천톤) | 천연가스<br>(천톤) | 도시가스<br>(백만㎥) | 원유 및 정제원료<br>(천배럴)              | 석유제품<br>(천배럴)   | 원자력<br>(GWh) | 수력<br>(GWh) | 신재생 <sup>1)</sup><br>(천toe) | 전기<br>(GWh) | 열<br>(천toe) | 합계<br>(천toe) |
|----------|----------------------|--------------|---------------|---------------------------------|-----------------|--------------|-------------|-----------------------------|-------------|-------------|--------------|
| 국내생산     | 2,084                | 415          | -             | 380                             | -               | 148,596      | 3,705       | 3,773                       | -           | 16          | 38,097       |
| 수입       | 119,304              | 32,603       | -             | 874,666                         | 276,849         | -            | -           | -                           | -           | -           | 280,301      |
| 수출       | -12                  | -            | -             | -3,330                          | -340,597        | -            | -           | -                           | -           | -           | -48,575      |
| 국제병커링    | -                    | -            | -             | -                               | -87,436         | -            | -           | -                           | -           | -           | -13,140      |
| 재고변화     | -317                 | -928         | -             | -1,896                          | -2,767          | -            | -           | 0                           | -           | -           | -2,247       |
| 일차에너지공급  | 121,059              | 32,090       | -             | 869,820                         | -153,952        | 148,596      | 3,705       | 3,773                       | -           | 16          | 254,436      |
| 제품이동     | -                    | -            | -             | 520                             | -2,072          | -            | -           | -                           | -           | -           | -89          |
| 통계오차     | 4,065                | 866          | 167           | -737                            | -2,411          | -            | -           | 0                           | -           | -           | 3,605        |
| 일차에너지소비  | 125,124              | 32,956       | 167           | 869,604                         | -158,434        | 148,596      | 3,705       | 3,773                       | -           | 16          | 257,952      |
| 전환공정     | -79,078              | -31,943      | 21,028        | -869,469                        | 873,515         | -148,596     | -3,682      | -510                        | 471,945     | 2,001       | -65,417      |
| 발전전용     | -79,078              | -9,462       | -             | -                               | -18,201         | -148,596     | -3,682      | -535                        | 463,865     | -16         | -57,068      |
| 열병합      | -                    | -5,127       | -167          | -                               | -1,767          | -            | -           | -10                         | 8,080       | 1,878       | -4,557       |
| 열전용      | -                    | -            | -592          | -                               | -2,403          | -            | -           | -6                          | -           | 139         | -869         |
| 석유제품생산   | -                    | -            | -             | -869,469                        | 900,247         | -            | -           | -                           | -           | -           | -2,966       |
| 가스제조     | -                    | -17,354      | 21,787        | -                               | -4,361          | -            | -           | -                           | -           | -           | 0            |
| 석탄합성가스제조 | -                    | -            | -             | -                               | -               | -            | -           | -                           | -           | -           | -            |
| 기타전환     | -                    | -            | -             | -                               | -               | -            | -           | 42                          | -           | -           | 42           |
| 전환자제소비   | -                    | -274         | -             | -135                            | -33,486         | -            | -           | -2                          | -28,962     | -           | -6,597       |
| 손실       | -                    | -            | -             | -                               | -               | -            | -           | -                           | -17,466     | -64         | -1,566       |
| 최종소비     | 46,046               | 739          | 21,195        | -                               | 681,595         | -            | 23          | 3,261                       | 425,518     | 1,953       | 184,372      |
| 산업       | 44,630               | 739          | 6,947         | -                               | 397,694         | -            | -           | 1,550                       | 214,529     | -           | 109,779      |
| 농림어업     | 524                  | -            | 4             | -                               | 16,348          | -            | -           | 10                          | 10,042      | -           | 3,454        |
| 광업       | 0                    | -            | 0             | -                               | 662             | -            | -           | -                           | 1,683       | -           | 240          |
| 제조업      | 44,104               | 739          | 6,942         | -                               | 363,444         | -            | -           | 1,540                       | 202,804     | -           | 103,431      |
| 식품및담배    | 62                   | -            | 567           | -                               | 2,281           | -            | -           | 10                          | 8,737       | -           | 1,744        |
| 섬유및가죽    | 1,910                | -            | 512           | -                               | 2,569           | -            | -           | 67                          | 12,362      | -           | 3,249        |
| 목재및무제품   | -                    | -            | 50            | -                               | 244             | -            | -           | 84                          | 1,754       | -           | 324          |
| 제지및인쇄    | 23                   | -            | 288           | -                               | 2,551           | -            | -           | 363                         | 10,019      | -           | 1,938        |
| 화학및석유화학  | 3,744                | -            | 1,563         | -                               | 326,623         | -            | -           | 154                         | 34,496      | -           | 48,754       |
| 비금속광물    | 4,564                | -            | 432           | -                               | 6,045           | -            | -           | 706                         | 11,620      | -           | 5,919        |
| 철강       | 29,202               | 572          | 1,384         | -                               | 2,011           | -            | -           | 7                           | 34,494      | -           | 25,394       |
| 비철금속     | 608                  | -            | 195           | -                               | 648             | -            | -           | 17                          | 7,415       | -           | 1,336        |
| 기계류      | -                    | -            | 727           | -                               | 2,049           | -            | -           | 101                         | 59,283      | -           | 6,254        |
| 수송장비     | -                    | 12           | 566           | -                               | 1,889           | -            | -           | -                           | 20,207      | -           | 2,615        |
| 기타제조     | 3,990                | 155          | 658           | -                               | 10,122          | -            | -           | 6                           | 1,874       | -           | 4,874        |
| 기타에너지    | -                    | -            | -             | -                               | 6,410           | -            | -           | 25                          | 544         | -           | 1,030        |
| 건설업      | 2                    | -            | 0             | -                               | 17,241          | -            | -           | 0                           | -           | -           | 2,653        |
| 수송       | -                    | -            | 1,054         | -                               | 223,353         | -            | -           | 357                         | 2,191       | -           | 31,009       |
| 철도       | -                    | -            | -             | -                               | 1,355           | -            | -           | -                           | 2,191       | -           | 383          |
| 도로       | -                    | -            | 1,054         | -                               | 214,105         | -            | -           | 357                         | -           | -           | 29,462       |
| 국내해운     | -                    | -            | -             | -                               | 5,080           | -            | -           | -                           | -           | -           | 772          |
| 국내항공     | -                    | -            | -             | -                               | 2,813           | -            | -           | -                           | -           | -           | 392          |
| 가정       | 1,120                | -            | 9,607         | -                               | 23,677          | -            | -           | 77                          | 61,194      | 1,742       | 20,733       |
| 상업 공공    | 296                  | -            | 3,588         | -                               | 36,871          | -            | 23          | 1,277                       | 147,604     | 211         | 22,851       |
|          | Coal                 | Natural Gas  | City Gas      | Crude oil & refinery feedstocks | Petroleum       | Nuclear      | Hydro       | Renewables                  | Electric    | Heat        | Total        |
|          | (Thou. Tons)         | (Thou. Tons) | (Mil. Mtr)    | (Thou. Barrels)                 | (Thou. Barrels) | (GWh)        | (GWh)       | (Thou. toe)                 | (GWh)       | (Thou. toe) | (Thou. toe)  |

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

| 석탄 및<br>석탄제품 | 천연<br>가스    | 도시<br>가스 | 원유 및<br>정제원료                    | 석유제품      | 원자력     | 수력    | 신재생 <sup>1</sup> | 전기       | 열     | 합계      |                                  |
|--------------|-------------|----------|---------------------------------|-----------|---------|-------|------------------|----------|-------|---------|----------------------------------|
| (천toe)       |             |          |                                 |           |         |       |                  |          |       |         |                                  |
| 969          | 539         | -        | 56                              | -         | 31,948  | 797   | 3,773            | -        | 16    | 38,097  | Production                       |
| 75,340       | 42,384      | -        | 128,349                         | 34,227    | -       | -     | -                | -        | -     | 280,301 | Imports                          |
| -8           | -           | -        | -620                            | -47,946   | -       | -     | -                | -        | -     | -48,575 | Exports                          |
| -            | -           | -        | -                               | -13,140   | -       | -     | -                | -        | -     | -13,140 | International Bunkers            |
| -292         | -1,206      | -        | -338                            | -410      | -       | -     | 0                | -        | -     | -2,247  | Stock changes                    |
| 76,008       | 41,718      | -        | 127,447                         | -27,269   | 31,948  | 797   | 3,773            | -        | 16    | 254,436 | Total primary energy supply      |
| -            | -           | -        | 97                              | -186      | -       | -     | -                | -        | -     | -89     | Transfers                        |
| 2,768        | 1,125       | 176      | -137                            | -328      | -       | -     | 0                | -        | -     | 3,605   | Statistical differences          |
| 78,777       | 42,843      | 176      | 127,407                         | -27,784   | 31,948  | 797   | 3,773            | -        | 16    | 257,952 | Total primary energy consumption |
| -48,520      | -41,526     | 22,185   | -127,387                        | 120,493   | -31,948 | -792  | -510             | 40,587   | 2,001 | -65,417 | Transformation processes         |
| -48,520      | -12,300     | -        | -                               | -2,849    | -31,948 | -792  | -535             | 39,892   | -16   | -57,068 | Electricity-only plants          |
| -            | -6,665      | -176     | -                               | -278      | -       | -     | -10              | 695      | 1,878 | -4,557  | CHP plants                       |
| -            | -           | -624     | -                               | -378      | -       | -     | -6               | -        | 139   | -869    | Heat-only plants                 |
| -            | -           | -        | -127,387                        | 124,421   | -       | -     | -                | -        | -     | -2,966  | Petroleum Products               |
| -            | -22,561     | 22,985   | -                               | -425      | -       | -     | -                | -        | -     | 0       | Gas manufacturing                |
| -            | -           | -        | -                               | -         | -       | -     | -                | -        | -     | -       | Coal-to-Gas plants               |
| -            | -           | -        | -                               | -         | -       | -     | 42               | -        | -     | 42      | Non-specified Transformation     |
| -            | -357        | -        | -20                             | -3,728    | -       | -     | -2               | -2,491   | -     | -6,597  | Transformation Own Use           |
| -            | -           | -        | -                               | -         | -       | -     | -1,502           | -64      | -     | -1,566  | Losses                           |
| 30,256       | 960         | 22,361   | -                               | 88,981    | -       | 5     | 3,261            | 36,595   | 1,953 | 184,372 | Total final consumption          |
| 29,570       | 960         | 7,329    | -                               | 51,920    | -       | -     | 1,550            | 18,449   | -     | 109,779 | Industry                         |
| 242          | -           | 5        | -                               | 2,334     | -       | -     | 10               | 864      | -     | 3,454   | Agriculture/forestry/Fishing     |
| 0            | -           | 0        | -                               | 95        | -       | -     | -                | 145      | -     | 240     | Mining and quarrying             |
| 29,328       | 960         | 7,324    | -                               | 46,838    | -       | -     | 1,540            | 17,441   | -     | 103,431 | Manufacturing                    |
| 39           | -           | 598      | -                               | 346       | -       | -     | 10               | 751      | -     | 1,744   | Food and tobacco                 |
| 1,184        | -           | 540      | -                               | 396       | -       | -     | 67               | 1,063    | -     | 3,249   | Textile and leather              |
| -            | -           | 53       | -                               | 36        | -       | -     | 84               | 151      | -     | 324     | Wood and wood products           |
| 23           | -           | 288      | -                               | 2,551     | -       | -     | 363              | 10,019   | -     | 1,938   | Paper, pulp and print            |
| 2,321        | -           | 1,648    | -                               | 41,663    | -       | -     | 154              | 2,967    | -     | 48,754  | Chemical and petrochemical       |
| 2,830        | -           | 456      | -                               | 929       | -       | -     | 706              | 999      | -     | 5,919   | Non-metallic minerals            |
| 19,939       | 743         | 1,460    | -                               | 279       | -       | -     | 7                | 2,966    | -     | 25,394  | Iron and steel                   |
| 387          | -           | 206      | -                               | 89        | -       | -     | 17               | 638      | -     | 1,336   | Non-ferrous metals               |
| -            | -           | 768      | -                               | 288       | -       | -     | 101              | 5,098    | -     | 6,254   | Machinery                        |
| -            | 16          | 597      | -                               | 264       | -       | -     | -                | 1,738    | -     | 2,615   | Transport Equipment              |
| 2,613        | 201         | 694      | -                               | 1,198     | -       | -     | 6                | 161      | -     | 4,874   | Other manufacturing              |
| -            | -           | -        | -                               | 958       | -       | -     | 25               | 47       | -     | 1,030   | Other energy                     |
| 1            | -           | 0        | -                               | 2,652     | -       | -     | 0                | -        | -     | 2,653   | Construction                     |
| -            | -           | 1,112    | -                               | 29,352    | -       | -     | 357              | 188      | -     | 31,009  | Transport                        |
| -            | -           | -        | -                               | 195       | -       | -     | -                | 188      | -     | 383     | Rail                             |
| -            | -           | 1,112    | -                               | 27,993    | -       | -     | 357              | -        | -     | 29,462  | Road                             |
| -            | -           | -        | -                               | 772       | -       | -     | -                | -        | -     | 772     | Domestic navigation              |
| -            | -           | -        | -                               | 392       | -       | -     | -                | -        | -     | 392     | Domestic aviation                |
| 542          | -           | 10,135   | -                               | 2,974     | -       | -     | 77               | 5,263    | 1,742 | 20,733  | Residential                      |
| 143          | -           | 3,785    | -                               | 4,735     | -       | 5     | 1,277            | 12,694   | 211   | 22,851  | Commercial Public                |
| Coal         | Natural Gas | City Gas | Crude oil & refinery feedstocks | Petroleum | Nuclear | Hydro | Renewables       | Electric | Heat  | Total   |                                  |
| (Thou. toe)  |             |          |                                 |           |         |       |                  |          |       |         |                                  |

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

## 2-4. 2013년

|          | 석탄 및<br>석탄제품<br>(천톤) | 천연가스<br>(천톤) | 도시가스<br>(백만㎞) | 원유 및 정제원료<br>(천배럴)              | 석유제품<br>(천배럴)   | 원자력<br>(GWh) | 수력<br>(GWh) | 신재생¹<br>(천toe) | 전기<br>(GWh) | 열<br>(천toe) | 합계<br>(천toe) |
|----------|----------------------|--------------|---------------|---------------------------------|-----------------|--------------|-------------|----------------|-------------|-------------|--------------|
| 국내생산     | 1,815                | 355          | -             | 290                             | -               | 138,784      | 4,295       | 5,440          | -           | 113         | 37,065       |
| 수입       | 126,996              | 39,876       | -             | 918,634                         | 329,205         | -            | -           | -              | -           | -           | 306,375      |
| 수출       | -62                  | -            | -             | -1,988                          | -429,291        | -            | -           | -              | -           | -           | -60,318      |
| 국제병커링    | -                    | -            | -             | -                               | -85,548         | -            | -           | -              | -           | -           | -12,848      |
| 재고변화     | 1,261                | -397         | -             | -6,060                          | -1,133          | -            | -           | 2              | -           | -           | -742         |
| 일차에너지공급  | 130,010              | 39,834       | -             | 910,875                         | -186,766        | 138,784      | 4,295       | 5,442          | -           | 113         | 269,532      |
| 제품이동     | -                    | -            | -             | 7,414                           | -9,625          | -            | -           | -              | -           | -           | 1            |
| 통계오차     | 3,218                | 372          | 606           | 4,702                           | -3,901          | -            | -           | 0              | -           | -           | 3,513        |
| 일차에너지소비  | 133,228              | 40,205       | 606           | 922,992                         | -200,292        | 138,784      | 4,295       | 5,442          | -           | 113         | 273,047      |
| 전환공정     | -81,421              | -39,264      | 23,337        | -922,923                        | 941,855         | -138,784     | -4,289      | -953           | 513,146     | 2,346       | -69,322      |
| 발전전용     | -81,421              | -15,663      | -             | -                               | -22,726         | -138,784     | -4,289      | -1,027         | 488,583     | -113        | -63,114      |
| 열병합      | -                    | -4,201       | -644          | -                               | -235            | -            | -           | -44            | 24,563      | 2,260       | -1,858       |
| 열전용      | -                    | -            | -375          | -                               | -1,274          | -            | -           | -5             | -           | 199         | -398         |
| 석유제품생산   | -                    | -            | -             | -922,923                        | 967,180         | -            | -           | -              | -           | -           | -4,075       |
| 가스제조     | -                    | -19,400      | 24,356        | -                               | -1,090          | -            | -           | -              | -           | -           | 0            |
| 석탄합성가스제조 | -                    | -            | -             | -                               | -               | -            | -           | -              | -           | -           | -            |
| 기타전환     | -                    | -            | -             | -                               | -               | -            | -           | 122            | -           | -           | 122          |
| 전환자제소비   | -                    | -144         | -             | -69                             | -38,481         | -            | -           | -              | -32,267     | -           | -7,057       |
| 손실       | -                    | -            | -             | -                               | -               | -            | -           | -              | -16,428     | -411        | -1,824       |
| 최종소비     | 51,807               | 798          | 23,943        | -                               | 703,082         | -            | 5           | 4,490          | 464,451     | 2,049       | 194,844      |
| 산업       | 50,283               | 798          | 9,646         | -                               | 422,641         | -            | -           | 3,275          | 246,444     | -           | 120,846      |
| 농림어업     | 511                  | -            | 4             | -                               | 15,403          | -            | -           | 20             | 13,062      | -           | 3,550        |
| 광업       | -                    | -            | 0             | -                               | 711             | -            | -           | 0              | 1,478       | -           | 228          |
| 제조업      | 49,769               | 798          | 9,641         | -                               | 390,614         | -            | -           | 3,255          | 231,904     | -           | 114,609      |
| 식품및담배    | 61                   | -            | 666           | -                               | 766             | -            | -           | 57             | 10,018      | -           | 1,759        |
| 섬유및가죽    | 1,813                | -            | 359           | -                               | 588             | -            | -           | 151            | 12,429      | -           | 2,797        |
| 목재및무제품   | -                    | -            | 49            | -                               | 112             | -            | -           | 158            | 1,859       | -           | 386          |
| 제지및인쇄    | 26                   | -            | 418           | -                               | 395             | -            | -           | 646            | 10,170      | -           | 2,030        |
| 화학및석유화학  | 3,868                | -            | 3,107         | -                               | 367,616         | -            | -           | 321            | 41,612      | -           | 54,825       |
| 비금속광물    | 4,647                | -            | 588           | -                               | 3,380           | -            | -           | 899            | 11,236      | -           | 5,855        |
| 철강       | 33,638               | 601          | 1,319         | -                               | 916             | -            | -           | 4              | 38,033      | -           | 28,116       |
| 비철금속     | 732                  | -            | 276           | -                               | 326             | -            | -           | 0              | 8,536       | -           | 1,480        |
| 기계류      | -                    | -            | 777           | -                               | 1,282           | -            | -           | 74             | 72,345      | -           | 7,279        |
| 수송장비     | -                    | 2            | 955           | -                               | 2,183           | -            | -           | 4              | 22,976      | -           | 3,289        |
| 기타제조     | 4,984                | 194          | 1,127         | -                               | 7,785           | -            | -           | 3              | 2,119       | -           | 5,046        |
| 기타에너지    | -                    | -            | -             | -                               | 5,266           | -            | -           | 936            | 570         | -           | 1,746        |
| 건설업      | 3                    | -            | 0             | -                               | 15,914          | -            | -           | -              | -           | -           | 2,458        |
| 수송       | -                    | -            | 1,248         | -                               | 230,691         | -            | -           | 375            | 2,168       | -           | 32,017       |
| 철도       | -                    | -            | -             | -                               | 1,087           | -            | -           | -              | 2,168       | -           | 342          |
| 도로       | -                    | -            | 1,248         | -                               | 221,001         | -            | -           | 375            | -           | -           | 30,446       |
| 국내해운     | -                    | -            | -             | -                               | 3,239           | -            | -           | -              | -           | -           | 483          |
| 국내항공     | -                    | -            | -             | -                               | 5,364           | -            | -           | -              | -           | -           | 745          |
| 가정       | 1,071                | -            | 9,611         | -                               | 18,004          | -            | -           | 157            | 63,970      | 1,797       | 20,166       |
| 상업 공공    | 454                  | -            | 3,438         | -                               | 31,746          | -            | 5           | 683            | 151,869     | 252         | 21,816       |
|          | Coal                 | Natural Gas  | City Gas      | Crude oil & refinery feedstocks | Petroleum       | Nuclear      | Hydro       | Renewables     | Electric    | Heat        | Total        |
|          | (Thou. Tons)         | (Thou. Tons) | (Mil. Ntr)    | (Thou. Barrels)                 | (Thou. Barrels) | (GWh)        | (GWh)       | (Thou. toe)    | (GWh)       | (Thou. toe) | (Thou. toe)  |

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

| 석탄 및<br>석탄제품 | 천연<br>가스    | 도시<br>가스 | 원유 및<br>정제원료                    | 석유제품      | 원자력     | 수력    | 신재생 <sup>1</sup> | 전기       | 열     | 합계      |                                  |
|--------------|-------------|----------|---------------------------------|-----------|---------|-------|------------------|----------|-------|---------|----------------------------------|
| (천toe)       |             |          |                                 |           |         |       |                  |          |       |         |                                  |
| 817          | 463         | -        | 42                              | -         | 29,283  | 906   | 5,440            | -        | 113   | 37,065  | Production                       |
| 78,923       | 51,998      | -        | 134,607                         | 40,847    | -       | -     | -                | -        | -     | 306,375 | Imports                          |
| -40          | -           | -        | -369                            | -59,909   | -       | -     | -                | -        | -     | -60,318 | Exports                          |
| -            | -           | -        | -                               | -12,848   | -       | -     | -                | -        | -     | -12,848 | International Bunkers            |
| 837          | -518        | -        | -905                            | -159      | -       | -     | 2                | -        | -     | -742    | Stock changes                    |
| 80,538       | 51,943      | -        | 133,375                         | -32,069   | 29,283  | 906   | 5,442            | -        | 113   | 269,532 | Total primary energy supply      |
| -            | -           | -        | 1,381                           | -1,379    | -       | -     | -                | -        | -     | 1       | Transfers                        |
| 2,089        | 485         | 632      | 882                             | -575      | -       | -     | 0                | -        | -     | 3,513   | Statistical differences          |
| 82,627       | 52,428      | 632      | 135,638                         | -34,022   | 29,283  | 906   | 5,442            | -        | 113   | 273,047 | Total primary energy consumption |
| -49,808      | -51,200     | 24,340   | -135,626                        | 127,636   | -29,283 | -905  | -953             | 44,131   | 2,346 | -69,322 | Transformation processes         |
| -49,808      | -20,424     | -        | -                               | -3,571    | -29,283 | -905  | -1,027           | 42,018   | -113  | -63,114 | Electricity-only plants          |
| -            | -5,478      | -672     | -                               | -37       | -       | -     | -44              | 2,112    | 2,260 | -1,858  | CHP plants                       |
| -            | -           | -391     | -                               | -201      | -       | -     | -5               | -        | 199   | -398    | Heat-only plants                 |
| -            | -           | -        | -135,626                        | 131,551   | -       | -     | -                | -        | -     | -4,075  | Petroleum Products               |
| -            | -25,297     | 25,403   | -                               | -106      | -       | -     | -                | -        | -     | 0       | Gas manufacturing                |
| -            | -           | -        | -                               | -         | -       | -     | -                | -        | -     | -       | Coal-to-Gas plants               |
| -            | -           | -        | -                               | -         | -       | -     | 122              | -        | -     | 122     | Non-specified Transformation     |
| -            | -187        | -        | -12                             | -4,083    | -       | -     | -                | -2,775   | -     | -7,057  | Transformation Own Use           |
| -            | -           | -        | -                               | -         | -       | -     | -                | -1,413   | -411  | -1,824  | Losses                           |
| 32,819       | 1,041       | 24,972   | -                               | 89,530    | -       | 1     | 4,490            | 39,943   | 2,049 | 194,844 | Total final consumption          |
| 32,125       | 1,041       | 10,060   | -                               | 53,151    | -       | -     | 3,275            | 21,194   | -     | 120,846 | Industry                         |
| 220          | -           | 4        | -                               | 2,183     | -       | -     | 20               | 1,123    | -     | 3,550   | Agriculture/forestry/Fishing     |
| -            | -           | 0        | -                               | 101       | -       | -     | 0                | 127      | -     | 228     | Mining and quarrying             |
| 31,904       | 1,041       | 10,056   | -                               | 48,411    | -       | -     | 3,255            | 19,944   | -     | 114,609 | Manufacturing                    |
| 38           | -           | 695      | -                               | 107       | -       | -     | 57               | 862      | -     | 1,759   | Food and tobacco                 |
| 1,117        | -           | 374      | -                               | 87        | -       | -     | 151              | 1,069    | -     | 2,797   | Textile and leather              |
| -            | -           | 52       | -                               | 16        | -       | -     | 158              | 160      | -     | 386     | Wood and wood products           |
| 26           | -           | 418      | -                               | 395       | -       | -     | 646              | 10,170   | -     | 2,030   | Paper, pulp and print            |
| 2,382        | -           | 3,240    | -                               | 45,303    | -       | -     | 321              | 3,579    | -     | 54,825  | Chemical and petrochemical       |
| 2,863        | -           | 613      | -                               | 514       | -       | -     | 899              | 966      | -     | 5,855   | Non-metallic minerals            |
| 22,574       | 784         | 1,376    | -                               | 106       | -       | -     | 4                | 3,271    | -     | 28,116  | Iron and steel                   |
| 413          | -           | 288      | -                               | 45        | -       | -     | 0                | 734      | -     | 1,480   | Non-ferrous metals               |
| -            | -           | 811      | -                               | 173       | -       | -     | 74               | 6,222    | -     | 7,279   | Machinery                        |
| -            | 3           | 996      | -                               | 310       | -       | -     | 4                | 1,976    | -     | 3,289   | Transport Equipment              |
| 2,502        | 253         | 1,175    | -                               | 931       | -       | -     | 3                | 182      | -     | 5,046   | Other manufacturing              |
| -            | -           | -        | -                               | 761       | -       | -     | 936              | 49       | -     | 1,746   | Other energy                     |
| 1            | -           | 0        | -                               | 2,456     | -       | -     | -                | -        | -     | 2,458   | Construction                     |
| -            | -           | 1,302    | -                               | 30,154    | -       | -     | 375              | 186      | -     | 32,017  | Transport                        |
| -            | -           | -        | -                               | 156       | -       | -     | -                | 186      | -     | 342     | Rail                             |
| -            | -           | 1,302    | -                               | 28,769    | -       | -     | 375              | -        | -     | 30,446  | Road                             |
| -            | -           | -        | -                               | 483       | -       | -     | -                | -        | -     | 483     | Domestic navigation              |
| -            | -           | -        | -                               | 745       | -       | -     | -                | -        | -     | 745     | Domestic aviation                |
| 487          | -           | 10,024   | -                               | 2,199     | -       | -     | 157              | 5,501    | 1,797 | 20,166  | Residential                      |
| 207          | -           | 3,586    | -                               | 4,027     | -       | 1     | 683              | 13,061   | 252   | 21,816  | Commercial Public                |
| Coal         | Natural Gas | City Gas | Crude oil & refinery feedstocks | Petroleum | Nuclear | Hydro | Renewables       | Electric | Heat  | Total   |                                  |
| (Thou. toe)  |             |          |                                 |           |         |       |                  |          |       |         |                                  |

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

## 2-5. 2014년

|          | 석탄 및<br>석탄제품<br>(천톤) | 천연가스<br>(천톤) | 도시가스<br>(백만㎥) | 원유 및 정제원료<br>(천배럴)              | 석유제품<br>(천배럴)   | 원자력<br>(GWh) | 수력<br>(GWh) | 신재생¹<br>(천toe) | 전기<br>(GWh) | 열<br>(천toe) | 합계<br>(천toe) |
|----------|----------------------|--------------|---------------|---------------------------------|-----------------|--------------|-------------|----------------|-------------|-------------|--------------|
| 국내생산     | 1,748                | 247          | -             | 198                             | -               | 156,407      | 2,754       | 6,636          | -           | 68          | 41,424       |
| 수입       | 131,563              | 37,107       | -             | 933,736                         | 326,623         | -            | -           | -              | -           | -           | 307,855      |
| 수출       | -47                  | -            | -             | -992                            | -448,822        | -            | -           | -              | -           | -           | -62,804      |
| 국제변경량    | -                    | -            | -             | -                               | -86,802         | -            | -           | -              | -           | -           | -13,035      |
| 재고변화     | 355                  | -997         | -             | -8,093                          | -89             | -            | -           | -0             | -           | -           | -2,187       |
| 일차에너지공급  | 133,619              | 36,357       | -             | 924,848                         | -209,090        | 156,407      | 2,754       | 6,636          | -           | 68          | 271,253      |
| 제품이동     | -                    | -            | -             | 14,305                          | -16,289         | -            | -           | -              | -           | -           | 339          |
| 통계오차     | 3,477                | 225          | 294           | 68                              | -2,523          | -            | -           | -0             | -           | -           | 2,707        |
| 일차에너지소비  | 137,095              | 36,582       | 294           | 939,222                         | -227,903        | 156,407      | 2,754       | 6,636          | -           | 68          | 274,299      |
| 전환공정     | -80,271              | -35,689      | 21,618        | -939,156                        | 976,258         | -156,407     | -2,751      | -1,850         | 517,005     | 2,376       | -67,956      |
| 발전전용     | -80,271              | -14,132      | -             | -                               | -10,433         | -156,407     | -2,751      | -1,873         | 483,361     | -68         | -62,858      |
| 열병합      | -                    | -3,591       | -534          | -                               | -592            | -            | -           | -175           | 33,644      | 2,301       | -314         |
| 열전용      | -                    | -            | -324          | -                               | -1,036          | -            | -           | -2             | -           | 143         | -361         |
| 석유제품생산   | -                    | -            | -             | -939,156                        | 988,461         | -            | -           | -              | -           | -           | -4,622       |
| 가스제조     | -                    | -17,967      | 22,476        | -                               | -142            | -            | -           | -              | -           | -           | 0            |
| 석탄합성가스제조 | -                    | -            | -             | -                               | -               | -            | -           | -              | -           | -           | -            |
| 기타전환     | -                    | -            | -             | -                               | -               | -            | -           | 199            | -           | -           | 199          |
| 전환자제소비   | -                    | -111         | -1,309        | -66                             | -39,214         | -            | -           | -              | -33,210     | -           | -8,507       |
| 손실       | -                    | -            | -             | -                               | -               | -            | -           | -              | -17,478     | -506        | -2,009       |
| 최종소비     | 56,824               | 781          | 20,602        | -                               | 709,141         | -            | 3           | 4,785          | 466,317     | 1,938       | 195,827      |
| 산업       | 55,526               | 781          | 7,367         | -                               | 428,460         | -            | -           | 2,980          | 253,343     | -           | 122,824      |
| 농림어업     | 450                  | -            | 3             | -                               | 11,802          | -            | -           | 22             | 13,556      | -           | 3,053        |
| 광업       | -                    | -            | -             | -                               | 510             | -            | -           | 0              | 1,571       | -           | 208          |
| 제조업      | 55,073               | 781          | 7,363         | -                               | 401,259         | -            | -           | 2,954          | 238,216     | -           | 117,270      |
| 식품및담배    | 62                   | -            | 671           | -                               | 630             | -            | -           | 77             | 10,105      | -           | 1,770        |
| 섬유및가죽    | 1,949                | -            | 361           | -                               | 553             | -            | -           | 105            | 11,965      | -           | 2,793        |
| 목재및무제품   | -                    | -            | 74            | -                               | 65              | -            | -           | 154            | 1,928       | -           | 406          |
| 제지및인쇄    | 25                   | -            | 309           | -                               | 250             | -            | -           | 936            | 9,980       | -           | 2,168        |
| 화학및석유화학  | 4,982                | -            | 1,542         | -                               | 378,821         | -            | -           | 132            | 43,615      | -           | 55,165       |
| 비금속광물    | 4,916                | -            | 543           | -                               | 3,006           | -            | -           | 839            | 11,643      | -           | 5,892        |
| 철강       | 38,262               | 568          | 1,215         | -                               | 880             | -            | -           | 13             | 40,367      | -           | 31,274       |
| 비철금속     | 777                  | -            | 246           | -                               | 247             | -            | -           | -              | 8,526       | -           | 1,461        |
| 기계류      | -                    | -            | 1,044         | -                               | 1,379           | -            | -           | -              | 73,248      | -           | 7,578        |
| 수송장비     | -                    | 11           | 693           | -                               | 2,123           | -            | -           | 20             | 24,014      | -           | 3,124        |
| 기타제조     | 4,099                | 202          | 665           | -                               | 8,300           | -            | -           | 677            | 2,265       | -           | 4,863        |
| 기타에너지    | -                    | -            | -             | -                               | 5,004           | -            | -           | -              | 559         | -           | 777          |
| 건설업      | 4                    | -            | 1             | -                               | 14,890          | -            | -           | 5              | -           | -           | 2,293        |
| 수송       | -                    | -            | 1,253         | -                               | 232,807         | -            | -           | 394            | 1,999       | -           | 32,406       |
| 철도       | -                    | -            | -             | -                               | 910             | -            | -           | -              | 1,999       | -           | 302          |
| 도로       | -                    | -            | 1,253         | -                               | 221,575         | -            | -           | 394            | -           | -           | 30,647       |
| 국내해운     | -                    | -            | -             | -                               | 2,324           | -            | -           | -              | -           | -           | 346          |
| 국내항공     | -                    | -            | -             | -                               | 7,997           | -            | -           | -              | -           | -           | 1,111        |
| 가정       | 912                  | -            | 8,764         | -                               | 17,278          | -            | -           | 111            | 62,675      | 1,720       | 18,876       |
| 상업 공공    | 386                  | -            | 3,218         | -                               | 30,596          | -            | 3           | 1,300          | 148,299     | 218         | 21,722       |
|          | Coal                 | Natural Gas  | City Gas      | Crude oil & refinery feedstocks | Petroleum       | Nuclear      | Hydro       | Renewables     | Electric    | Heat        | Total        |
|          | (Thou. Tons)         | (Thou. Tons) | (Mil. Mtr)    | (Thou. Barrels)                 | (Thou. Barrels) | (GWh)        | (GWh)       | (Thou. toe)    | (GWh)       | (Thou. toe) | (Thou. toe)  |

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원



| 석탄 및<br>석탄제품 | 천연<br>가스    | 도시<br>가스 | 원유 및<br>정제원료                    | 석유제품      | 원자력     | 수력    | 신재생 <sup>1</sup> | 전기       | 열     | 합계      |                                  |
|--------------|-------------|----------|---------------------------------|-----------|---------|-------|------------------|----------|-------|---------|----------------------------------|
| (천toe)       |             |          |                                 |           |         |       |                  |          |       |         |                                  |
| 787          | 322         | -        | 29                              | -         | 33,002  | 581   | 6,636            | -        | 68    | 41,424  | Production                       |
| 81,782       | 48,388      | -        | 136,928                         | 40,757    | -       | -     | -                | -        | -     | 307,855 | Imports                          |
| -28          | -           | -        | -185                            | -62,591   | -       | -     | -                | -        | -     | -62,804 | Exports                          |
| -            | -           | -        | -                               | -13,035   | -       | -     | -                | -        | -     | -13,035 | International Bunkers            |
| 224          | -1,300      | -        | -1,178                          | 68        | -       | -     | -0               | -        | -     | -2,187  | Stock changes                    |
| 82,764       | 47,409      | -        | 135,594                         | -34,801   | 33,002  | 581   | 6,636            | -        | 68    | 271,253 | Total primary energy supply      |
| -            | -           | -        | 2,664                           | -2,324    | -       | -     | -                | -        | -     | 339     | Transfers                        |
| 2,393        | 293         | 306      | 70                              | -356      | -       | -     | -0               | -        | -     | 2,707   | Statistical differences          |
| 85,158       | 47,702      | 306      | 138,328                         | -37,482   | 33,002  | 581   | 6,636            | -        | 68    | 274,299 | Total primary energy consumption |
| -48,841      | -46,539     | 22,547   | -138,315                        | 131,787   | -33,002 | -581  | -1,850           | 44,462   | 2,376 | -67,956 | Transformation processes         |
| -48,841      | -18,428     | -        | -                               | -1,635    | -33,002 | -581  | -1,873           | 41,569   | -68   | -62,858 | Electricity-only plants          |
| -            | -4,683      | -557     | -                               | -94       | -       | -     | -175             | 2,893    | 2,301 | -314    | CHP plants                       |
| -            | -           | -338     | -                               | -164      | -       | -     | -2               | -        | 143   | -361    | Heat-only plants                 |
| -            | -           | -        | -138,315                        | 133,693   | -       | -     | -                | -        | -     | -4,622  | Petroleum Products               |
| -            | -23,429     | 23,442   | -                               | -14       | -       | -     | -                | -        | -     | 0       | Gas manufacturing                |
| -            | -           | -        | -                               | -         | -       | -     | -                | -        | -     | -       | Coal-to-Gas plants               |
| -            | -           | -        | -                               | -         | -       | -     | 199              | -        | -     | 199     | Non-specified Transformation     |
| -            | -145        | -1,366   | -12                             | -4,128    | -       | -     | -                | -2,856   | -     | -8,507  | Transformation Own Use           |
| -            | -           | -        | -                               | -         | -       | -     | -                | -1,503   | -506  | -2,009  | Losses                           |
| 36,317       | 1,018       | 21,488   | -                               | 90,177    | -       | 1     | 4,785            | 40,103   | 1,938 | 195,827 | Total final consumption          |
| 35,723       | 1,018       | 7,684    | -                               | 53,631    | -       | -     | 2,980            | 21,788   | -     | 122,824 | Industry                         |
| 192          | -           | 3        | -                               | 1,670     | -       | -     | 22               | 1,166    | -     | 3,053   | Agriculture/forestry/Fishing     |
| -            | -           | -        | -                               | 73        | -       | -     | 0                | 135      | -     | 208     | Mining and quarrying             |
| 35,530       | 1,018       | 7,679    | -                               | 49,602    | -       | -     | 2,954            | 20,487   | -     | 117,270 | Manufacturing                    |
| 38           | -           | 700      | -                               | 86        | -       | -     | 77               | 869      | -     | 1,770   | Food and tobacco                 |
| 1,201        | -           | 376      | -                               | 82        | -       | -     | 105              | 1,029    | -     | 2,793   | Textile and leather              |
| -            | -           | 77       | -                               | 9         | -       | -     | 154              | 166      | -     | 406     | Wood and wood products           |
| 25           | -           | 309      | -                               | 250       | -       | -     | 936              | 9,980    | -     | 2,168   | Paper, pulp and print            |
| 3,069        | -           | 1,609    | -                               | 46,604    | -       | -     | 132              | 3,751    | -     | 55,165  | Chemical and petrochemical       |
| 3,028        | -           | 566      | -                               | 457       | -       | -     | 839              | 1,001    | -     | 5,892   | Non-metallic minerals            |
| 25,683       | 740         | 1,267    | -                               | 100       | -       | -     | 13               | 3,472    | -     | 31,274  | Iron and steel                   |
| 438          | -           | 257      | -                               | 33        | -       | -     | -                | 733      | -     | 1,461   | Non-ferrous metals               |
| -            | -           | 1,089    | -                               | 190       | -       | -     | -                | 6,299    | -     | 7,578   | Machinery                        |
| -            | 14          | 723      | -                               | 302       | -       | -     | 20               | 2,065    | -     | 3,124   | Transport Equipment              |
| 2,058        | 264         | 694      | -                               | 976       | -       | -     | 677              | 195      | -     | 4,863   | Other manufacturing              |
| -            | -           | -        | -                               | 729       | -       | -     | -                | 48       | -     | 777     | Other energy                     |
| 1            | -           | 1        | -                               | 2,286     | -       | -     | 5                | -        | -     | 2,293   | Construction                     |
| -            | -           | 1,306    | -                               | 30,534    | -       | -     | 394              | 172      | -     | 32,406  | Transport                        |
| -            | -           | -        | -                               | 130       | -       | -     | -                | 172      | -     | 302     | Rail                             |
| -            | -           | 1,306    | -                               | 28,946    | -       | -     | 394              | -        | -     | 30,647  | Road                             |
| -            | -           | -        | -                               | 346       | -       | -     | -                | -        | -     | 346     | Domestic navigation              |
| -            | -           | -        | -                               | 1,111     | -       | -     | -                | -        | -     | 1,111   | Domestic aviation                |
| 417          | -           | 9,141    | -                               | 2,097     | -       | -     | 111              | 5,390    | 1,720 | 18,876  | Residential                      |
| 177          | -           | 3,357    | -                               | 3,916     | -       | 1     | 1,300            | 12,754   | 218   | 21,722  | Commercial Public                |
| Coal         | Natural Gas | City Gas | Crude oil & refinery feedstocks | Petroleum | Nuclear | Hydro | Renewables       | Electric | Heat  | Total   |                                  |
| (Thou. toe)  |             |          |                                 |           |         |       |                  |          |       |         |                                  |

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

## 2-6. 2015년

|          | 석탄 및<br>석탄제품<br>(천톤) | 천연가스<br>(천톤) | 도시가스<br>(백만㎥) | 원유 및 정제원료<br>(천배럴)              | 석유제품<br>(천배럴)   | 원자력<br>(GWh) | 수력<br>(GWh) | 신재생¹<br>(천toe) | 전기<br>(GWh) | 열<br>(천toe) | 합계<br>(천toe) |
|----------|----------------------|--------------|---------------|---------------------------------|-----------------|--------------|-------------|----------------|-------------|-------------|--------------|
| 국내생산     | 1,764                | 144          | -             | 115                             | -               | 164,762      | 2,150       | 7,455          | -           | 125         | 43,798       |
| 수입       | 135,610              | 33,366       | -             | 1,030,315                       | 307,875         | -            | -           | -              | -           | -           | 316,749      |
| 수출       | -23                  | -            | -             | -2,400                          | -477,425        | -            | -           | -              | -           | -           | -66,736      |
| 국제병커링    | -                    | -            | -             | -                               | -93,774         | -            | -           | -              | -           | -           | -14,083      |
| 재고변화     | -1,999               | 207          | -             | -10,774                         | -2,047          | -            | -           | -0             | -           | -           | -2,926       |
| 일차에너지공급  | 135,352              | 33,717       | -             | 1,017,256                       | -265,370        | 164,762      | 2,150       | 7,455          | -           | 125         | 276,803      |
| 제품이동     | -                    | -            | -             | 13,626                          | -14,507         | -            | -           | -              | -           | -           | 624          |
| 통계오차     | 3,038                | -277         | 520           | -757                            | -1,026          | -            | -           | 0              | -           | -           | 1,832        |
| 일차에너지소비  | 138,390              | 33,440       | 520           | 1,030,124                       | -280,904        | 164,762      | 2,150       | 7,455          | -           | 125         | 279,260      |
| 전환공정     | -82,479              | -32,513      | 20,174        | -1,030,109                      | 1,059,280       | -164,762     | -2,146      | -2,622         | 524,566     | 2,325       | -70,650      |
| 발전전용     | -82,479              | -12,336      | -             | -                               | -12,079         | -164,762     | -2,146      | -2,717         | 502,547     | -125        | -62,868      |
| 열병합      | -                    | -3,445       | -497          | -                               | -773            | -            | -           | -250           | 22,019      | 2,255       | -1,234       |
| 열전용      | -                    | -            | -263          | -                               | -767            | -            | -           | -19            | -           | 194         | -221         |
| 석유제품생산   | -                    | -            | -             | -1,030,109                      | 1,073,059       | -            | -           | -              | -           | -           | -6,692       |
| 가스제조     | -                    | -16,732      | 20,933        | -                               | -159            | -            | -           | -              | -           | -           | 0            |
| 석탄합성가스제조 | -                    | -            | -             | -                               | -               | -            | -           | 1              | -           | -           | 1            |
| 기타전환     | -                    | -            | -             | -                               | -               | -            | -           | 363            | -           | -           | 363          |
| 전환자제소비   | -                    | -57          | -267          | -15                             | -43,816         | -            | -           | -              | -36,289     | -           | -8,084       |
| 손실       | -                    | -2           | -             | -                               | -               | -            | -           | -              | -15,831     | -544        | -1,908       |
| 최종소비     | 55,911               | 868          | 20,427        | -                               | 734,560         | -            | 4           | 4,832          | 472,446     | 1,905       | 198,618      |
| 산업       | 54,730               | 868          | 7,228         | -                               | 433,577         | -            | -           | 2,977          | 254,424     | -           | 122,434      |
| 농림어업     | 421                  | -            | 3             | -                               | 10,371          | -            | -           | 88             | 14,645      | -           | 2,994        |
| 광업       | -                    | -            | -             | -                               | 469             | -            | 0           | 0              | 1,631       | -           | 207          |
| 제조업      | 54,304               | 868          | 7,224         | -                               | 406,338         | -            | -           | 2,885          | 238,148     | -           | 116,709      |
| 식품및담배    | 65                   | -            | 672           | -                               | 600             | -            | -           | 137            | 10,485      | -           | 1,861        |
| 섬유및가죽    | 1,640                | -            | 349           | -                               | 604             | -            | -           | 164            | 11,604      | -           | 2,628        |
| 목재및무제품   | -                    | -            | 58            | -                               | 39              | -            | -           | 276            | 1,904       | -           | 506          |
| 제지및인쇄    | 24                   | 9            | 225           | -                               | 241             | -            | -           | 740            | 9,933       | -           | 1,888        |
| 화학및석유화학  | 4,817                | -            | 1,334         | -                               | 383,865         | -            | -           | 301            | 44,326      | -           | 55,394       |
| 비금속광물    | 4,650                | -            | 523           | -                               | 3,537           | -            | -           | 871            | 12,023      | -           | 5,854        |
| 철강       | 37,142               | 662          | 1,108         | -                               | 946             | -            | -           | 7              | 36,998      | -           | 30,122       |
| 비철금속     | 815                  | -            | 335           | -                               | 234             | -            | -           | -              | 9,318       | -           | 1,651        |
| 기계류      | -                    | -            | 977           | -                               | 663             | -            | -           | 1              | 74,325      | -           | 7,500        |
| 수송장비     | -                    | 7            | 721           | -                               | 1,743           | -            | -           | 3              | 24,291      | -           | 3,098        |
| 기타제조     | 5,151                | 191          | 921           | -                               | 8,302           | -            | -           | 385            | 2,392       | -           | 5,346        |
| 기타에너지    | -                    | -            | -             | -                               | 5,563           | -            | -           | -              | 549         | -           | 860          |
| 건설업      | 4                    | -            | 1             | -                               | 16,399          | -            | -           | 5              | -           | -           | 2,524        |
| 수송       | -                    | -            | 1,228         | -                               | 247,511         | -            | -           | 441            | 2,217       | -           | 34,509       |
| 철도       | -                    | -            | -             | -                               | 829             | -            | -           | -              | 2,217       | -           | 309          |
| 도로       | -                    | -            | 1,228         | -                               | 233,419         | -            | -           | 441            | -           | -           | 32,319       |
| 국내해운     | -                    | -            | -             | -                               | 3,808           | -            | -           | -              | -           | -           | 569          |
| 국내항공     | -                    | -            | -             | -                               | 9,456           | -            | -           | -              | -           | -           | 1,313        |
| 가정       | 830                  | -            | 8,754         | -                               | 16,402          | -            | -           | 217            | 63,794      | 1,663       | 18,939       |
| 상업 공공    | 352                  | -            | 3,216         | -                               | 37,070          | -            | 4           | 1,197          | 152,011     | 242         | 22,735       |
|          | Coal                 | Natural Gas  | City Gas      | Crude oil & refinery feedstocks | Petroleum       | Nuclear      | Hydro       | Renewables     | Electric    | Heat        | Total        |
|          | (Thou. Tons)         | (Thou. Tons) | (Mil. Mtr)    | (Thou. Barrels)                 | (Thou. Barrels) | (GWh)        | (GWh)       | (Thou. toe)    | (GWh)       | (Thou. toe) | (Thou. toe)  |

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

| 석탄 및<br>석탄제품 | 천연<br>가스    | 도시<br>가스 | 원유 및<br>정제원료                    | 석유제품      | 원자력     | 수력    | 신재생 <sup>1)</sup> | 전기       | 열     | 합계      |                                  |
|--------------|-------------|----------|---------------------------------|-----------|---------|-------|-------------------|----------|-------|---------|----------------------------------|
| (천toe)       |             |          |                                 |           |         |       |                   |          |       |         |                                  |
| 794          | 188         | -        | 17                              | -         | 34,765  | 454   | 7,455             | -        | 125   | 43,798  | Production                       |
| 84,123       | 43,509      | -        | 150,983                         | 38,134    | -       | -     | -                 | -        | -     | 316,749 | Imports                          |
| -12          | -           | -        | -446                            | -66,278   | -       | -     | -                 | -        | -     | -66,736 | Exports                          |
| -            | -           | -        | -                               | -14,083   | -       | -     | -                 | -        | -     | -14,083 | International Bunkers            |
| -1,255       | 270         | -        | -1,612                          | -328      | -       | -     | -0                | -        | -     | -2,926  | Stock changes                    |
| 83,650       | 43,967      | -        | 148,942                         | -42,554   | 34,765  | 454   | 7,455             | -        | 125   | 276,803 | Total primary energy supply      |
| -            | -           | -        | 2,537                           | -1,913    | -       | -     | -                 | -        | -     | 624     | Transfers                        |
| 1,876        | -362        | 542      | -87                             | -137      | -       | -     | 0                 | -        | -     | 1,832   | Statistical differences          |
| 85,526       | 43,605      | 542      | 151,391                         | -44,604   | 34,765  | 454   | 7,455             | -        | 125   | 279,260 | Total primary energy consumption |
| -50,047      | -42,397     | 21,041   | -151,389                        | 142,545   | -34,765 | -453  | -2,622            | 45,113   | 2,325 | -70,650 | Transformation processes         |
| -50,047      | -16,087     | -        | -                               | -1,893    | -34,765 | -453  | -2,717            | 43,219   | -125  | -62,868 | Electricity-only plants          |
| -            | -4,492      | -518     | -                               | -122      | -       | -     | -250              | 1,894    | 2,255 | -1,234  | CHP plants                       |
| -            | -           | -274     | -                               | -121      | -       | -     | -19               | -        | 194   | -221    | Heat-only plants                 |
| -            | -           | -        | -151,389                        | 144,697   | -       | -     | -                 | -        | -     | -6,692  | Petroleum Products               |
| -            | -           | -        | -                               | -16       | -       | -     | -                 | -        | -     | 0       | Gas manufacturing                |
| -            | -           | 21,834   | -                               | -         | -       | -     | 1                 | -        | -     | 1       | Coal-to-Gas plants               |
| -            | -           | -        | -                               | -         | -       | -     | 363               | -        | -     | 363     | Non-specified Transformation     |
| -            | -           | -        | -                               | -         | -       | -     | -                 | -        | -     | -8,084  | Transformation Own Use           |
| -            | -74         | -278     | -3                              | -4,608    | -       | -     | -                 | -3,121   | -     | -1,908  | Losses                           |
| -            | -2          | -        | -                               | -         | -       | -     | -                 | -1,361   | -544  | -       |                                  |
| 35,479       | 1,132       | 21,305   | -                               | 93,333    | -       | 1     | 4,832             | 40,630   | 1,905 | 198,618 | Total final consumption          |
| 34,940       | 1,132       | 7,539    | -                               | 53,966    | -       | -     | 2,977             | 21,880   | -     | 122,434 | Industry                         |
| 177          | -           | 3        | -                               | 1,467     | -       | -     | 88                | 1,259    | -     | 2,994   | Agriculture/forestry/Fishing     |
| -            | -           | -        | -                               | 67        | -       | -     | 0                 | 140      | -     | 207     | Mining and quarrying             |
| 34,761       | 1,132       | 7,534    | -                               | 49,916    | -       | -     | 2,885             | 20,481   | -     | 116,709 | Manufacturing                    |
| 40           | -           | 701      | -                               | 81        | -       | -     | 137               | 902      | -     | 1,861   | Food and tobacco                 |
| 1,010        | -           | 364      | -                               | 92        | -       | -     | 164               | 998      | -     | 2,628   | Textile and leather              |
| -            | -           | 60       | -                               | 6         | -       | -     | 276               | 164      | -     | 506     | Wood and wood products           |
| 24           | 9           | 225      | -                               | 241       | -       | -     | 740               | 9,933    | -     | 1,888   | Paper, pulp and print            |
| 2,967        | -           | 1,391    | -                               | 46,923    | -       | -     | 301               | 3,812    | -     | 55,394  | Chemical and petrochemical       |
| 2,864        | -           | 546      | -                               | 540       | -       | -     | 871               | 1,034    | -     | 5,854   | Non-metallic minerals            |
| 24,810       | 863         | 1,155    | -                               | 106       | -       | -     | 7                 | 3,182    | -     | 30,122  | Iron and steel                   |
| 469          | -           | 349      | -                               | 31        | -       | -     | -                 | 801      | -     | 1,651   | Non-ferrous metals               |
| -            | -           | 1,020    | -                               | 87        | -       | -     | 1                 | 6,392    | -     | 7,500   | Machinery                        |
| -            | 9           | 752      | -                               | 245       | -       | -     | 3                 | 2,089    | -     | 3,098   | Transport Equipment              |
| 2,586        | 249         | 961      | -                               | 960       | -       | -     | 385               | 206      | -     | 5,346   | Other manufacturing              |
| -            | -           | -        | -                               | 813       | -       | -     | -                 | 47       | -     | 860     | Other energy                     |
| 1            | -           | 1        | -                               | 2,516     | -       | -     | 5                 | -        | -     | 2,524   | Construction                     |
| -            | -           | 1,281    | -                               | 32,596    | -       | -     | 441               | 191      | -     | 34,509  | Transport                        |
| -            | -           | -        | -                               | 119       | -       | -     | -                 | 191      | -     | 309     | Rail                             |
| -            | -           | 1,281    | -                               | 30,597    | -       | -     | 441               | -        | -     | 32,319  | Road                             |
| -            | -           | -        | -                               | 569       | -       | -     | -                 | -        | -     | 569     | Domestic navigation              |
| -            | -           | -        | -                               | 1,313     | -       | -     | -                 | -        | -     | 1,313   | Domestic aviation                |
| 379          | -           | 9,130    | -                               | 2,064     | -       | -     | 217               | 5,486    | 1,663 | 18,939  | Residential                      |
| 161          | -           | 3,355    | -                               | 4,706     | -       | 1     | 1,197             | 13,073   | 242   | 22,735  | Commercial Public                |
| Coal         | Natural Gas | City Gas | Crude oil & refinery feedstocks | Petroleum | Nuclear | Hydro | Renewables        | Electric | Heat  | Total   |                                  |
| (Thou. toe)  |             |          |                                 |           |         |       |                   |          |       |         |                                  |

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

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|          | 석탄 및<br>석탄제품<br>(천톤) | 천연가스<br>(천톤) | 도시가스<br>(백만㎥) | 원유 및 정제원료<br>(천배럴)              | 석유제품<br>(천배럴)   | 원자력<br>(GWh) | 수력<br>(GWh) | 신재생¹<br>(천toe) | 전기<br>(GWh) | 열<br>(천toe) | 합계<br>(천toe) |
|----------|----------------------|--------------|---------------|---------------------------------|-----------------|--------------|-------------|----------------|-------------|-------------|--------------|
| 국내생산     | 1,726                | 118          | -             | 104                             | -               | 161,995      | 2,859       | 8,258          | -           | 117         | 44,106       |
| 수입       | 134,930              | 33,453       | -             | 1,084,066                       | 334,608         | -            | -           | -              | -           | -           | 327,086      |
| 수출       | -1                   | -            | -             | -3,597                          | -487,716        | -            | -           | -              | -           | -           | -68,509      |
| 국제병커링    | -                    | -            | -             | -                               | -105,124        | -            | -           | -              | -           | -           | -15,811      |
| 재고변화     | -879                 | 1,361        | -             | -4,172                          | 2,603           | -            | -           | 3              | -           | -           | 1,176        |
| 일차에너지공급  | 135,775              | 34,933       | -             | 1,076,400                       | -255,629        | 161,995      | 2,859       | 8,261          | -           | 117         | 288,048      |
| 제품이동     | -                    | -            | -             | 11,657                          | -14,036         | -            | -           | -              | -           | -           | 394          |
| 통계오차     | -1,287               | -36          | 303           | -1,635                          | 497             | -            | -           | -0             | -           | -           | -671         |
| 일차에너지소비  | 134,489              | 34,897       | 303           | 1,086,422                       | -269,168        | 161,995      | 2,859       | 8,261          | -           | 117         | 287,770      |
| 전환공정     | -80,713              | -33,404      | 20,798        | -1,085,610                      | 1,098,055       | -161,995     | -2,846      | -2,398         | 536,794     | 2,507       | -70,651      |
| 발전전용     | -80,713              | -12,227      | -             | -                               | -18,500         | -161,995     | -2,846      | -2,550         | 504,257     | -117        | -61,857      |
| 열병합      | -                    | -3,994       | -483          | -                               | -807            | -            | -           | -147           | 32,537      | 2,382       | -807         |
| 열전용      | -                    | -            | -220          | -                               | -1,251          | -            | -           | -18            | -           | 243         | -202         |
| 석유제품생산   | -                    | -            | -             | -1,085,610                      | 1,118,794       | -            | -           | -              | -           | -           | -8,102       |
| 가스제조     | -                    | -17,184      | 21,501        | -                               | -182            | -            | -           | -              | -           | -           | 0            |
| 석탄합성가스제조 | -                    | -            | -             | -                               | -               | -            | -           | 76             | -           | -           | 76           |
| 기타전환     | -                    | -            | -             | -                               | -               | -            | -           | 242            | -           | -           | 242          |
| 전환자제소비   | -                    | -123         | -77           | -812                            | -46,129         | -            | -           | -              | -34,818     | -           | -8,347       |
| 손실       | -                    | -3           | -             | -                               | -               | -            | -           | -              | -17,181     | -549        | -2,030       |
| 최종소비     | 53,775               | 1,367        | 21,024        | -                               | 782,758         | -            | 12          | 5,863          | 484,795     | 2,075       | 206,742      |
| 산업       | 52,619               | 1,367        | 7,149         | -                               | 469,195         | -            | -           | 3,655          | 257,732     | -           | 126,809      |
| 농림어업     | 218                  | -            | 3             | -                               | 9,843           | -            | -           | 155            | 15,397      | -           | 2,959        |
| 광업       | -                    | -            | -             | -                               | 437             | -            | -           | 0              | 1,755       | -           | 212          |
| 제조업      | 52,398               | 1,367        | 7,145         | -                               | 441,087         | -            | -           | 3,491          | 240,580     | -           | 120,881      |
| 식품및담배    | 65                   | -            | 681           | -                               | 614             | -            | -           | 135            | 10,999      | -           | 1,911        |
| 섬유및가죽    | 1,650                | -            | 310           | -                               | 549             | -            | -           | 179            | 11,426      | -           | 2,585        |
| 목재및나무제품  | -                    | -            | 28            | -                               | 33              | -            | -           | 701            | 1,918       | -           | 899          |
| 제지및인쇄    | 26                   | 416          | 247           | -                               | 298             | -            | -           | 726            | 10,014      | -           | 2,445        |
| 화학및석유화학  | 5,390                | -            | 970           | -                               | 417,523         | -            | -           | 602            | 46,099      | -           | 59,559       |
| 비금속광물    | 4,591                | -            | 502           | -                               | 3,820           | -            | -           | 667            | 12,575      | -           | 5,682        |
| 철강       | 35,072               | 751          | 1,142         | -                               | 730             | -            | -           | 4              | 35,159      | -           | 28,856       |
| 비철금속     | 841                  | -            | 291           | -                               | 254             | -            | -           | 0              | 9,986       | -           | 1,680        |
| 기계류      | 170                  | -            | 985           | -                               | 757             | -            | -           | 29             | 75,601      | -           | 7,758        |
| 수송장비     | -                    | 8            | 643           | -                               | 1,862           | -            | -           | 396            | 23,712      | -           | 3,378        |
| 기타제조     | 4,593                | 192          | 1,347         | -                               | 9,251           | -            | -           | 51             | 2,547       | -           | 5,294        |
| 기타에너지    | -                    | -            | -             | -                               | 5,395           | -            | -           | -              | 544         | -           | 835          |
| 건설업      | 3                    | -            | 1             | -                               | 17,829          | -            | -           | 9              | -           | -           | 2,756        |
| 수송       | -                    | -            | 1,217         | -                               | 257,307         | -            | -           | 523            | 2,689       | -           | 36,029       |
| 철도       | -                    | -            | -             | -                               | 725             | -            | -           | -              | 2,689       | -           | 335          |
| 도로       | -                    | -            | 1,217         | -                               | 244,047         | -            | -           | 523            | -           | -           | 33,924       |
| 국내해운     | -                    | -            | -             | -                               | 3,291           | -            | -           | -              | -           | -           | 487          |
| 국내항공     | -                    | -            | -             | -                               | 9,244           | -            | -           | -              | -           | -           | 1,283        |
| 가정       | 792                  | -            | 9,249         | -                               | 18,889          | -            | -           | 299            | 66,173      | 1,771       | 20,150       |
| 상업 공공    | 364                  | -            | 3,408         | -                               | 37,366          | -            | 12          | 1,387          | 158,202     | 304         | 23,754       |
|          | Coal                 | Natural Gas  | City Gas      | Crude oil & refinery feedstocks | Petroleum       | Nuclear      | Hydro       | Renewables     | Electric    | Heat        | Total        |
|          | (Thou. Tons)         | (Thou. Tons) | (Mil. Mtr)    | (Thou. Barrels)                 | (Thou. Barrels) | (GWh)        | (GWh)       | (Thou. toe)    | (GWh)       | (Thou. toe) | (Thou. toe)  |

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

| 석탄 및<br>석탄제품 | 천연<br>가스    | 도시<br>가스 | 원유 및<br>정제원료                    | 석유제품      | 원자력     | 수력    | 신재생 <sup>1</sup> | 전기       | 열     | 합계      |                                  |
|--------------|-------------|----------|---------------------------------|-----------|---------|-------|------------------|----------|-------|---------|----------------------------------|
| (천toe)       |             |          |                                 |           |         |       |                  |          |       |         |                                  |
| 777          | 154         | -        | 15                              | -         | 34,181  | 603   | 8,258            | -        | 117   | 44,106  | Production                       |
| 83,621       | 43,623      | -        | 158,918                         | 40,923    | -       | -     | -                | -        | -     | 327,086 | Imports                          |
| -1           | -           | -        | -670                            | -67,839   | -       | -     | -                | -        | -     | -68,509 | Exports                          |
| -            | -           | -        | -                               | -15,811   | -       | -     | -                | -        | -     | -15,811 | International Bunkers            |
| -408         | 1,775       | -        | -600                            | 406       | -       | -     | 3                | -        | -     | 1,176   | Stock changes                    |
| 83,989       | 45,552      | -        | 157,664                         | -42,320   | 34,181  | 603   | 8,261            | -        | 117   | 288,048 | Total primary energy supply      |
| -            | -           | -        | 2,170                           | -1,777    | -       | -     | -                | -        | -     | 394     | Transfers                        |
| -749         | -47         | 316      | -243                            | 52        | -       | -     | -0               | -        | -     | -671    | Statistical differences          |
| 83,240       | 45,506      | 316      | 159,592                         | -44,046   | 34,181  | 603   | 8,261            | -        | 117   | 287,770 | Total primary energy consumption |
| -48,933      | -43,559     | 21,692   | -159,440                        | 148,098   | -34,181 | -601  | -2,398           | 46,164   | 2,507 | -70,651 | Transformation processes         |
| -48,933      | -15,944     | -        | -                               | -2,898    | -34,181 | -601  | -2,550           | 43,366   | -117  | -61,857 | Electricity-only plants          |
| -            | -5,208      | -504     | -                               | -127      | -       | -     | -147             | 2,798    | 2,382 | -807    | CHP plants                       |
| -            | -           | -229     | -                               | -198      | -       | -     | -18              | -        | 243   | -202    | Heat-only plants                 |
| -            | -           | -        | -159,440                        | 151,338   | -       | -     | -                | -        | -     | -8,102  | Petroleum Products               |
| -            | -22,408     | 22,426   | -                               | -18       | -       | -     | -                | -        | -     | 0       | Gas manufacturing                |
| -            | -           | -        | -                               | -         | -       | -     | 76               | -        | -     | 76      | Coal-to-Gas plants               |
| -            | -           | -        | -                               | -         | -       | -     | 242              | -        | -     | 242     | Non-specified Transformation     |
| -            | -161        | -80      | -151                            | -4,960    | -       | -     | -                | -2,994   | -     | -8,347  | Transformation Own Use           |
| -            | -3          | -        | -                               | -         | -       | -     | -                | -1,478   | -549  | -2,030  | Losses                           |
| 34,307       | 1,783       | 21,928   | -                               | 99,092    | -       | 3     | 5,863            | 41,692   | 2,075 | 206,742 | Total final consumption          |
| 33,780       | 1,783       | 7,456    | -                               | 57,970    | -       | -     | 3,655            | 22,165   | -     | 126,809 | Industry                         |
| 86           | -           | 3        | -                               | 1,392     | -       | -     | 155              | 1,324    | -     | 2,959   | Agriculture/forestry/Fishing     |
| -            | -           | -        | -                               | 61        | -       | -     | 0                | 151      | -     | 212     | Mining and quarrying             |
| 33,694       | 1,783       | 7,452    | -                               | 53,773    | -       | -     | 3,491            | 20,690   | -     | 120,881 | Manufacturing                    |
| 40           | -           | 711      | -                               | 80        | -       | -     | 135              | 946      | -     | 1,911   | Food and tobacco                 |
| 1,017        | -           | 323      | -                               | 83        | -       | -     | 179              | 983      | -     | 2,585   | Textile and leather              |
| -            | -           | 29       | -                               | 5         | -       | -     | 701              | 165      | -     | 899     | Wood and wood products           |
| 26           | 416         | 247      | -                               | 298       | -       | -     | 726              | 10,014   | -     | 2,445   | Paper, pulp and print            |
| 3,320        | -           | 1,012    | -                               | 50,660    | -       | -     | 602              | 3,965    | -     | 59,559  | Chemical and petrochemical       |
| 2,828        | -           | 523      | -                               | 582       | -       | -     | 667              | 1,081    | -     | 5,682   | Non-metallic minerals            |
| 23,578       | 979         | 1,191    | -                               | 80        | -       | -     | 4                | 3,024    | -     | 28,856  | Iron and steel                   |
| 485          | -           | 303      | -                               | 32        | -       | -     | 0                | 859      | -     | 1,680   | Non-ferrous metals               |
| 104          | -           | 1,027    | -                               | 95        | -       | -     | 29               | 6,502    | -     | 7,758   | Machinery                        |
| -            | 11          | 670      | -                               | 261       | -       | -     | 396              | 2,039    | -     | 3,378   | Transport Equipment              |
| 2,305        | 250         | 1,405    | -                               | 1,064     | -       | -     | 51               | 219      | -     | 5,294   | Other manufacturing              |
| -            | -           | -        | -                               | 788       | -       | -     | -                | 47       | -     | 835     | Other energy                     |
| 1            | -           | 1        | -                               | 2,745     | -       | -     | 9                | -        | -     | 2,756   | Construction                     |
| -            | -           | 1,270    | -                               | 34,005    | -       | -     | 523              | 231      | -     | 36,029  | Transport                        |
| -            | -           | -        | -                               | 104       | -       | -     | -                | 231      | -     | 335     | Rail                             |
| -            | -           | 1,270    | -                               | 32,131    | -       | -     | 523              | -        | -     | 33,924  | Road                             |
| -            | -           | -        | -                               | 487       | -       | -     | -                | -        | -     | 487     | Domestic navigation              |
| -            | -           | -        | -                               | 1,283     | -       | -     | -                | -        | -     | 1,283   | Domestic aviation                |
| 361          | -           | 9,647    | -                               | 2,382     | -       | -     | 299              | 5,691    | 1,771 | 20,150  | Residential                      |
| 166          | -           | 3,555    | -                               | 4,734     | -       | 3     | 1,387            | 13,605   | 304   | 23,754  | Commercial/Public                |
| Coal         | Natural Gas | City Gas | Crude oil & refinery feedstocks | Petroleum | Nuclear | Hydro | Renewables       | Electric | Heat  | Total   |                                  |
| (Thou. toe)  |             |          |                                 |           |         |       |                  |          |       |         |                                  |

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

## 2-8. 2017년

|          | 석탄 및<br>석탄제품<br>(천톤) | 천연가스<br>(천톤) | 도시가스<br>(백만㎥) | 원유 및 정제원료<br>(천배럴)              | 석유제품<br>(천배럴)   | 원자력<br>(GWh) | 수력<br>(GWh) | 신재생 <sup>1)</sup><br>(천toe) | 전기<br>(GWh) | 열<br>(천toe) | 합계<br>(천toe) |
|----------|----------------------|--------------|---------------|---------------------------------|-----------------|--------------|-------------|-----------------------------|-------------|-------------|--------------|
| 국내생산     | 1,485                | 261          | -             | 217                             | -               | 148,427      | 2,820       | 9,960                       | -           | 127         | 43,378       |
| 수입       | 148,678              | 37,537       | -             | 1,124,938                       | 314,487         | -            | -           | -                           | -           | -           | 341,836      |
| 수출       | -135                 | -            | -             | -2,447                          | -509,113        | -            | -           | -                           | -           | -           | -71,507      |
| 국제병커링    | -                    | -            | -             | -                               | -103,695        | -            | -           | -                           | -           | -           | -15,564      |
| 재고변화     | -145                 | -598         | -             | -1,633                          | -1,663          | -            | -           | -2                          | -           | -           | -1,423       |
| 일차에너지공급  | 149,883              | 37,200       | -             | 1,121,075                       | -299,983        | 148,427      | 2,820       | 9,959                       | -           | 127         | 296,739      |
| 제품이동     | -                    | -            | -             | 34,286                          | -34,338         | -            | -           | -                           | -           | -           | 2,048        |
| 통계오차     | -2,756               | -824         | 201           | -1,442                          | -383            | -            | -           | -14                         | -           | -           | -2,593       |
| 일차에너지소비  | 147,127              | 36,376       | 201           | 1,153,920                       | -334,705        | 148,427      | 2,820       | 9,944                       | -           | 127         | 296,194      |
| 전환공정     | -91,299              | -34,620      | 22,348        | -1,153,915                      | 1,176,532       | -148,427     | -2,809      | -3,380                      | 549,498     | 2,717       | -72,861      |
| 발전전용     | -91,299              | -12,010      | -             | -                               | -7,042          | -148,427     | -2,809      | -3,731                      | 513,303     | -127        | -61,856      |
| 열병합      | -                    | -4,411       | -513          | -                               | -1,019          | -            | -           | -234                        | 36,194      | 2,691       | -860         |
| 열전용      | -                    | -            | -258          | -                               | -1,184          | -            | -           | -2                          | -           | 154         | -301         |
| 석유제품생산   | -                    | -            | -             | -1,153,915                      | 1,185,996       | -            | -           | -                           | -           | -           | -10,431      |
| 가스제조     | -                    | -18,199      | 23,119        | -                               | -219            | -            | -           | -                           | -           | -           | 0            |
| 석탄합성가스제조 | -                    | -            | -             | -                               | -               | -            | -           | 274                         | -           | -           | 274          |
| 기타전환     | -                    | -            | -             | -                               | -               | -            | -           | 313                         | -           | -           | 313          |
| 전환자제소비   | -                    | -363         | -79           | -5                              | -40,552         | -            | -           | -                           | -35,756     | -           | -8,051       |
| 손실       | -                    | 7            | -             | -                               | -               | -            | -           | -                           | -18,600     | -544        | -2,134       |
| 최종소비     | 55,828               | 1,401        | 22,470        | -                               | 801,275         | -            | 11          | 6,564                       | 495,141     | 2,300       | 213,147      |
| 산업       | 54,856               | 1,401        | 7,729         | -                               | 487,121         | -            | -           | 4,155                       | 264,067     | -           | 131,574      |
| 농림어업     | 198                  | -            | 3             | -                               | 9,173           | -            | -           | 679                         | 15,979      | -           | 3,432        |
| 광업       | -                    | -            | -             | -                               | 395             | -            | -           | 0                           | 1,746       | -           | 205          |
| 제조업      | 54,657               | 1,401        | 7,725         | -                               | 460,469         | -            | -           | 3,462                       | 246,340     | -           | 125,288      |
| 식품및담배    | 48                   | -            | 689           | -                               | 681             | -            | -           | 124                         | 11,282      | -           | 1,919        |
| 섬유및가죽    | 1,907                | -            | 302           | -                               | 693             | -            | -           | 156                         | 11,261      | -           | 2,656        |
| 목재및나무제품  | -                    | -            | 28            | -                               | 29              | -            | -           | 138                         | 1,925       | -           | 337          |
| 제지및인쇄    | -                    | 417          | 245           | -                               | 316             | -            | -           | 717                         | 9,784       | -           | 2,400        |
| 화학및석유화학  | 6,470                | -            | 970           | -                               | 433,460         | -            | -           | 905                         | 47,710      | -           | 62,568       |
| 비금속광물    | 4,175                | -            | 519           | -                               | 3,398           | -            | -           | 658                         | 12,612      | -           | 5,260        |
| 철강       | 36,573               | 793          | 1,203         | -                               | 838             | -            | -           | 4                           | 35,524      | -           | 29,726       |
| 비철금속     | 891                  | -            | 270           | -                               | 274             | -            | -           | 0                           | 9,959       | -           | 1,671        |
| 기계류      | 474                  | -            | 1,055         | -                               | 649             | -            | -           | 194                         | 79,986      | -           | 8,520        |
| 수송장비     | -                    | 12           | 553           | -                               | 1,822           | -            | -           | 477                         | 22,324      | -           | 3,237        |
| 기타제조     | 4,118                | 179          | 1,891         | -                               | 10,342          | -            | -           | 92                          | 3,409       | -           | 5,828        |
| 기타에너지    | -                    | -            | -             | -                               | 7,965           | -            | -           | -                           | 563         | -           | 1,165        |
| 건설업      | 2                    | -            | 1             | -                               | 17,094          | -            | -           | 14                          | -           | -           | 2,648        |
| 수송       | -                    | -            | 1,218         | -                               | 257,708         | -            | -           | 564                         | 2,864       | -           | 36,260       |
| 철도       | -                    | -            | -             | -                               | 703             | -            | -           | -                           | 2,820       | -           | 343          |
| 도로       | -                    | -            | 1,218         | -                               | 244,104         | -            | -           | 564                         | 45          | -           | 34,101       |
| 국내해운     | -                    | -            | -             | -                               | 3,073           | -            | -           | -                           | -           | -           | 453          |
| 국내항공     | -                    | -            | -             | -                               | 9,829           | -            | -           | -                           | -           | -           | 1,363        |
| 가정       | 666                  | -            | 9,950         | -                               | 18,353          | -            | -           | 375                         | 66,517      | 1,955       | 20,927       |
| 상업 공공    | 306                  | -            | 3,573         | -                               | 38,094          | -            | 11          | 1,471                       | 161,693     | 345         | 24,386       |
|          | Coal                 | Natural Gas  | City Gas      | Crude oil & refinery feedstocks | Petroleum       | Nuclear      | Hydro       | Renewables                  | Electric    | Heat        | Total        |
|          | (Thou. Tons)         | (Thou. Tons) | (Mil. Mtr)    | (Thou. Barrels)                 | (Thou. Barrels) | (GWh)        | (GWh)       | (Thou. toe)                 | (GWh)       | (Thou. toe) | (Thou. toe)  |

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원



| 석탄 및<br>석탄제품 | 천연<br>가스       | 도시<br>가스 | 원유 및<br>정제원료                          | 석유제품      | 원자력     | 수력    | 신재생 <sup>1</sup> | 전기       | 열     | 합계      |                                  |
|--------------|----------------|----------|---------------------------------------|-----------|---------|-------|------------------|----------|-------|---------|----------------------------------|
| (천toe)       |                |          |                                       |           |         |       |                  |          |       |         |                                  |
| 702          | 341            | -        | 32                                    | -         | 31,615  | 601   | 9,960            | -        | 127   | 43,378  | Production                       |
| 89,227       | 49,023         | -        | 165,241                               | 38,344    | -       | -     | -                | -        | -     | 341,836 | Imports                          |
| -86          | -              | -        | -455                                  | -70,965   | -       | -     | -                | -        | -     | -71,507 | Exports                          |
| -            | -              | -        | -                                     | -15,564   | -       | -     | -                | -        | -     | -15,564 | International Bankers            |
| -57          | -800           | -        | -295                                  | -269      | -       | -     | -2               | -        | -     | -1,423  | Stock changes                    |
| 89,786       | 48,583         | -        | 164,522                               | -48,454   | 31,615  | 601   | 9,959            | -        | 127   | 296,739 | Total primary energy supply      |
| -            | -              | -        | 6,384                                 | -4,336    | -       | -     | -                | -        | -     | 2,048   | Transfers                        |
| -1,458       | -1,076         | 207      | -208                                  | -44       | -       | -     | -14              | -        | -     | -2,593  | Statistical differences          |
| 88,328       | 47,508         | 207      | 170,698                               | -52,834   | 31,615  | 601   | 9,944            | -        | 127   | 296,194 | Total primary energy consumption |
| -53,157      | -45,214        | 22,996   | -170,698                              | 158,831   | -31,615 | -598  | -3,380           | 47,257   | 2,717 | -72,861 | Transformation processes         |
| -53,157      | -15,685        | -        | -                                     | -1,087    | -31,615 | -598  | -3,731           | 44,144   | -127  | -61,856 | Electricity-only plants          |
| -            | -5,761         | -528     | -                                     | -141      | -       | -     | -234             | 3,113    | 2,691 | -860    | CHP plants                       |
| -            | -              | -266     | -                                     | -187      | -       | -     | -2               | -        | 154   | -301    | Heat-only plants                 |
| -            | -              | -        | -170,698                              | 160,267   | -       | -     | -                | -        | -     | -10,431 | Petroleum Products               |
| -            | -23,768        | 23,789   | -                                     | -21       | -       | -     | -                | -        | -     | 0       | Gas manufacturing                |
| -            | -              | -        | -                                     | -         | -       | -     | 274              | -        | -     | 274     | Coal-to-Gas plants               |
| -            | -              | -        | -                                     | -         | -       | -     | 313              | -        | -     | 313     | Non-specified Transformation     |
| -            | -474           | -81      | -1                                    | -4,420    | -       | -     | -                | -3,075   | -     | -8,051  | Transformation Own Use           |
| -            | 9              | -        | -                                     | -         | -       | -     | -                | -1,600   | -544  | -2,134  | Losses                           |
| 35,171       | 1,829          | 23,122   | -                                     | 101,576   | -       | 2     | 6,564            | 42,582   | 2,300 | 213,147 | Total final consumption          |
| 34,710       | 1,829          | 7,953    | -                                     | 60,217    | -       | -     | 4,155            | 22,710   | -     | 131,574 | Industry                         |
| 78           | -              | 3        | -                                     | 1,298     | -       | -     | 679              | 1,374    | -     | 3,432   | Agriculture/forestry/Fishing     |
| -            | -              | -        | -                                     | 55        | -       | -     | 0                | 150      | -     | 205     | Mining and quarrying             |
| 34,631       | 1,829          | 7,949    | -                                     | 56,230    | -       | -     | 3,462            | 21,185   | -     | 125,288 | Manufacturing                    |
| 29           | -              | 709      | -                                     | 88        | -       | -     | 124              | 970      | -     | 1,919   | Food and tobacco                 |
| 1,129        | -              | 310      | -                                     | 93        | -       | -     | 156              | 968      | -     | 2,656   | Textile and leather              |
| -            | -              | 29       | -                                     | 4         | -       | -     | 138              | 166      | -     | 337     | Wood and wood products           |
| -            | 417            | 245      | -                                     | 316       | -       | -     | 717              | 9,784    | -     | 2,400   | Paper, pulp and print            |
| 3,830        | -              | 998      | -                                     | 52,732    | -       | -     | 905              | 4,103    | -     | 62,568  | Chemical and petrochemical       |
| 2,472        | -              | 534      | -                                     | 512       | -       | -     | 658              | 1,085    | -     | 5,260   | Non-metallic minerals            |
| 24,304       | 1,036          | 1,238    | -                                     | 90        | -       | -     | 4                | 3,055    | -     | 29,726  | Iron and steel                   |
| 503          | -              | 278      | -                                     | 34        | -       | -     | 0                | 857      | -     | 1,671   | Non-ferrous metals               |
| 281          | -              | 1,086    | -                                     | 81        | -       | -     | 194              | 6,879    | -     | 8,520   | Machinery                        |
| -            | 15             | 569      | -                                     | 256       | -       | -     | 477              | 1,920    | -     | 3,237   | Transport Equipment              |
| 2,083        | 234            | 1,946    | -                                     | 1,181     | -       | -     | 92               | 293      | -     | 5,828   | Other manufacturing              |
| -            | -              | -        | -                                     | 1,117     | -       | -     | -                | 48       | -     | 1,165   | Other energy                     |
| 1            | -              | 1        | -                                     | 2,633     | -       | -     | 14               | -        | -     | 2,648   | Construction                     |
| -            | -              | 1,253    | -                                     | 34,196    | -       | -     | 564              | 246      | -     | 36,260  | Transport                        |
| -            | -              | -        | -                                     | 101       | -       | -     | -                | 242      | -     | 343     | Rail                             |
| -            | -              | 1,253    | -                                     | 32,279    | -       | -     | 564              | 4        | -     | 34,101  | Road                             |
| -            | -              | -        | -                                     | 453       | -       | -     | -                | -        | -     | 453     | Domestic navigation              |
| -            | -              | -        | -                                     | 1,363     | -       | -     | -                | -        | -     | 1,363   | Domestic aviation                |
| 316          | -              | 10,238   | -                                     | 2,323     | -       | -     | 375              | 5,720    | 1,955 | 20,927  | Residential                      |
| 145          | -              | 3,677    | -                                     | 4,841     | -       | 2     | 1,471            | 13,906   | 345   | 24,386  | Commercial Public                |
| Coal         | Natural<br>Gas | City Gas | Crude oil<br>& refinery<br>feedstocks | Petroleum | Nuclear | Hydro | Renewables       | Electric | Heat  | Total   |                                  |
| (Thou. toe)  |                |          |                                       |           |         |       |                  |          |       |         |                                  |

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

## 2-9. 2018년

|          | 석탄 및<br>석탄제품<br>(천톤) | 천연가스<br>(천톤) | 도시가스<br>(백만㎥) | 원유 및 정제원료<br>(천배럴)              | 석유제품<br>(천배럴)   | 원자력<br>(GWh) | 수력<br>(GWh) | 신재생¹<br>(천toe) | 전기<br>(GWh) | 열<br>(천toe) | 합계<br>(천toe) |
|----------|----------------------|--------------|---------------|---------------------------------|-----------------|--------------|-------------|----------------|-------------|-------------|--------------|
| 국내생산     | 1,202                | 234          | -             | 189                             | -               | 133,505      | 3,374       | 11,008         | -           | 68          | 41,133       |
| 수입       | 149,170              | 44,015       | -             | 1,126,403                       | 341,628         | -            | -           | -              | -           | -           | 354,195      |
| 수출       | -70                  | -            | -             | -4,124                          | -531,563        | -            | -           | -              | -           | -           | -74,876      |
| 국재병커링    | -                    | -            | -             | -                               | -102,293        | -            | -           | -              | -           | -           | -15,307      |
| 재고변화     | 1,426                | -2,066       | -             | -8,626                          | -10,905         | -            | -           | 2              | -           | -           | -4,391       |
| 일차에너지공급  | 151,728              | 42,193       | -             | 1,113,842                       | -303,132        | 133,505      | 3,374       | 11,009         | -           | 68          | 300,754      |
| 제품이동     | -                    | -            | -             | 63,333                          | -64,154         | -            | -           | -              | -           | -           | 3,669        |
| 통계오차     | -45                  | 76           | 240           | -1,899                          | 83              | -            | -           | 0              | -           | -           | 52           |
| 일차에너지소비  | 151,683              | 42,269       | 240           | 1,175,276                       | -367,203        | 133,505      | 3,374       | 11,009         | -           | 68          | 304,474      |
| 전환공정     | -95,281              | -39,988      | 24,035        | -1,175,276                      | 1,197,091       | -133,505     | -3,359      | -3,969         | 566,889     | 2,891       | -78,392      |
| 발전전용     | -95,281              | -14,802      | -             | -                               | -8,016          | -133,505     | -3,359      | -4,525         | 519,856     | -68         | -65,189      |
| 열병합      | -                    | -5,562       | -689          | -                               | -591            | -            | -           | -174           | 47,033      | 2,797       | -1,388       |
| 열전용      | -                    | -            | -288          | -                               | -1,099          | -            | -           | -10            | -           | 163         | -317         |
| 석유제품생산   | -                    | -            | -             | -1,175,276                      | 1,207,900       | -            | -           | -              | -           | -           | -12,237      |
| 가스제조     | -                    | -19,624      | 25,011        | -                               | -1,103          | -            | -           | -              | -           | -           | -0           |
| 석탄합성가스제조 | -                    | -            | -             | -                               | -               | -            | -           | 363            | -           | -           | 363          |
| 기타전환     | -                    | -            | -             | -                               | -               | -            | -           | 376            | -           | -           | 376          |
| 전환차계소비   | -                    | -919         | -1,152        | -                               | -41,677         | -            | -           | -              | -35,645     | -           | -9,710       |
| 손실       | -                    | 5            | -             | -                               | -               | -            | -           | -              | -18,002     | -425        | -1,966       |
| 최종소비     | 56,401               | 1,367        | 23,123        | -                               | 788,210         | -            | 15          | 7,040          | 513,242     | 2,535       | 214,407      |
| 산업       | 55,585               | 1,367        | 7,621         | -                               | 478,445         | -            | -           | 4,281          | 270,798     | 0           | 131,130      |
| 농림어업     | 170                  | -            | 3             | -                               | 8,747           | -            | -           | 671            | 17,126      | 0           | 3,449        |
| 광업       | -                    | -            | -             | -                               | 396             | -            | -           | 0              | 1,478       | -           | 182          |
| 제조업      | 55,413               | 1,367        | 7,618         | -                               | 453,271         | -            | -           | 3,597          | 252,193     | -           | 125,020      |
| 식품및담배    | -                    | -            | 773           | -                               | 737             | -            | -           | 117            | 11,950      | -           | 2,037        |
| 섬유및가죽    | 1,831                | -            | 240           | -                               | 455             | -            | -           | 181            | 10,835      | -           | 2,507        |
| 목재및나무제품  | -                    | -            | 51            | -                               | 25              | -            | -           | 90             | 1,875       | -           | 308          |
| 제지및인쇄    | -                    | 398          | 253           | -                               | 314             | -            | -           | 711            | 9,637       | -           | 2,364        |
| 화학및석유화학  | 6,277                | -            | 1,938         | -                               | 428,496         | -            | -           | 1,405          | 49,256      | -           | 63,289       |
| 비금속광물    | 3,709                | -            | 533           | -                               | 3,507           | -            | -           | 633            | 12,147      | -           | 4,956        |
| 철강       | 37,168               | 780          | 1,204         | -                               | 619             | -            | -           | 4              | 34,852      | -           | 29,928       |
| 비철금속     | 897                  | -            | 386           | -                               | 290             | -            | -           | -              | 10,172      | -           | 1,815        |
| 기계류      | 254                  | -            | 1,173         | -                               | 634             | -            | -           | 253            | 84,862      | -           | 8,987        |
| 수송장비     | -                    | 9            | 744           | -                               | 1,472           | -            | -           | 65             | 21,804      | -           | 2,924        |
| 기타제조     | 5,277                | 180          | 321           | -                               | 10,323          | -            | -           | 138            | 4,218       | -           | 4,918        |
| 기타에너지    | -                    | -            | -             | -                               | 6,400           | -            | -           | -              | 585         | -           | 988          |
| 건설업      | 1                    | -            | 0             | -                               | 16,031          | -            | -           | 14             | -           | -           | 2,478        |
| 수송       | -                    | -            | 1,203         | -                               | 256,066         | -            | -           | 686            | 3,080       | -           | 36,227       |
| 철도       | -                    | -            | -             | -                               | 699             | -            | -           | -              | 2,968       | -           | 356          |
| 도로       | -                    | -            | 1,203         | -                               | 242,977         | -            | -           | 686            | 112         | -           | 34,133       |
| 국내해운     | -                    | -            | -             | -                               | 2,345           | -            | -           | -              | -           | -           | 345          |
| 국내항공     | -                    | -            | -             | -                               | 10,045          | -            | -           | -              | -           | -           | 1,393        |
| 가정       | 560                  | -            | 10,593        | -                               | 18,477          | -            | -           | 417            | 70,687      | 2,125       | 22,122       |
| 상업 공공    | 257                  | -            | 3,704         | -                               | 35,222          | -            | 15          | 1,656          | 168,677     | 410         | 24,929       |
|          | Coal                 | Natural Gas  | City Gas      | Crude oil & refinery feedstocks | Petroleum       | Nuclear      | Hydro       | Renewables     | Electric    | Heat        | Total        |
|          | (Thou. Tons)         | (Thou. Tons) | (Mil. Mtr)    | (Thou. Barrels)                 | (Thou. Barrels) | (GWh)        | (GWh)       | (Thou. toe)    | (GWh)       | (Thou. toe) | (Thou. toe)  |

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원



| 석탄 및<br>석탄제품 | 천연<br>가스       | 도시<br>가스 | 원유 및<br>정제원료                          | 석유제품      | 원자력     | 수력    | 신재생 <sup>1</sup> | 전기       | 열     | 합계      |                                  |
|--------------|----------------|----------|---------------------------------------|-----------|---------|-------|------------------|----------|-------|---------|----------------------------------|
| (천toe)       |                |          |                                       |           |         |       |                  |          |       |         |                                  |
| 569          | 305            | -        | 28                                    | -         | 28,437  | 719   | 11,008           | -        | 68    | 41,133  | Production                       |
| 89,484       | 57,484         | -        | 165,588                               | 41,639    | -       | -     | -                | -        | -     | 354,195 | Imports                          |
| -47          | -              | -        | -764                                  | -74,065   | -       | -     | -                | -        | -     | -74,876 | Exports                          |
| -            | -              | -        | -                                     | -15,307   | -       | -     | -                | -        | -     | -15,307 | International Bunkers            |
| 959          | -2,685         | -        | -1,272                                | -1,396    | -       | -     | 2                | -        | -     | -4,391  | Stock changes                    |
| 90,965       | 55,105         | -        | 163,580                               | -49,129   | 28,437  | 719   | 11,009           | -        | 68    | 300,754 | Total primary energy supply      |
| -            | -              | -        | 11,793                                | -8,124    | -       | -     | -                | -        | -     | 3,669   | Transfers                        |
| -3           | 99             | 247      | -286                                  | -5        | -       | -     | 0                | -        | -     | 52      | Statistical differences          |
| 90,962       | 55,204         | 247      | 175,087                               | -57,258   | 28,437  | 719   | 11,009           | -        | 68    | 304,474 | Total primary energy consumption |
| -55,585      | -52,225        | 24,732   | -175,087                              | 161,251   | -28,437 | -716  | -3,969           | 48,752   | 2,891 | -78,392 | Transformation processes         |
| -55,585      | -19,332        | -        | -                                     | -1,235    | -28,437 | -716  | -4,525           | 44,708   | -68   | -65,189 | Electricity-only plants          |
| -            | -7,264         | -709     | -                                     | -83       | -       | -     | -174             | 4,045    | 2,797 | -1,388  | CHP plants                       |
| -            | -              | -296     | -                                     | -174      | -       | -     | -10              | -        | 163   | -317    | Heat-only plants                 |
| -            | -              | -        | -175,087                              | 162,850   | -       | -     | -                | -        | -     | -12,237 | Petroleum Products               |
| -            | -25,629        | 25,736   | -                                     | -107      | -       | -     | -                | -        | -     | -0      | Gas manufacturing                |
| -            | -              | -        | -                                     | -         | -       | -     | 363              | -        | -     | 363     | Coal-to-Gas plants               |
| -            | -              | -        | -                                     | -         | -       | -     | 376              | -        | -     | 376     | Non-specified Transformation     |
| -            | -1,200         | -1,185   | -                                     | -4,259    | -       | -     | -3,065           | -        | -     | -9,710  | Transformation Own Use           |
| -            | 7              | -        | -                                     | -         | -       | -     | -1,548           | -425     | -     | -1,966  | Losses                           |
| 35,377       | 1,785          | 23,793   | -                                     | 99,734    | -       | 3     | 7,040            | 44,139   | 2,535 | 214,407 | Total final consumption          |
| 34,989       | 1,785          | 7,842    | -                                     | 58,942    | -       | -     | 4,281            | 23,289   | 0     | 131,130 | Industry                         |
| 67           | -              | 4        | -                                     | 1,235     | -       | -     | 671              | 1,473    | 0     | 3,449   | Agriculture/forestry/Fishing     |
| -            | -              | -        | -                                     | 55        | -       | -     | 0                | 127      | -     | 182     | Mining and quarrying             |
| 34,922       | 1,785          | 7,839    | -                                     | 55,188    | -       | -     | 3,597            | 21,689   | -     | 125,020 | Manufacturing                    |
| -            | -              | 796      | -                                     | 96        | -       | -     | 117              | 1,028    | -     | 2,037   | Food and tobacco                 |
| 1,084        | -              | 247      | -                                     | 63        | -       | -     | 181              | 932      | -     | 2,507   | Textile and leather              |
| -            | -              | 53       | -                                     | 4         | -       | -     | 90               | 161      | -     | 308     | Wood and wood products           |
| -            | 398            | 253      | -                                     | 314       | -       | -     | 711              | 9,637    | -     | 2,364   | Paper, pulp and print            |
| 3,716        | -              | 1,994    | -                                     | 51,937    | -       | -     | 1,405            | 4,236    | -     | 63,289  | Chemical and petrochemical       |
| 2,196        | -              | 549      | -                                     | 534       | -       | -     | 633              | 1,045    | -     | 4,956   | Non-metallic minerals            |
| 24,601       | 1,019          | 1,239    | -                                     | 68        | -       | -     | 4                | 2,997    | -     | 29,928  | Iron and steel                   |
| 505          | -              | 397      | -                                     | 38        | -       | -     | -                | 875      | -     | 1,815   | Non-ferrous metals               |
| 151          | -              | 1,207    | -                                     | 78        | -       | -     | 253              | 7,298    | -     | 8,987   | Machinery                        |
| -            | 12             | 766      | -                                     | 206       | -       | -     | 65               | 1,875    | -     | 2,924   | Transport Equipment              |
| 2,670        | 235            | 330      | -                                     | 1,182     | -       | -     | 138              | 363      | -     | 4,918   | Other manufacturing              |
| -            | -              | -        | -                                     | 938       | -       | -     | -                | 50       | -     | 988     | Other energy                     |
| 1            | -              | 0        | -                                     | 2,464     | -       | -     | 14               | -        | -     | 2,478   | Construction                     |
| -            | -              | 1,238    | -                                     | 34,038    | -       | -     | 686              | 265      | -     | 36,227  | Transport                        |
| -            | -              | -        | -                                     | 100       | -       | -     | -                | 255      | -     | 356     | Rail                             |
| -            | -              | 1,238    | -                                     | 32,199    | -       | -     | 686              | 10       | -     | 34,133  | Road                             |
| -            | -              | -        | -                                     | 345       | -       | -     | -                | -        | -     | 345     | Domestic navigation              |
| -            | -              | -        | -                                     | 1,393     | -       | -     | -                | -        | -     | 1,393   | Domestic aviation                |
| 265          | -              | 10,901   | -                                     | 2,335     | -       | -     | 417              | 6,079    | 2,125 | 22,122  | Residential                      |
| 122          | -              | 3,812    | -                                     | 4,419     | -       | 3     | 1,656            | 14,506   | 410   | 24,929  | Commercial Public                |
| Coal         | Natural<br>Gas | City Gas | Crude oil<br>& refinery<br>feedstocks | Petroleum | Nuclear | Hydro | Renewables       | Electric | Heat  | Total   |                                  |
| (Thou. toe)  |                |          |                                       |           |         |       |                  |          |       |         |                                  |

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

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|          | 석탄 및<br>석탄제품<br>(천톤) | 천연가스<br>(천톤) | 도시가스<br>(백만㎥) | 원유 및 정제원료<br>(천배럴)              | 석유제품<br>(천배럴)   | 원자력<br>(GWh) | 수력<br>(GWh) | 신재생 및<br>기타¹<br>(천toe) | 전기<br>(GWh) | 열<br>(천toe) | 합계<br>(천toe) |
|----------|----------------------|--------------|---------------|---------------------------------|-----------------|--------------|-------------|------------------------|-------------|-------------|--------------|
| 국내생산     | 1,084                | 198          | -             | 155                             | -               | 145,910      | 2,791       | 11,544                 | -           | 66          | 44,078       |
| 수입       | 141,792              | 40,748       | -             | 1,075,973                       | 352,147         | -            | -           | -                      | -           | -           | 338,899      |
| 수출       | -17                  | -            | -             | -769                            | -522,099        | -            | -           | -                      | -           | -           | -72,524      |
| 국제병커링    | -                    | -            | -             | -                               | -94,656         | -            | -           | -                      | -           | -           | -14,056      |
| 재고변화     | -1,631               | 317          | -             | 5,758                           | 8,063           | -            | -           | -2                     | -           | -           | 1,232        |
| 일차에너지공급  | 141,228              | 41,264       | -             | 1,081,117                       | -256,545        | 145,910      | 2,791       | 11,541                 | -           | 66          | 297,629      |
| 제품이동     | -                    | -            | -             | 92,390                          | -93,168         | -            | -           | -                      | -           | -           | 5,345        |
| 통계오차     | 401                  | -274         | 477           | -14,500                         | -1,102          | -            | -           | 2                      | -           | -           | -1,457       |
| 일차에너지소비  | 141,628              | 40,990       | 477           | 1,159,008                       | -350,815        | 145,910      | 2,791       | 11,544                 | -           | 66          | 301,516      |
| 전환공정     | -87,762              | -38,038      | 22,792        | -1,159,008                      | 1,188,706       | -145,910     | -2,789      | -5,035                 | 559,744     | 3,095       | -77,349      |
| 발전전용     | -87,762              | -14,016      | -             | -                               | -5,287          | -145,910     | -2,789      | -5,492                 | 513,686     | -66         | -63,843      |
| 열병합      | -                    | -5,390       | -432          | -                               | -397            | -            | -           | -227                   | 46,058      | 2,920       | -883         |
| 열전용      | -                    | -            | -256          | -                               | -1,711          | -            | -           | -24                    | -           | 241         | -272         |
| 석유제품생산   | -                    | -            | -             | -1,159,008                      | 1,196,345       | -            | -           | -                      | -           | -           | -12,860      |
| 가스제조     | -                    | -18,633      | 23,671        | -                               | -243            | -            | -           | -                      | -           | -           | 0            |
| 석탄합성가스제조 | -                    | -            | -             | -                               | -               | -            | -           | 220                    | -           | -           | 220          |
| 가다전환     | -                    | -            | -192          | -                               | -               | -            | -           | 487                    | -           | -           | 290          |
| 전환자재소비   | -                    | -1,479       | -825          | -                               | -41,759         | -            | -           | -                      | -36,061     | -           | -9,939       |
| 손실       | -                    | 3            | -             | -                               | -               | -            | -           | -                      | -16,381     | -690        | -2,095       |
| 최종소비     | 53,866               | 1,475        | 22,444        | -                               | 796,132         | -            | 2           | 6,508                  | 507,302     | 2,471       | 212,132      |
| 산업       | 53,221               | 1,475        | 7,475         | -                               | 483,878         | -            | -           | 3,990                  | 266,573     | 0           | 129,609      |
| 농림어업     | 64                   | -            | 4             | -                               | 9,846           | -            | -           | 164                    | 17,305      | 0           | 3,065        |
| 광업       | -                    | -            | -             | -                               | 401             | -            | -           | 0                      | 1,493       | -           | 184          |
| 제조업      | 53,156               | 1,475        | 7,470         | -                               | 457,806         | -            | -           | 3,792                  | 247,775     | -           | 123,894      |
| 식품및담배    | -                    | -            | 785           | -                               | 554             | -            | -           | 75                     | 12,232      | -           | 2,004        |
| 섬유및가죽    | 1,682                | -            | 258           | -                               | 266             | -            | -           | 161                    | 9,936       | -           | 2,315        |
| 목재및무제품   | -                    | -            | 26            | -                               | 29              | -            | -           | 109                    | 1,735       | -           | 289          |
| 제지및인쇄    | -                    | 440          | 290           | -                               | 227             | -            | -           | 665                    | 9,421       | -           | 2,379        |
| 화학및석유화학  | 5,751                | -            | 1,743         | -                               | 432,146         | -            | -           | 1,186                  | 49,012      | -           | 62,695       |
| 비금속광물    | 3,989                | -            | 561           | -                               | 4,047           | -            | -           | 700                    | 11,724      | -           | 5,281        |
| 철강       | 36,407               | 845          | 1,198         | -                               | 730             | -            | -           | 11                     | 32,617      | -           | 29,405       |
| 비철금속     | 892                  | -            | 367           | -                               | 282             | -            | -           | -                      | 9,546       | -           | 1,738        |
| 기계류      | 449                  | -            | 1,215         | -                               | 633             | -            | -           | 364                    | 84,842      | -           | 9,254        |
| 수송장비     | -                    | 13           | 677           | -                               | 1,543           | -            | -           | 59                     | 21,853      | -           | 2,866        |
| 기타제조     | 3,987                | 176          | 351           | -                               | 10,620          | -            | -           | 418                    | 4,283       | -           | 4,598        |
| 기타에너지    | -                    | -            | -             | -                               | 6,730           | -            | -           | 46                     | 575         | -           | 1,070        |
| 건설업      | 0                    | -            | 0             | -                               | 15,826          | -            | -           | 34                     | -           | -           | 2,467        |
| 수송       | -                    | -            | 1,181         | -                               | 263,189         | -            | -           | 685                    | 3,156       | -           | 37,193       |
| 철도       | -                    | -            | -             | -                               | 664             | -            | -           | -                      | 2,909       | -           | 346          |
| 도로       | -                    | -            | 1,181         | -                               | 249,929         | -            | -           | 685                    | 248         | -           | 35,074       |
| 국내해운     | -                    | -            | -             | -                               | 2,750           | -            | -           | -                      | -           | -           | 409          |
| 국내항공     | -                    | -            | -             | -                               | 9,845           | -            | -           | -                      | -           | -           | 1,365        |
| 가정       | 590                  | -            | 10,194        | -                               | 17,196          | -            | -           | 510                    | 70,455      | 2,080       | 21,560       |
| 상업 공공    | 56                   | -            | 3,604         | -                               | 31,868          | -            | 2           | 1,323                  | 167,118     | 391         | 23,770       |
|          | Coal                 | Natural Gas  | City Gas      | Crude oil & refinery feedstocks | Petroleum       | Nuclear      | Hydro       | Renewables & others¹   | Electric    | Heat        | Total        |
|          | (Thou. Tons)         | (Thou. Tons) | (Mil. Mtr)    | (Thou. Barrels)                 | (Thou. Barrels) | (GWh)        | (GWh)       | (Thou. toe)            | (GWh)       | (Thou. toe) | (Thou. toe)  |

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

| 석탄 및<br>석탄제품 | 천연<br>가스       | 도시<br>가스 | 원유 및<br>정제원료                       | 석유제품      | 원자력     | 수력    | 신재생 및<br>기타 <sup>1</sup>            | 전기       | 열     | 합계      |                                  |
|--------------|----------------|----------|------------------------------------|-----------|---------|-------|-------------------------------------|----------|-------|---------|----------------------------------|
| (천toe)       |                |          |                                    |           |         |       |                                     |          |       |         |                                  |
| 513          | 259            | -        | 23                                 | -         | 31,079  | 594   | 11,544                              | -        | 66    | 44,078  | Production                       |
| 85,586       | 53,217         | -        | 157,965                            | 42,140    | -       | -     | -                                   | -        | -     | 338,899 | Imports                          |
| -12          | -              | -        | -138                               | -72,374   | -       | -     | -                                   | -        | -     | -72,524 | Exports                          |
| -            | -              | -        | -                                  | -14,056   | -       | -     | -                                   | -        | -     | -14,056 | International Bunkers            |
| -1,039       | 415            | -        | 815                                | 1,044     | -       | -     | -2                                  | -        | -     | 1,232   | Stock changes                    |
| 85,048       | 53,891         | -        | 158,655                            | -43,245   | 31,079  | 594   | 11,541                              | -        | 66    | 297,629 | Total primary energy supply      |
| -            | -              | -        | 17,203                             | -11,858   | -       | -     | -                                   | -        | -     | 5,345   | Transfers                        |
| 689          | -358           | 490      | -2,132                             | -149      | -       | -     | 2                                   | -        | -     | -1,457  | Statistical differences          |
| 85,737       | 53,533         | 490      | 173,726                            | -55,253   | 31,079  | 594   | 11,544                              | -        | 66    | 301,516 | Total primary energy consumption |
| -51,690      | -49,678        | 23,452   | -173,726                           | 159,768   | -31,079 | -594  | -5,035                              | 48,138   | 3,095 | -77,349 | Transformation processes         |
| -51,690      | -18,304        | -        | -                                  | -795      | -31,079 | -594  | -5,492                              | 44,177   | -66   | -63,843 | Electricity-only plants          |
| -            | -7,040         | -445     | -                                  | -53       | -       | -     | -227                                | 3,961    | 2,920 | -883    | CHP plants                       |
| -            | -              | -263     | -                                  | -226      | -       | -     | -24                                 | -        | 241   | -272    | Heat-only plants                 |
| -            | -              | -        | -173,726                           | 160,866   | -       | -     | -                                   | -        | -     | -12,860 | Petroleum Products               |
| -            | -              | -        | -                                  | -24       | -       | -     | -                                   | -        | -     | 0       | Gas manufacturing                |
| -            | -              | -        | -                                  | -         | -       | -     | 220                                 | -        | -     | 220     | Coal-to-Gas plants               |
| -            | -              | -197     | -                                  | -         | -       | -     | 487                                 | -        | -     | 290     | Non-specified Transformation     |
| -            | -1,931         | -849     | -                                  | -4,059    | -       | -     | -                                   | -3,101   | -     | -9,939  | Transformation Own Use           |
| -            | 4              | -        | -                                  | -         | -       | -     | -                                   | -1,409   | -690  | -2,095  | Losses                           |
| 34,046       | 1,927          | 23,094   | -                                  | 100,457   | -       | 1     | 6,508                               | 43,628   | 2,471 | 212,132 | Total final consumption          |
| 33,740       | 1,927          | 7,692    | -                                  | 59,336    | -       | -     | 3,990                               | 22,925   | 0     | 129,609 | Industry                         |
| 16           | -              | 4        | -                                  | 1,392     | -       | -     | 164                                 | 1,488    | 0     | 3,065   | Agriculture/forestry/Fishing     |
| -            | -              | -        | -                                  | 55        | -       | -     | 0                                   | 128      | -     | 184     | Mining and quarrying             |
| 33,724       | 1,927          | 7,687    | -                                  | 55,456    | -       | -     | 3,792                               | 21,309   | -     | 123,894 | Manufacturing                    |
| -            | -              | 807      | -                                  | 70        | -       | -     | 75                                  | 1,052    | -     | 2,004   | Food and tobacco                 |
| 996          | -              | 265      | -                                  | 38        | -       | -     | 161                                 | 854      | -     | 2,315   | Textile and leather              |
| -            | -              | 27       | -                                  | 4         | -       | -     | 109                                 | 149      | -     | 289     | Wood and wood products           |
| -            | 440            | 290      | -                                  | 227       | -       | -     | 665                                 | 9,421    | -     | 2,379   | Paper, pulp and print            |
| 3,405        | -              | 1,794    | -                                  | 52,096    | -       | -     | 1,186                               | 4,215    | -     | 62,695  | Chemical and petrochemical       |
| 2,361        | -              | 578      | -                                  | 635       | -       | -     | 700                                 | 1,008    | -     | 5,281   | Non-metallic minerals            |
| 24,176       | 1,104          | 1,232    | -                                  | 76        | -       | -     | 11                                  | 2,805    | -     | 29,405  | Iron and steel                   |
| 503          | -              | 378      | -                                  | 37        | -       | -     | -                                   | 821      | -     | 1,738   | Non-ferrous metals               |
| 266          | -              | 1,250    | -                                  | 78        | -       | -     | 364                                 | 7,296    | -     | 9,254   | Machinery                        |
| -            | 18             | 697      | -                                  | 214       | -       | -     | 59                                  | 1,879    | -     | 2,866   | Transport Equipment              |
| 2,017        | 230            | 361      | -                                  | 1,203     | -       | -     | 418                                 | 368      | -     | 4,598   | Other manufacturing              |
| -            | -              | -        | -                                  | 974       | -       | -     | 46                                  | 49       | -     | 1,070   | Other energy                     |
| 0            | -              | 0        | -                                  | 2,433     | -       | -     | 34                                  | -        | -     | 2,467   | Construction                     |
| -            | -              | 1,216    | -                                  | 35,021    | -       | -     | 685                                 | 271      | -     | 37,193  | Transport                        |
| -            | -              | -        | -                                  | 95        | -       | -     | -                                   | 250      | -     | 346     | Rail                             |
| -            | -              | 1,216    | -                                  | 33,152    | -       | -     | 685                                 | 21       | -     | 35,074  | Road                             |
| -            | -              | -        | -                                  | 409       | -       | -     | -                                   | -        | -     | 409     | Domestic navigation              |
| -            | -              | -        | -                                  | 1,365     | -       | -     | -                                   | -        | -     | 1,365   | Domestic aviation                |
| 280          | -              | 10,479   | -                                  | 2,152     | -       | -     | 510                                 | 6,059    | 2,080 | 21,560  | Residential                      |
| 26           | -              | 3,708    | -                                  | 3,948     | -       | 1     | 1,323                               | 14,372   | 391   | 23,770  | Commercial Public                |
| Coal         | Natural<br>Gas | City Gas | Crude oil & refinery<br>feedstocks | Petroleum | Nuclear | Hydro | Renewables<br>& others <sup>2</sup> | Electric | Heat  | Total   |                                  |
| (Thou. toe)  |                |          |                                    |           |         |       |                                     |          |       |         |                                  |

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

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|          | 석탄 및<br>석탄제품<br>(천톤) | 천연가스<br>(천톤) | 도시가스<br>(백만㎥) | 원유및정제원료<br>(천배럴)                | 석유제품<br>(천배럴)   | 원자력<br>(GWh) | 수력<br>(GWh) | 신재생 및<br>기타¹<br>(천toe) | 전기<br>(GWh) | 열<br>(천toe) | 합계<br>(천toe) |
|----------|----------------------|--------------|---------------|---------------------------------|-----------------|--------------|-------------|------------------------|-------------|-------------|--------------|
| 국내생산     | 1,019                | 142          | -             | 103                             | -               | 160,184      | 3,879       | 12,624                 | -           | 73          | 48,325       |
| 수입       | 123,886              | 39,982       | -             | 987,422                         | 347,302         | -            | -           | -                      | -           | -           | 313,504      |
| 수출       | -159                 | -            | -             | -448                            | -468,529        | -            | -           | -                      | -           | -           | -65,398      |
| 국제반커링    | -                    | -24          | -             | -                               | -90,868         | -            | -           | -                      | -           | -           | -13,772      |
| 재고변화     | 1,259                | 1,214        | -             | 1,876                           | 1,152           | -            | -           | 1                      | -           | -           | 2,895        |
| 일차에너지공급  | 126,004              | 41,314       | -             | 988,952                         | -210,942        | 160,184      | 3,879       | 12,625                 | -           | 73          | 285,553      |
| 제품이동     | -                    | -            | -             | 101,619                         | -102,678        | -            | -           | -                      | -           | -           | 5,483        |
| 통계오차     | -790                 | 144          | 382           | -1,275                          | 6               | -            | -           | 0                      | -           | -           | 310          |
| 일차에너지소비  | 125,214              | 41,458       | 382           | 1,089,296                       | -313,614        | 160,184      | 3,879       | 12,625                 | -           | 73          | 291,346      |
| 전환공정     | -73,934              | -38,024      | 22,067        | -1,089,285                      | 1,107,189       | -160,184     | -3,877      | -5,957                 | 549,061     | 3,210       | -75,334      |
| 발전전용     | -73,934              | -14,258      | -             | -                               | -3,377          | -160,184     | -3,877      | -7,043                 | 503,493     | -73         | -61,407      |
| 열병합      | -                    | -5,721       | -360          | -                               | -449            | -            | -           | -151                   | 45,567      | 3,065       | -1,074       |
| 열전용      | -                    | -            | -205          | -                               | -1,594          | -            | -           | -20                    | -           | 218         | -228         |
| 석유제품생산   | -                    | -            | -             | -1,089,285                      | 1,112,863       | -            | -           | -                      | -           | -           | -13,579      |
| 가스제조     | -                    | -18,045      | 22,927        | -                               | -254            | -            | -           | -                      | -           | -           | 0            |
| 석탄합성가스제조 | -                    | -            | -             | -                               | -               | -            | -           | 506                    | -           | -           | 506          |
| 기타전환     | -                    | -            | -295          | -                               | -               | -            | -           | 751                    | -           | -           | 448          |
| 전환차계소비   | -                    | -1,848       | -455          | -11                             | -41,306         | -            | -           | -34,765                | -           | -           | -9,876       |
| 손실       | -                    | 6            | -             | -                               | -               | -            | -           | -17,406                | -690        | -           | -2,180       |
| 최종소비     | 51,280               | 1,591        | 21,995        | -                               | 752,269         | -            | 2           | 6,668                  | 496,890     | 2,592       | 203,956      |
| 산업       | 50,774               | 1,591        | 7,138         | -                               | 462,169         | -            | -           | 4,030                  | 254,749     | 0           | 124,223      |
| 농림어업     | 103                  | -            | 1             | -                               | 10,971          | -            | -           | 176                    | 17,037      | 0           | 3,218        |
| 광업       | -                    | -            | -             | -                               | 486             | -            | -           | 0                      | 1,552       | -           | 201          |
| 제조업      | 50,671               | 1,591        | 7,137         | -                               | 435,470         | -            | -           | 3,839                  | 236,161     | -           | 118,448      |
| 식품및담배    | -                    | -            | 823           | -                               | 561             | -            | -           | 103                    | 12,902      | -           | 2,131        |
| 섬유및가죽    | 1,523                | -            | 222           | -                               | 202             | -            | -           | 171                    | 8,697       | -           | 2,077        |
| 목재및나무제품  | -                    | -            | 24            | -                               | 47              | -            | -           | 114                    | 1,703       | -           | 291          |
| 제지및인쇄    | -                    | 411          | 296           | -                               | 261             | -            | -           | 702                    | 9,041       | -           | 2,355        |
| 화학및석유화학  | 6,376                | -            | 1,726         | -                               | 410,314         | -            | -           | 1,138                  | 49,520      | -           | 60,437       |
| 비금속광물    | 3,404                | -            | 516           | -                               | 3,634           | -            | -           | 732                    | 11,154      | -           | 4,803        |
| 철강       | 34,298               | 970          | 1,001         | -                               | 694             | -            | -           | 11                     | 26,452      | -           | 27,444       |
| 비철금속     | 950                  | -            | 462           | -                               | 313             | -            | -           | -                      | 10,061      | -           | 1,910        |
| 기계류      | 300                  | -            | 1,251         | -                               | 635             | -            | -           | 432                    | 82,634      | -           | 9,083        |
| 수송장비     | -                    | 36           | 620           | -                               | 1,611           | -            | -           | 76                     | 20,658      | -           | 2,757        |
| 기타제조     | 3,819                | 175          | 196           | -                               | 10,656          | -            | -           | 360                    | 3,338       | -           | 4,203        |
| 기타에너지    | -                    | -            | -             | -                               | 6,541           | -            | -           | -                      | -           | -           | 956          |
| 건설업      | 0                    | -            | 0             | -                               | 15,242          | -            | -           | 15                     | -           | -           | 2,356        |
| 수송       | -                    | -            | 1,068         | -                               | 245,380         | -            | -           | 695                    | 3,315       | -           | 34,745       |
| 철도       | -                    | -            | -             | -                               | 586             | -            | -           | -                      | 2,899       | -           | 333          |
| 도로       | -                    | -            | 1,068         | -                               | 238,014         | -            | -           | 695                    | 416         | -           | 33,451       |
| 국내해운     | -                    | -            | -             | -                               | 2,274           | -            | -           | -                      | -           | -           | 336          |
| 국내항공     | -                    | -            | -             | -                               | 4,506           | -            | -           | -                      | -           | -           | 625          |
| 가정       | 463                  | -            | 10,593        | -                               | 16,774          | -            | -           | 569                    | 74,074      | 2,200       | 22,356       |
| 상업·공공    | 44                   | -            | 3,196         | -                               | 27,946          | -            | 2           | 1,374                  | 164,752     | 393         | 22,632       |
|          | Coal                 | Natural Gas  | City Gas      | Crude oil & refinery feedstocks | Petroleum       | Nuclear      | Hydro       | Renewables & others    | Electric    | Heat        | Total        |
|          | (Thou. Tons)         | (Thou. Tons) | (Mil. Mtr)    | (Thou. Barrels)                 | (Thou. Barrels) | (GWh)        | (GWh)       | (Thou. toe)            | (GWh)       | (Thou. toe) | (Thou. toe)  |

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

| 석탄 및<br>석탄제품 | 천연<br>가스       | 도시<br>가스 | 원유 및<br>정제원료                       | 석유제품      | 원자력     | 수력    | 신재생 및<br>기타 <sup>1</sup>            | 전기       | 열     | 합계      |                                  |
|--------------|----------------|----------|------------------------------------|-----------|---------|-------|-------------------------------------|----------|-------|---------|----------------------------------|
| (천toe)       |                |          |                                    |           |         |       |                                     |          |       |         |                                  |
| 482          | 185            | -        | 15                                 | -         | 34,119  | 826   | 12,624                              | -        | 73    | 48,325  | Production                       |
| 74,875       | 52,217         | -        | 145,093                            | 41,319    | -       | -     | -                                   | -        | -     | 313,504 | Imports                          |
| -110         | -              | -        | -80                                | -65,207   | -       | -     | -                                   | -        | -     | -65,398 | Exports                          |
| -            | -32            | -        | -                                  | -13,741   | -       | -     | -                                   | -        | -     | -13,772 | International Bunkers            |
| 736          | 1,586          | -        | 282                                | 290       | -       | -     | 1                                   | -        | -     | 2,895   | Stock changes                    |
| 75,983       | 53,956         | -        | 145,311                            | -37,340   | 34,119  | 826   | 12,625                              | -        | 73    | 285,553 | Total primary energy supply      |
| -            | -              | -        | 18,921                             | -13,439   | -       | -     | -                                   | -        | -     | 5,483   | Transfers                        |
| -72          | 188            | 394      | -172                               | -28       | -       | -     | 0                                   | -        | -     | 310     | Statistical differences          |
| 75,911       | 54,144         | 394      | 164,061                            | -50,806   | 34,119  | 826   | 12,625                              | -        | 73    | 291,346 | Total primary energy consumption |
| -43,524      | -49,659        | 22,707   | -164,058                           | 149,673   | -34,119 | -826  | -5,957                              | 47,219   | 3,210 | -75,334 | Transformation processes         |
| -43,524      | -18,621        | -        | -                                  | -502      | -34,119 | -826  | -7,043                              | 43,300   | -73   | -61,407 | Electricity-only plants          |
| -            | -7,471         | -371     | -                                  | -65       | -       | -     | -151                                | 3,919    | 3,065 | -1,074  | CHP plants                       |
| -            | -              | -211     | -                                  | -215      | -       | -     | -20                                 | -        | 218   | -228    | Heat-only plants                 |
| -            | -              | -        | -164,058                           | 150,479   | -       | -     | -                                   | -        | -     | -13,579 | Petroleum Products               |
| -            | -23,567        | 23,592   | -                                  | -25       | -       | -     | -                                   | -        | -     | 0       | Gas manufacturing                |
| -            | -              | -        | -                                  | -         | -       | -     | 506                                 | -        | -     | 506     | Coal-to-Gas plants               |
| -            | -              | -303     | -                                  | -         | -       | -     | 751                                 | -        | -     | 448     | Non-specified Transformation     |
| -            | -2,414         | -468     | -2                                 | -4,002    | -       | -     | -                                   | -2,990   | -     | -9,876  | Transformation Own Use           |
| -            | 8              | -        | -                                  | -         | -       | -     | -                                   | -1,497   | -690  | -2,180  | Losses                           |
| 32,387       | 2,078          | 22,632   | -                                  | 94,865    | -       | 0     | 6,668                               | 42,733   | 2,592 | 203,956 | Total final consumption          |
| 32,147       | 2,078          | 7,345    | -                                  | 56,714    | -       | -     | 4,030                               | 21,908   | 0     | 124,223 | Industry                         |
| 25           | -              | 1        | -                                  | 1,550     | -       | -     | 176                                 | 1,465    | 0     | 3,218   | Agriculture/forestry/Fishing     |
| -            | -              | -        | -                                  | 68        | -       | -     | 0                                   | 133      | -     | 201     | Mining and quarrying             |
| 32,122       | 2,078          | 7,344    | -                                  | 52,756    | -       | -     | 3,839                               | 20,310   | -     | 118,448 | Manufacturing                    |
| -            | -              | 847      | -                                  | 72        | -       | -     | 103                                 | 1,110    | -     | 2,131   | Food and tobacco                 |
| 902          | -              | 229      | -                                  | 28        | -       | -     | 171                                 | 748      | -     | 2,077   | Textile and leather              |
| -            | -              | 24       | -                                  | 7         | -       | -     | 114                                 | 146      | -     | 291     | Wood and wood products           |
| -            | 411            | 296      | -                                  | 261       | -       | -     | 702                                 | 9,041    | -     | 2,355   | Paper, pulp and print            |
| 3,775        | -              | 1,777    | -                                  | 49,489    | -       | -     | 1,138                               | 4,259    | -     | 60,437  | Chemical and petrochemical       |
| 2,015        | -              | 531      | -                                  | 566       | -       | -     | 732                                 | 959      | -     | 4,803   | Non-metallic minerals            |
| 22,792       | 1,266          | 1,030    | -                                  | 70        | -       | -     | 11                                  | 2,275    | -     | 27,444  | Iron and steel                   |
| 528          | -              | 475      | -                                  | 41        | -       | -     | -                                   | 865      | -     | 1,910   | Non-ferrous metals               |
| 178          | -              | 1,288    | -                                  | 80        | -       | -     | 432                                 | 7,107    | -     | 9,083   | Machinery                        |
| -            | 46             | 638      | -                                  | 221       | -       | -     | 76                                  | 1,777    | -     | 2,757   | Transport Equipment              |
| 1,932        | 229            | 202      | -                                  | 1,192     | -       | -     | 360                                 | 287      | -     | 4,203   | Other manufacturing              |
| -            | -              | -        | -                                  | 956       | -       | -     | -                                   | -        | -     | 956     | Other energy                     |
| 0            | -              | 0        | -                                  | 2,341     | -       | -     | 15                                  | -        | -     | 2,356   | Construction                     |
| -            | -              | 1,099    | -                                  | 32,666    | -       | -     | 695                                 | 285      | -     | 34,745  | Transport                        |
| -            | -              | -        | -                                  | 84        | -       | -     | -                                   | 249      | -     | 333     | Rail                             |
| -            | -              | 1,099    | -                                  | 31,621    | -       | -     | 695                                 | 36       | -     | 33,451  | Road                             |
| -            | -              | -        | -                                  | 336       | -       | -     | -                                   | -        | -     | 336     | Domestic navigation              |
| -            | -              | -        | -                                  | 625       | -       | -     | -                                   | -        | -     | 625     | Domestic aviation                |
| 219          | -              | 10,900   | -                                  | 2,097     | -       | -     | 569                                 | 6,370    | 2,200 | 22,356  | Residential                      |
| 21           | -              | 3,289    | -                                  | 3,387     | -       | 0     | 1,374                               | 14,169   | 393   | 22,632  | Commercial/Public                |
| Coal         | Natural<br>Gas | City Gas | Crude oil & refinery<br>feedstocks | Petroleum | Nuclear | Hydro | Renewables<br>& others <sup>2</sup> | Electric | Heat  | Total   |                                  |
| (Thou. toe)  |                |          |                                    |           |         |       |                                     |          |       |         |                                  |

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

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|          | 석탄 및<br>석탄제품<br>(천톤) | 천연가스<br>(천톤) | 도시가스<br>(백만㎥) | 원유 및 정제원료<br>(천배럴)              | 석유제품<br>(천배럴)   | 원자력<br>(GWh) | 수력<br>(GWh) | 신재생 및<br>기타¹<br>(천toe) | 전기<br>(GWh) | 열<br>(천toe) | 합계<br>(천toe) |
|----------|----------------------|--------------|---------------|---------------------------------|-----------------|--------------|-------------|------------------------|-------------|-------------|--------------|
| 국내생산     | 898                  | 42           | -             | 36                              | -               | 158,015      | 3,057       | 14,373                 | -           | 68          | 49,234       |
| 수입       | 126,099              | 45,932       | -             | 973,734                         | 392,317         | -            | -           | -                      | -           | -           | 326,860      |
| 수출       | -313                 | -            | -             | -1,782                          | -446,559        | -            | -           | -                      | -           | -           | -62,374      |
| 국제병커링    | -                    | -22          | -             | -                               | -89,844         | -            | -           | -                      | -           | -           | -13,676      |
| 재고변화     | 1,018                | -295         | -             | 1,928                           | 1,109           | -            | -           | -1                     | -           | -           | 506          |
| 일차에너지공급  | 127,703              | 45,657       | -             | 973,916                         | -142,976        | 158,015      | 3,057       | 14,373                 | -           | 68          | 300,550      |
| 제품이동     | -                    | -            | -             | 116,592                         | -117,175        | -            | -           | -                      | -           | -           | 6,107        |
| 통계오차     | 1,283                | 124          | 274           | -1,406                          | 1,771           | -            | -           | 0                      | -           | -           | 1,593        |
| 일차에너지소비  | 128,985              | 45,781       | 274           | 1,089,101                       | -258,380        | 158,015      | 3,057       | 14,373                 | -           | 68          | 308,250      |
| 전환공정     | -75,185              | -42,367      | 23,328        | -1,089,068                      | 1,105,789       | -158,015     | -3,055      | -7,231                 | 573,304     | 3,022       | -80,133      |
| 발전전용     | -75,185              | -16,943      | -             | -                               | -3,811          | -158,015     | -3,055      | -8,508                 | 524,978     | -68         | -64,677      |
| 열병합      | -                    | -6,306       | -335          | -                               | -377            | -            | -           | -173                   | 48,326      | 2,865       | -1,773       |
| 열전용      | -                    | -            | -281          | -                               | -1,773          | -            | -           | -40                    | -           | 225         | -339         |
| 석유제품생산   | -                    | -            | -             | -1,089,068                      | 1,113,422       | -            | -           | -                      | -           | -           | -14,341      |
| 가스제조     | -                    | -19,118      | 24,423        | -                               | -1,672          | -            | -           | -                      | -           | -           | 0            |
| 석탄합성가스제조 | -                    | -            | -             | -                               | -               | -            | -           | 467                    | -           | -           | 467          |
| 기타전환     | -                    | -            | -478          | -                               | -               | -            | -           | 1,023                  | -           | -           | 531          |
| 전환자제소비   | -                    | -1,817       | -880          | -33                             | -38,312         | -            | -           | -                      | -35,708     | -           | -10,009      |
| 손실       | -                    | 8            | -             | -                               | -               | -            | -           | -                      | -17,269     | -389        | -1,863       |
| 최종소비     | 53,801               | 1,605        | 22,723        | -                               | 809,098         | -            | 3           | 7,141                  | 520,326     | 2,701       | 216,245      |
| 산업       | 53,354               | 1,605        | 7,634         | -                               | 505,836         | -            | -           | 4,392                  | 269,561     | -           | 133,541      |
| 농림어업     | 146                  | -            | 2             | -                               | 9,795           | -            | -           | 132                    | 18,496      | -           | 3,144        |
| 광업       | -                    | -            | -             | -                               | 657             | -            | -           | 0                      | 1,807       | -           | 253          |
| 제조업      | 53,208               | 1,605        | 7,631         | -                               | 481,043         | -            | -           | 4,248                  | 249,257     | -           | 127,926      |
| 식품및담배    | -                    | -            | 884           | -                               | 390             | -            | -           | 105                    | 13,537      | -           | 2,226        |
| 섬유및가죽    | 1,629                | -            | 234           | -                               | 156             | -            | -           | 151                    | 9,232       | -           | 2,171        |
| 목재및무제품   | -                    | -            | 27            | -                               | 50              | -            | -           | 90                     | 1,761       | -           | 276          |
| 제지및인쇄    | -                    | 387          | 301           | -                               | 230             | -            | -           | 713                    | 9,214       | -           | 2,351        |
| 화학및석유화학  | 6,988                | 58           | 1,923         | -                               | 452,940         | -            | -           | 1,558                  | 53,405      | -           | 67,261       |
| 비금속광물    | 3,649                | -            | 537           | -                               | 3,388           | -            | -           | 853                    | 11,700      | -           | 5,097        |
| 철강       | 35,352               | 791          | 1,065         | -                               | 674             | -            | -           | 12                     | 25,906      | -           | 27,941       |
| 비철금속     | 1,026                | 137          | 482           | -                               | 281             | -            | -           | -                      | 9,315       | -           | 2,076        |
| 기계류      | 308                  | -            | 1,354         | -                               | 645             | -            | -           | 275                    | 89,539      | -           | 9,632        |
| 수송장비     | -                    | 47           | 655           | -                               | 1,478           | -            | -           | 87                     | 22,086      | -           | 2,922        |
| 기타제조     | 4,255                | 185          | 169           | -                               | 10,383          | -            | -           | 403                    | 3,562       | -           | 4,421        |
| 기타에너지    | -                    | -            | -             | -                               | 10,428          | -            | -           | 1                      | -           | -           | 1,551        |
| 건설업      | 0                    | -            | -             | -                               | 14,340          | -            | -           | 11                     | -           | -           | 2,218        |
| 수송       | -                    | -            | 1,030         | -                               | 259,041         | -            | -           | 704                    | 3,701       | -           | 36,636       |
| 철도       | -                    | -            | -             | -                               | 521             | -            | -           | -                      | 2,996       | -           | 332          |
| 도로       | -                    | -            | 1,030         | -                               | 243,566         | -            | -           | 704                    | 705         | -           | 34,199       |
| 국내해운     | -                    | -            | -             | -                               | 2,863           | -            | -           | -                      | -           | -           | 428          |
| 국내항공     | -                    | -            | -             | -                               | 12,090          | -            | -           | -                      | -           | -           | 1,676        |
| 가정       | 409                  | -            | 10,791        | -                               | 16,827          | -            | -           | 612                    | 77,558      | 2,265       | 22,940       |
| 상업 공공    | 39                   | -            | 3,269         | -                               | 27,395          | -            | 3           | 1,434                  | 169,506     | 435         | 23,128       |
|          | Coal                 | Natural Gas  | City Gas      | Crude oil & refinery feedstocks | Petroleum       | Nuclear      | Hydro       | Renewables & others¹   | Electric    | Heat        | Total        |
|          | (Thou. Tons)         | (Thou. Tons) | (Mil. Mtr)    | (Thou. Barrels)                 | (Thou. Barrels) | (GWh)        | (GWh)       | (Thou. toe)            | (GWh)       | (Thou. toe) | (Thou. toe)  |

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

| 석탄 및<br>석탄제품 | 천연<br>가스       | 도시<br>가스 | 원유 및<br>정제원료                          | 석유제품      | 원자력     | 수력    | 신재생 및<br>기타 <sup>1</sup>            | 전기       | 열     | 합계      |                                  |
|--------------|----------------|----------|---------------------------------------|-----------|---------|-------|-------------------------------------|----------|-------|---------|----------------------------------|
| (천toe)       |                |          |                                       |           |         |       |                                     |          |       |         |                                  |
| 425          | 55             | -        | 5                                     | -         | 33,657  | 651   | 14,373                              | -        | 68    | 49,234  | Production                       |
| 76,172       | 59,987         | -        | 143,343                               | 47,359    | -       | -     | -                                   | -        | -     | 326,860 | Imports                          |
| -217         | -              | -        | -323                                  | -61,835   | -       | -     | -                                   | -        | -     | -62,374 | Exports                          |
| -            | -29            | -        | -                                     | -13,647   | -       | -     | -                                   | -        | -     | -13,676 | International Bunkers            |
| 589          | -385           | -        | 239                                   | 63        | -       | -     | -1                                  | -        | -     | 506     | Stock changes                    |
| 76,968       | 59,628         | -        | 143,265                               | -28,060   | 33,657  | 651   | 14,373                              | -        | 68    | 300,550 | Total primary energy supply      |
| -            | -              | -        | 21,709                                | -15,602   | -       | -     | -                                   | -        | -     | 6,107   | Transfers                        |
| 1,201        | 162            | 282      | -191                                  | 140       | -       | -     | 0                                   | -        | -     | 1,593   | Statistical differences          |
| 78,169       | 59,790         | 282      | 164,783                               | -43,522   | 33,657  | 651   | 14,373                              | -        | 68    | 308,250 | Total primary energy consumption |
| -44,254      | -55,331        | 24,005   | -164,777                              | 149,437   | -33,657 | -651  | -7,231                              | 49,304   | 3,022 | -80,133 | Transformation processes         |
| -44,254      | -22,127        | -        | -                                     | -561      | -33,657 | -651  | -8,508                              | 45,148   | -68   | -64,677 | Electricity-only plants          |
| -            | -8,236         | -344     | -                                     | -40       | -       | -     | -173                                | 4,156    | 2,865 | -1,773  | CHP plants                       |
| -            | -              | -289     | -                                     | -235      | -       | -     | -40                                 | -        | 225   | -339    | Heat-only plants                 |
| -            | -              | -        | -164,777                              | 150,436   | -       | -     | -                                   | -        | -     | -14,341 | Petroleum Products               |
| -            | -24,968        | 25,131   | -                                     | -163      | -       | -     | -                                   | -        | -     | 0       | Gas manufacturing                |
| -            | -              | -        | -                                     | -         | -       | -     | 467                                 | -        | -     | 467     | Coal-to-Gas plants               |
| -            | -              | -492     | -                                     | -         | -       | -     | 1,023                               | -        | -     | 531     | Non-specified Transformation     |
| -            | -2,373         | -905     | -6                                    | -3,654    | -       | -     | -                                   | -3,071   | -     | -10,009 | Transformation Own Use           |
| -            | 11             | -        | -                                     | -         | -       | -     | -                                   | -1,485   | -389  | -1,863  | Losses                           |
| 33,915       | 2,097          | 23,382   | -                                     | 102,260   | -       | 1     | 7,141                               | 44,748   | 2,701 | 216,245 | Total final consumption          |
| 33,704       | 2,097          | 7,855    | -                                     | 62,312    | -       | -     | 4,392                               | 23,182   | -     | 133,541 | Industry                         |
| 36           | -              | 2        | -                                     | 1,382     | -       | -     | 132                                 | 1,591    | -     | 3,144   | Agriculture/forestry/Fishing     |
| -            | -              | -        | -                                     | 98        | -       | -     | 0                                   | 155      | -     | 253     | Mining and quarrying             |
| 33,668       | 2,097          | 7,852    | -                                     | 58,625    | -       | -     | 4,248                               | 21,436   | -     | 127,926 | Manufacturing                    |
| -            | -              | 910      | -                                     | 47        | -       | -     | 105                                 | 1,164    | -     | 2,226   | Food and tobacco                 |
| 965          | -              | 241      | -                                     | 21        | -       | -     | 151                                 | 794      | -     | 2,171   | Textile and leather              |
| -            | -              | 28       | -                                     | 7         | -       | -     | 90                                  | 151      | -     | 276     | Wood and wood products           |
| -            | 387            | 301      | -                                     | 230       | -       | -     | 713                                 | 9,214    | -     | 2,351   | Paper, pulp and print            |
| 4,137        | 76             | 1,979    | -                                     | 54,918    | -       | -     | 1,558                               | 4,593    | -     | 67,261  | Chemical and petrochemical       |
| 2,160        | -              | 553      | -                                     | 524       | -       | -     | 853                                 | 1,006    | -     | 5,097   | Non-metallic minerals            |
| 23,506       | 1,033          | 1,096    | -                                     | 67        | -       | -     | 12                                  | 2,228    | -     | 27,941  | Iron and steel                   |
| 565          | 179            | 495      | -                                     | 36        | -       | -     | -                                   | 801      | -     | 2,076   | Non-ferrous metals               |
| 182          | -              | 1,393    | -                                     | 81        | -       | -     | 275                                 | 7,700    | -     | 9,632   | Machinery                        |
| -            | 62             | 674      | -                                     | 200       | -       | -     | 87                                  | 1,899    | -     | 2,922   | Transport Equipment              |
| 2,153        | 242            | 173      | -                                     | 1,143     | -       | -     | 403                                 | 306      | -     | 4,421   | Other manufacturing              |
| -            | -              | -        | -                                     | 1,550     | -       | -     | 1                                   | -        | -     | 1,551   | Other energy                     |
| 0            | -              | -        | -                                     | 2,207     | -       | -     | 11                                  | -        | -     | 2,218   | Construction                     |
| -            | -              | 1,060    | -                                     | 34,554    | -       | -     | 704                                 | 318      | -     | 36,636  | Transport                        |
| -            | -              | -        | -                                     | 75        | -       | -     | -                                   | 258      | -     | 332     | Rail                             |
| -            | -              | 1,060    | -                                     | 32,375    | -       | -     | 704                                 | 61       | -     | 34,199  | Road                             |
| -            | -              | -        | -                                     | 428       | -       | -     | -                                   | -        | -     | 428     | Domestic navigation              |
| -            | -              | -        | -                                     | 1,676     | -       | -     | -                                   | -        | -     | 1,676   | Domestic aviation                |
| 193          | -              | 11,104   | -                                     | 2,096     | -       | -     | 612                                 | 6,670    | 2,265 | 22,940  | Residential                      |
| 18           | -              | 3,364    | -                                     | 3,299     | -       | 1     | 1,434                               | 14,578   | 435   | 23,128  | Commercial Public                |
| Coal         | Natural<br>Gas | City Gas | Crude oil<br>& refinery<br>feedstocks | Petroleum | Nuclear | Hydro | Renewables<br>& others <sup>2</sup> | Electric | Heat  | Total   |                                  |
| (Thou. toe)  |                |          |                                       |           |         |       |                                     |          |       |         |                                  |

1. ① Biofuels and waste, ② Geothermal, solar, etc., ③ Other sources

## 2-13. 2022년

|          | 석탄 및<br>석탄제품<br>(천톤) | 천연가스<br>(천톤) | 도시가스<br>(백만㎥) | 원유 및 정제원료<br>(천배럴)              | 석유제품<br>(천배럴)   | 원자력<br>(GWh) | 수력<br>(GWh) | 신재생 및<br>기타¹<br>(천toe) | 전기<br>(GWh) | 열<br>(천toe) | 합계<br>(천toe) |
|----------|----------------------|--------------|---------------|---------------------------------|-----------------|--------------|-------------|------------------------|-------------|-------------|--------------|
| 국내생산     | 820                  | -            | -             | 17                              | -               | 176,054      | 3,545       | 15,908                 | -           | 69          | 54,621       |
| 수입       | 125,563              | 46,394       | -             | 1,047,685                       | 367,072         | -            | -           | -                      | -           | -           | 336,443      |
| 수출       | -29                  | -            | -             | -1,848                          | -497,020        | -            | -           | -                      | -           | -           | -69,338      |
| 국제변경     | -                    | -8           | -             | -                               | -102,335        | -            | -           | -                      | -           | -           | -15,514      |
| 재고변화     | -484                 | -1,124       | -             | -3,290                          | 48              | -            | -           | 1                      | -           | -           | -2,339       |
| 일차에너지공급  | 125,870              | 45,262       | -             | 1,042,564                       | -232,234        | 176,054      | 3,545       | 15,909                 | -           | 69          | 303,980      |
| 제품이동     | -                    | -            | -             | 116,442                         | -116,865        | -            | -           | -                      | -           | -           | 6,249        |
| 통계오차     | -1,534               | 187          | -65           | -3,113                          | 7,735           | -            | -           | 0                      | -           | -           | -332         |
| 일차에너지소비  | 124,337              | 45,449       | -65           | 1,155,893                       | -341,364        | 176,054      | 3,545       | 15,909                 | -           | 69          | 309,897      |
| 전환공정     | -76,016              | -42,318      | 24,271        | -1,155,425                      | 1,179,249       | -176,054     | -3,541      | -8,644                 | 590,843     | 3,156       | -84,687      |
| 발전전용     | -76,016              | -16,096      | -             | -                               | -4,056          | -176,054     | -3,541      | -9,424                 | 545,419     | -69         | -66,731      |
| 열병합      | -                    | -6,579       | -294          | -                               | -967            | -            | -           | -221                   | 45,424      | 2,887       | -2,435       |
| 열전용      | -                    | -            | -382          | -                               | -1,683          | -            | -           | -24                    | -           | 338         | -310         |
| 석유제품생산   | -                    | -            | -             | -1,155,425                      | 1,189,404       | -            | -           | -                      | -           | -           | -15,630      |
| 가스제조     | -                    | -19,643      | 25,543        | -                               | -3,449          | -            | -           | -                      | -           | -           | 0            |
| 석탄합성가스제조 | -                    | -            | -             | -                               | -               | -            | -           | 419                    | -           | -           | 419          |
| 기타전환     | -                    | -            | -596          | -                               | -               | -            | -           | 607                    | -           | -           | -            |
| 전환자제소비   | -                    | -1,514       | -813          | -468                            | -38,981         | -            | -           | -37,316                | -           | -           | -9,801       |
| 손실       | -                    | 4            | -             | -                               | -               | -            | -           | -18,164                | -279        | -           | -1,837       |
| 최종소비     | 48,321               | 1,621        | 23,392        | -                               | 798,903         | -            | 4           | 7,265                  | 535,364     | 2,946       | 213,572      |
| 산업       | 47,898               | 1,621        | 7,639         | -                               | 496,939         | -            | -           | 4,471                  | 274,066     | -           | 129,553      |
| 농림어업     | 111                  | -            | 3             | -                               | 8,939           | -            | -           | 193                    | 19,286      | -           | 3,141        |
| 광업       | -                    | -            | -             | -                               | 701             | -            | -           | 4                      | 1,759       | -           | 261          |
| 제조업      | 47,786               | 1,621        | 7,636         | -                               | 474,186         | -            | -           | 4,274                  | 253,021     | -           | 124,140      |
| 식품및담배    | 7                    | -            | 900           | -                               | 354             | -            | -           | 85                     | 13,908      | -           | 2,243        |
| 섬유및가죽    | 1,584                | -            | 221           | -                               | 170             | -            | -           | 173                    | 8,858       | -           | 2,112        |
| 목재및무제품   | -                    | -            | 31            | -                               | 48              | -            | -           | 115                    | 1,754       | -           | 305          |
| 제지및인쇄    | -                    | 410          | 300           | -                               | 220             | -            | -           | 694                    | 9,196       | -           | 2,356        |
| 화학및석유화학  | 5,448                | 241          | 1,886         | -                               | 446,587         | -            | -           | 1,345                  | 53,422      | -           | 65,339       |
| 비금속광물    | 3,657                | -            | 522           | -                               | 3,156           | -            | -           | 991                    | 11,798      | -           | 5,155        |
| 철강       | 32,504               | 567          | 1,056         | -                               | 558             | -            | -           | 3                      | 25,902      | -           | 25,901       |
| 비철금속     | 808                  | 178          | 492           | -                               | 354             | -            | -           | -                      | 9,308       | -           | 2,040        |
| 기계류      | 296                  | 27           | 1,395         | -                               | 638             | -            | -           | 439                    | 92,551      | -           | 10,110       |
| 수송장비     | -                    | 14           | 661           | -                               | 1,783           | -            | -           | 60                     | 22,742      | -           | 2,952        |
| 기타제조     | 3,482                | 184          | 171           | -                               | 9,899           | -            | -           | 369                    | 3,583       | -           | 4,079        |
| 기타에너지    | -                    | -            | -             | -                               | 10,418          | -            | -           | -                      | -           | -           | 1,548        |
| 건설업      | 0                    | -            | -             | -                               | 13,113          | -            | -           | 0                      | -           | -           | 2,012        |
| 수송       | -                    | -            | 1,006         | -                               | 258,008         | -            | -           | 682                    | 4,053       | -           | 36,293       |
| 철도       | -                    | -            | -             | -                               | 439             | -            | -           | -                      | 2,751       | -           | 300          |
| 도로       | -                    | -            | 1,006         | -                               | 242,421         | -            | -           | 682                    | 1,303       | -           | 33,858       |
| 국내해운     | -                    | -            | -             | -                               | 3,091           | -            | -           | -                      | -           | -           | 464          |
| 국내항공     | -                    | -            | -             | -                               | 12,057          | -            | -           | -                      | -           | -           | 1,671        |
| 가정       | 387                  | -            | 11,255        | -                               | 16,452          | -            | -           | 695                    | 78,558      | 2,432       | 23,560       |
| 상업 공공    | 36                   | -            | 3,491         | -                               | 27,504          | -            | 4           | 1,418                  | 178,687     | 514         | 24,165       |
|          | Coal                 | Natural Gas  | City Gas      | Crude oil & refinery feedstocks | Petroleum       | Nuclear      | Hydro       | Renewables & others¹   | Electric    | Heat        | Total        |
|          | (Thou. Tons)         | (Thou. Tons) | (Mil. Mtr)    | (Thou. Barrels)                 | (Thou. Barrels) | (GWh)        | (GWh)       | (Thou. toe)            | (GWh)       | (Thou. toe) | (Thou. toe)  |

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원



| 석탄 및<br>석탄제품 | 천연<br>가스    | 도시<br>가스 | 원유 및<br>정제원료                    | 석유제품      | 원자력     | 수력    | 신재생 및<br>기타 <sup>1</sup>         | 전기       | 열     | 합계      |                                  |
|--------------|-------------|----------|---------------------------------|-----------|---------|-------|----------------------------------|----------|-------|---------|----------------------------------|
| (천toe)       |             |          |                                 |           |         |       |                                  |          |       |         |                                  |
| 386          | -           | -        | 2                               | -         | 37,500  | 755   | 15,908                           | -        | 69    | 54,621  | Production                       |
| 75,794       | 60,683      | -        | 156,690                         | 43,276    | -       | -     | -                                | -        | -     | 336,443 | Imports                          |
| -19          | -           | -        | -331                            | -68,987   | -       | -     | -                                | -        | -     | -69,338 | Exports                          |
| -            | -10         | -        | -                               | -15,503   | -       | -     | -                                | -        | -     | -15,514 | International Bunkers            |
| -292         | -1,577      | -        | -526                            | 55        | -       | -     | 1                                | -        | -     | -2,339  | Stock changes                    |
| 75,869       | 59,203      | -        | 155,835                         | -41,159   | 37,500  | 755   | 15,909                           | -        | 69    | 303,980 | Total primary energy supply      |
| -            | -           | -        | 21,681                          | -15,433   | -       | -     | -                                | -        | -     | 6,249   | Transfers                        |
| -735         | 244         | -66      | -472                            | 696       | -       | -     | 0                                | -        | -     | -332    | Statistical differences          |
| 75,134       | 59,447      | -66      | 177,044                         | -55,895   | 37,500  | 755   | 15,909                           | -        | 69    | 309,897 | Total primary energy consumption |
| -44,291      | -55,352     | 24,732   | -176,957                        | 160,111   | -37,500 | -754  | -8,644                           | 50,813   | 3,156 | -84,687 | Transformation processes         |
| -44,291      | -21,053     | -        | -                               | -546      | -37,500 | -754  | -9,424                           | 46,906   | -69   | -66,731 | Electricity-only plants          |
| -            | -8,606      | -300     | -                               | -101      | -       | -     | -221                             | 3,906    | 2,887 | -2,435  | CHP plants                       |
| -            | -           | -389     | -                               | -235      | -       | -     | -24                              | -        | 338   | -310    | Heat-only plants                 |
| -            | -           | -        | -176,957                        | 161,327   | -       | -     | -                                | -        | -     | -15,630 | Petroleum Products               |
| -            | -25,694     | 26,028   | -                               | -334      | -       | -     | -                                | -        | -     | 0       | Gas manufacturing                |
| -            | -           | -        | -                               | -         | -       | -     | 419                              | -        | -     | 419     | Coal-to-Gas plants               |
| -            | -           | -607     | -                               | -         | -       | -     | 607                              | -        | -     | -       | Non-specified Transformation     |
| -            | -1,980      | -829     | -87                             | -3,696    | -       | -     | -                                | -3,209   | -     | -9,801  | Transformation Own Use           |
| -            | 5           | -        | -                               | -         | -       | -     | -                                | -1,562   | -279  | -1,837  | Losses                           |
| 30,842       | 2,120       | 23,837   | -                               | 100,520   | -       | 1     | 7,265                            | 46,041   | 2,946 | 213,572 | Total final consumption          |
| 30,643       | 2,120       | 7,784    | -                               | 60,966    | -       | -     | 4,471                            | 23,570   | -     | 129,553 | Industry                         |
| 28           | -           | 3        | -                               | 1,259     | -       | -     | 193                              | 1,659    | -     | 3,141   | Agriculture/forestry/Fishing     |
| -            | -           | -        | -                               | 106       | -       | -     | 4                                | 151      | -     | 261     | Mining and quarrying             |
| 30,615       | 2,120       | 7,781    | -                               | 57,590    | -       | -     | 4,274                            | 21,760   | -     | 124,140 | Manufacturing                    |
| 4            | -           | 917      | -                               | 41        | -       | -     | 85                               | 1,196    | -     | 2,243   | Food and tobacco                 |
| 928          | -           | 226      | -                               | 23        | -       | -     | 173                              | 762      | -     | 2,112   | Textile and leather              |
| -            | -           | 32       | -                               | 7         | -       | -     | 115                              | 151      | -     | 305     | Wood and wood products           |
| -            | 410         | 300      | -                               | 220       | -       | -     | 694                              | 9,196    | -     | 2,356   | Paper, pulp and print            |
| 3,193        | 316         | 1,922    | -                               | 53,969    | -       | -     | 1,345                            | 4,594    | -     | 65,339  | Chemical and petrochemical       |
| 2,143        | -           | 532      | -                               | 474       | -       | -     | 991                              | 1,015    | -     | 5,155   | Non-metallic minerals            |
| 21,797       | 742         | 1,076    | -                               | 56        | -       | -     | 3                                | 2,228    | -     | 25,901  | Iron and steel                   |
| 462          | 232         | 501      | -                               | 44        | -       | -     | -                                | 801      | -     | 2,040   | Non-ferrous metals               |
| 174          | 35          | 1,422    | -                               | 81        | -       | -     | 439                              | 7,959    | -     | 10,110  | Machinery                        |
| -            | 18          | 673      | -                               | 245       | -       | -     | 60                               | 1,956    | -     | 2,952   | Transport Equipment              |
| 1,915        | 240         | 174      | -                               | 1,072     | -       | -     | 369                              | 308      | -     | 4,079   | Other manufacturing              |
| -            | -           | -        | -                               | 1,548     | -       | -     | -                                | -        | -     | 1,548   | Other energy                     |
| 0            | -           | -        | -                               | 2,012     | -       | -     | 0                                | -        | -     | 2,012   | Construction                     |
| -            | -           | 1,025    | -                               | 34,238    | -       | -     | 682                              | 349      | -     | 36,293  | Transport                        |
| -            | -           | -        | -                               | 63        | -       | -     | -                                | 237      | -     | 300     | Rail                             |
| -            | -           | 1,025    | -                               | 32,039    | -       | -     | 682                              | 112      | -     | 33,858  | Road                             |
| -            | -           | -        | -                               | 464       | -       | -     | -                                | -        | -     | 464     | Domestic navigation              |
| -            | -           | -        | -                               | 1,671     | -       | -     | -                                | -        | -     | 1,671   | Domestic aviation                |
| 182          | -           | 11,469   | -                               | 2,026     | -       | -     | 695                              | 6,756    | 2,432 | 23,560  | Residential                      |
| 17           | -           | 3,558    | -                               | 3,290     | -       | 1     | 1,418                            | 15,367   | 514   | 24,165  | Commercial Public                |
| Coal         | Natural Gas | City Gas | Crude oil & refinery feedstocks | Petroleum | Nuclear | Hydro | Renewables & others <sup>2</sup> | Electric | Heat  | Total   |                                  |
| (Thou. toe)  |             |          |                                 |           |         |       |                                  |          |       |         |                                  |

1. ①Biofuels and waste, ②Geothermal, solar, etc., ③Other sources

## 2-14. 2023(잠정)년

|          | 석탄 및<br>석탄제품<br>(천톤) | 천연가스<br>(천톤) | 도시가스<br>(백만㎥) | 원유 및 정제원료<br>(천배럴)              | 석유제품<br>(천배럴)   | 원자력<br>(GWh) | 수력<br>(GWh) | 신재생¹<br>(천toe) | 전기<br>(GWh) | 열<br>(천toe) | 합계<br>(천toe) |
|----------|----------------------|--------------|---------------|---------------------------------|-----------------|--------------|-------------|----------------|-------------|-------------|--------------|
| 국내생산     | 646                  | -            | -             | -                               | -               | 180,494      | 3,720       | 16,902         | -           | 73          | 56,517       |
| 수입       | 119,761              | 44,117       | -             | 1,018,299                       | 372,054         | -            | -           | -              | -           | -           | 326,760      |
| 수출       | -1                   | -            | -             | -2,515                          | -494,404        | -            | -           | -              | -           | -           | -68,758      |
| 국제병커링    | -                    | -9           | -             | -                               | -112,404        | -            | -           | -              | -           | -           | -16,823      |
| 재고변화     | 1,500                | -799         | -             | 4,688                           | -6,174          | -            | -           | 1              | -           | -           | -98          |
| 일차에너지공급  | 121,906              | 43,309       | -             | 1,020,472                       | -240,928        | 180,494      | 3,720       | 16,903         | -           | 73          | 297,598      |
| 제품이동     | -                    | -            | -             | 132,952                         | -133,361        | -            | -           | -              | -           | -           | 7,108        |
| 통계오차     | -2,274               | 612          | 176           | -3,364                          | 3,926           | -            | -           | -1             | -           | -           | -406         |
| 일차에너지소비  | 119,632              | 43,921       | 176           | 1,150,059                       | -370,363        | 180,494      | 3,720       | 16,902         | -           | 73          | 304,300      |
| 전환공정     | -72,046              | -39,747      | 22,087        | -1,149,566                      | 1,175,749       | -180,494     | -3,716      | -9,547         | 584,440     | 2,815       | -84,747      |
| 발전전용     | -72,046              | -15,134      | -             | -                               | -2,678          | -180,494     | -3,716      | -10,840        | 536,480     | -73         | -66,157      |
| 열병합      | -                    | -6,485       | -262          | -                               | -529            | -            | -           | -192           | 47,969      | 2,440       | -2,440       |
| 열전용      | -                    | -0           | -271          | -                               | -1,388          | -            | -           | -41            | -           | 448         | -64          |
| 석유제품생산   | -                    | -            | -             | -1,149,566                      | 1,183,019       | -            | -           | -              | -           | -           | -16,692      |
| 가스제조     | -                    | -18,129      | 23,525        | -                               | -2,674          | -            | -           | -              | -           | -           | -0           |
| 석탄합성가스제조 | -                    | -            | -             | -                               | -               | -            | -           | 212            | -           | -           | 212          |
| 기타전환     | -                    | -            | -904          | -                               | -               | -            | -           | 1,313          | -           | -           | 392          |
| 전환자제소비   | -                    | -2,020       | -571          | -494                            | -39,205         | -            | -           | -35,537        | -           | -           | -10,087      |
| 손실       | -                    | 7            | -             | -                               | -               | -            | -           | -14,225        | -79         | -           | -1,293       |
| 최종소비     | 47,585               | 2,162        | 21,693        | -                               | 766,182         | -            | 4           | 7,355          | 534,678     | 2,809       | 208,172      |
| 산업       | 47,196               | 2,162        | 7,065         | -                               | 473,704         | -            | -           | 4,640          | 268,462     | -           | 126,412      |
| 농림어업     | 73                   | -            | 4             | -                               | 8,653           | -            | -           | 157            | 18,777      | -           | 3,013        |
| 광업       | -                    | -            | -             | -                               | 535             | -            | -           | 0              | 1,709       | -           | 228          |
| 제조업      | 47,123               | 2,162        | 7,061         | -                               | 451,071         | -            | -           | 4,470          | 247,976     | -           | 121,088      |
| 식품및담배    | 7                    | -            | 861           | -                               | 346             | -            | -           | 125            | 13,996      | -           | 2,250        |
| 섬유및가죽    | 1,541                | -            | 173           | -                               | 116             | -            | -           | 180            | 7,849       | -           | 1,950        |
| 목재및무제품   | -                    | -            | 28            | -                               | 44              | -            | -           | 107            | 1,648       | -           | 284          |
| 제지및인쇄    | -                    | 381          | 277           | -                               | 221             | -            | -           | 849            | 8,833       | -           | 2,417        |
| 화학및석유화학  | 5,423                | 153          | 1,554         | -                               | 421,536         | -            | -           | 1,507          | 53,391      | -           | 62,121       |
| 비금속광물    | 3,479                | -            | 482           | -                               | 3,422           | -            | -           | 779            | 11,438      | -           | 4,809        |
| 철강       | 32,879               | 808          | 1,067         | -                               | 581             | -            | -           | 12             | 24,288      | -           | 26,370       |
| 비철금속     | 818                  | 280          | 476           | -                               | 349             | -            | -           | -              | 8,764       | -           | 2,120        |
| 기계류      | 296                  | 330          | 1,352         | -                               | 608             | -            | -           | 327            | 90,707      | -           | 10,189       |
| 수송장비     | -                    | 29           | 637           | -                               | 2,249           | -            | -           | 104            | 23,645      | -           | 3,128        |
| 기타제조     | 2,680                | 180          | 154           | -                               | 9,584           | -            | -           | 480            | 3,417       | -           | 3,668        |
| 기타에너지    | -                    | -            | -             | -                               | 12,014          | -            | -           | 1              | -           | -           | 1,781        |
| 건설업      | 0                    | -            | -             | -                               | 13,445          | -            | -           | 13             | -           | -           | 2,083        |
| 수송       | -                    | -            | 969           | -                               | 250,712         | -            | -           | 696            | 4,720       | -           | 35,316       |
| 철도       | -                    | -            | -             | -                               | 401             | -            | -           | -              | 2,766       | -           | 295          |
| 도로       | -                    | -            | 969           | -                               | 240,784         | -            | -           | 696            | 1,955       | -           | 33,664       |
| 국내해운     | -                    | -            | -             | -                               | 3,051           | -            | -           | -              | -           | -           | 460          |
| 국내항공     | -                    | -            | -             | -                               | 6,476           | -            | -           | -              | -           | -           | 898          |
| 가정       | 356                  | -            | 10,198        | -                               | 15,045          | -            | -           | 516            | 79,886      | 2,281       | 22,058       |
| 상업 공공    | 34                   | -            | 3,460         | -                               | 26,720          | -            | 4           | 1,504          | 181,609     | 528         | 24,385       |
|          | Coal                 | Natural Gas  | City Gas      | Crude oil & refinery feedstocks | Petroleum       | Nuclear      | Hydro       | Renewables     | Electric    | Heat        | Total        |
|          | (Thou. Tons)         | (Thou. Tons) | (Mil. Mtr)    | (Thou. Barrels)                 | (Thou. Barrels) | (GWh)        | (GWh)       | (Thou. toe)    | (GWh)       | (Thou. toe) | (Thou. toe)  |

1. ①바이오 및 폐기물, ②지열, 태양 및 기타, ③기타에너지원

| 석탄 및<br>석탄제품 | 천연<br>가스    | 도시<br>가스 | 원유 및<br>정제원료                    | 석유제품      | 원자력     | 수력    | 신재생 <sup>1)</sup> | 전기       | 열     | 합계      |                                  |
|--------------|-------------|----------|---------------------------------|-----------|---------|-------|-------------------|----------|-------|---------|----------------------------------|
| (천toe)       |             |          |                                 |           |         |       |                   |          |       |         |                                  |
| 304          | -           | -        | -                               | -         | 38,445  | 792   | 16,902            | -        | 73    | 56,517  | Production                       |
| 72,434       | 57,705      | -        | 152,166                         | 44,455    | -       | -     | -                 | -        | -     | 326,760 | Imports                          |
| -0           | -           | -        | -466                            | -68,292   | -       | -     | -                 | -        | -     | -68,758 | Exports                          |
| -            | -12         | -        | -16,812                         | -         | -       | -     | -                 | -        | -     | -16,823 | International Bunkers            |
| 963          | -1,045      | -        | 738                             | -754      | -       | -     | 1                 | -        | -     | -98     | Stock changes                    |
| 73,700       | 56,648      | -        | 152,438                         | -41,402   | 38,445  | 792   | 16,903            | -        | 73    | 297,598 | Total primary energy supply      |
| -            | -           | -        | 24,755                          | -17,648   | -       | -     | -                 | -        | -     | 7,108   | Transfers                        |
| -1,216       | 801         | 180      | -523                            | 354       | -       | -     | -1                | -        | -     | -406    | Statistical differences          |
| 72,484       | 57,449      | 180      | 176,670                         | -58,696   | 38,445  | 792   | 16,902            | -        | 73    | 304,300 | Total primary energy consumption |
| -41,977      | -51,989     | 22,507   | -176,579                        | 158,996   | -38,445 | -792  | -9,547            | 50,262   | 2,815 | -84,747 | Transformation processes         |
| -41,977      | -19,795     | -        | -                               | -373      | -38,445 | -792  | -10,840           | 46,137   | -73   | -66,157 | Electricity-only plants          |
| -            | -8,482      | -267     | -                               | -64       | -       | -     | -192              | 4,125    | 2,440 | -2,440  | CHP plants                       |
| -            | -0          | -277     | -                               | -194      | -       | -     | -41               | -        | 448   | -64     | Heat-only plants                 |
| -            | -           | -        | -176,579                        | 159,887   | -       | -     | -                 | -        | -     | -16,692 | Petroleum Products               |
| -            | -           | -        | -                               | -259      | -       | -     | -                 | -        | -     | -0      | Gas manufacturing                |
| -23,712      | 23,971      | -        | -                               | -         | -       | -     | 212               | -        | -     | 212     | Coal-to-Gas plants               |
| -            | -           | -921     | -                               | -         | -       | -     | 1,313             | -        | -     | 392     | Non-specified Transformation     |
| -            | -2,642      | -582     | -92                             | -3,715    | -       | -     | -                 | -3,056   | -     | -10,087 | Transformation Own Use           |
| -            | 10          | -        | -                               | -         | -       | -     | -                 | -1,223   | -79   | -1,293  | Losses                           |
| 30,507       | 2,827       | 22,105   | -                               | 96,585    | -       | 1     | 7,355             | 45,982   | 2,809 | 208,172 | Total final consumption          |
| 30,324       | 2,827       | 7,199    | -                               | 58,334    | -       | -     | 4,640             | 23,088   | -     | 126,412 | Industry                         |
| 18           | -           | 4        | -                               | 1,219     | -       | -     | 157               | 1,615    | -     | 3,013   | Agriculture/forestry/Fishing     |
| -            | -           | -        | -                               | 81        | -       | -     | 0                 | 147      | -     | 228     | Mining and quarrying             |
| 30,306       | 2,827       | 7,195    | -                               | 54,964    | -       | -     | 4,470             | 21,326   | -     | 121,088 | Manufacturing                    |
| 4            | -           | 877      | -                               | 40        | -       | -     | 125               | 1,204    | -     | 2,250   | Food and tobacco                 |
| 903          | -           | 177      | -                               | 15        | -       | -     | 180               | 675      | -     | 1,950   | Textile and leather              |
| -            | -           | 29       | -                               | 6         | -       | -     | 107               | 142      | -     | 284     | Wood and wood products           |
| -            | 381         | 277      | -                               | 221       | -       | -     | 849               | 8,833    | -     | 2,417   | Paper, pulp and print            |
| 3,178        | 201         | 1,583    | -                               | 51,061    | -       | -     | 1,507             | 4,592    | -     | 62,121  | Chemical and petrochemical       |
| 2,039        | -           | 491      | -                               | 517       | -       | -     | 779               | 984      | -     | 4,809   | Non-metallic minerals            |
| 22,067       | 1,057       | 1,088    | -                               | 58        | -       | -     | 12                | 2,089    | -     | 26,370  | Iron and steel                   |
| 468          | 366         | 485      | -                               | 47        | -       | -     | -                 | 754      | -     | 2,120   | Non-ferrous metals               |
| 174          | 432         | 1,377    | -                               | 78        | -       | -     | 327               | 7,801    | -     | 10,189  | Machinery                        |
| -            | 38          | 649      | -                               | 304       | -       | -     | 104               | 2,033    | -     | 3,128   | Transport Equipment              |
| 1,474        | 235         | 157      | -                               | 1,029     | -       | -     | 480               | 294      | -     | 3,668   | Other manufacturing              |
| -            | -           | -        | -                               | 1,780     | -       | -     | 1                 | -        | -     | 1,781   | Other energy                     |
| 0            | -           | -        | -                               | 2,070     | -       | -     | 13                | -        | -     | 2,083   | Construction                     |
| -            | -           | 988      | -                               | 33,226    | -       | -     | 696               | 406      | -     | 35,316  | Transport                        |
| -            | -           | -        | -                               | 58        | -       | -     | -                 | 238      | -     | 295     | Rail                             |
| -            | -           | 988      | -                               | 31,811    | -       | -     | 696               | 168      | -     | 33,664  | Road                             |
| -            | -           | -        | -                               | 460       | -       | -     | -                 | -        | -     | 460     | Domestic navigation              |
| -            | -           | -        | -                               | 898       | -       | -     | -                 | -        | -     | 898     | Domestic aviation                |
| 168          | -           | 10,392   | -                               | 1,832     | -       | -     | 516               | 6,870    | 2,281 | 22,058  | Residential                      |
| 16           | -           | 3,526    | -                               | 3,193     | -       | 1     | 1,504             | 15,618   | 528   | 24,385  | Commercial Public                |
| Coal         | Natural Gas | City Gas | Crude oil & refinery feedstocks | Petroleum | Nuclear | Hydro | Renewables        | Electric | Heat  | Total   |                                  |
| (Thou. toe)  |             |          |                                 |           |         |       |                   |          |       |         |                                  |

1. ① Biofuels and waste, ② Geothermal, solar, etc., ③ Other sources



# 03

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## 주요국의 에너지통계

Energy Statistics  
in Selected Country



## 03 주요국의 에너지통계

- 3-1. 주요 에너지·경제 통계(2022년)
- 3-2. OECD 국가별 에너지 수입·수출(2023년)
- 3-3. 주요국 일차에너지 공급(2023년)
- 3-4. 주요국 전력 소비
- 3-5. OECD 국가별 최종에너지 소비(2022년)
- 3-6. OECD 국가별 경제활동별 부가가치(2022년)
- 3-7. 에너지원별 국제 가격
- 3-8. 주요국 CO<sub>2</sub> 배출량
- 3-9. 주요국 석유정제 능력

## 03 Energy Statistics in Selected Country



- 3-1. Major Energy and Economic Statistics(2022)
- 3-2. Energy Imports and Exports in OECD Countries(2023)
- 3-3. Primary Energy Supply in Selected Countries(2023)
- 3-4. Electricity Consumption in Selected Countries
- 3-5. Final Energy Consumption in OECD Countries(2022)
- 3-6. Gross Value Added in OECD Countries(2022)
- 3-7. International Prices by Energy Source
- 3-8. CO<sub>2</sub> Emissions in Selected Countries
- 3-9. Refinery Capacities in Selected Countries

## 3-1. 주요 에너지·경제 통계(2022년)

|                    | 인구<br>(백만명)             | GDP<br>(2015년 십억달러)    | GDP(PPP)<br>(2015년 십억달러)    | 에너지생산<br>(백만toe)                    | 에너지수입<br>(백만toe)          | 일차에너지<br>(백만toe)   | 전력소비 <sup>1</sup><br>(TWh)                 | CO <sub>2</sub> 배출량 <sup>2</sup><br>(백만톤 CO <sub>2</sub> eq.)                |
|--------------------|-------------------------|------------------------|-----------------------------|-------------------------------------|---------------------------|--------------------|--------------------------------------------|------------------------------------------------------------------------------|
| 세계                 | 7,946.9                 | 90,146.1               | 137,200.0                   | 15,071.9                            | -51.3                     | 14,860.0           | 27,231.3                                   | 34,116.8                                                                     |
| OECD               | 1,379.2                 | 53,871.6               | 61,570.5                    | 4,633.4                             | 736.5                     | 5,189.8            | 10,671.6                                   | 10,796.7                                                                     |
| 중동                 | 264.5                   | 2,453.1                | 5,250.0                     | 2,065.7                             | -1,185.1                  | 836.1              | 1,159.7                                    | 1,933.7                                                                      |
| 비OECD 유럽 및<br>유라시아 | 336.4                   | 2,634.1                | 6,816.1                     | 1,922.8                             | -688.6                    | 1,189.4            | 1,632.8                                    | 2,509.6                                                                      |
| 중국<br>(홍콩 포함)      | 1,419.5                 | 16,721.0               | 26,813.3                    | 3,138.4                             | 808.5                     | 3,811.1            | 8,678.2                                    | 10,644.3                                                                     |
| 비OECD<br>아시아(중국제외) | 2,667.4                 | 7,916.3                | 23,290.9                    | 1,651.2                             | 534.8                     | 2,098.4            | 3,336.1                                    | 4,914.5                                                                      |
| 비OECD<br>아메리카      | 455.1                   | 3,671.7                | 6,283.2                     | 629.0                               | -35.9                     | 575.7              | 989.4                                      | 924.9                                                                        |
| 아프리카               | 1,424.8                 | 2,895.4                | 6,283.2                     | 1,031.3                             | -221.4                    | 796.2              | 763.5                                      | 1,218.5                                                                      |
| 알바니아               | 2.8                     | 14.3                   | 42.2                        | 1.6                                 | 0.7                       | 2.2                | 7.0                                        | 3.6                                                                          |
| 알제리                | 44.9                    | 206.8                  | 594.9                       | 155.6                               | -86.7                     | 68.2               | 79.9                                       | 151.0                                                                        |
| 앙골라                | 35.6                    | 109.0                  | 191.9                       | 69.0                                | -53.4                     | 15.1               | 14.0                                       | 21.6                                                                         |
| 아르헨티나              | 46.2                    | 646.3                  | 872.4                       | 82.2                                | 1.6                       | 82.1               | 128.6                                      | 174.3                                                                        |
| 아르메니아              | 2.8                     | 14.2                   | 39.3                        | 1.1                                 | 3.1                       | 4.0                | 7.1                                        | 7.0                                                                          |
| 호주                 | 26.0                    | 1,458.6                | 1,314.7                     | 434.4                               | -301.2                    | 127.2              | 258.4                                      | 354.8                                                                        |
| 오스트리아              | 9.1                     | 422.3                  | 476.5                       | 11.7                                | 24.2                      | 31.1               | 74.7                                       | 56.8                                                                         |
| 아제르바이잔             | 10.2                    | 56.6                   | 154.0                       | 64.0                                | -45.7                     | 17.5               | 24.0                                       | 36.4                                                                         |
| 바레인                | 1.5                     | 35.9                   | 72.3                        | 24.2                                | -7.4                      | 16.3               | 34.6                                       | 34.4                                                                         |
| 방글라데시              | 171.2                   | 366.0                  | 1,116.9                     | 28.7                                | 22.3                      | 50.3               | 102.1                                      | 103.9                                                                        |
| 벨라루스               | 9.2                     | 57.1                   | 173.6                       | 6.2                                 | 20.4                      | 26.4               | 36.0                                       | 50.5                                                                         |
| 벨기에                | 11.7                    | 516.4                  | 581.9                       | 16.3                                | 43.9                      | 50.6               | 85.1                                       | 78.8                                                                         |
| 베냉                 | 13.4                    | 16.8                   | 44.9                        | 3.1                                 | 2.1                       | 5.2                | 1.4                                        | 5.8                                                                          |
| 볼리비아               | 12.2                    | 38.6                   | 90.0                        | 16.2                                | -6.5                      | 9.6                | 10.4                                       | 21.6                                                                         |
| 보스니아헤르체고비나         | 3.2                     | 20.3                   | 51.5                        | 5.3                                 | 1.9                       | 7.3                | 12.1                                       | 20.6                                                                         |
| 보츠와나               | 2.6                     | 17.5                   | 40.0                        | 2.2                                 | 0.7                       | 2.8                | 3.7                                        | 6.5                                                                          |
| 브라질                | 215.3                   | 1,897.2                | 3,177.5                     | 329.4                               | -21.6                     | 300.5              | 586.3                                      | 413.9                                                                        |
| 브루나이               | 0.4                     | 13.0                   | 26.1                        | 12.1                                | -7.5                      | 4.3                | 5.1                                        | 9.1                                                                          |
|                    | Population<br>(Million) | GDP<br>(Bil. 2015 USD) | GDP(PPP)<br>(Bil. 2015 USD) | Energy<br>Productions<br>(Mil. toe) | Net Imports<br>(Mil. toe) | TPES<br>(Mil. toe) | Elec.<br>Consumption <sup>1</sup><br>(TWh) | CO <sub>2</sub><br>Emissions <sup>2</sup><br>(Mil. Tons CO <sub>2</sub> eq.) |

1. 총생산량+수입량-수출량-손실량

2. 연소에 의한 CO<sub>2</sub> 배출량만이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출됨. 또한 비에너지로부터의 배출량은 제외함.

3. 세계 일차에너지공급은 전력 및 열 무역뿐만 아니라 국제 항공 및 해상 병커링을 포함.

4. 세계 CO<sub>2</sub> 배출량은 국제 항공 및 해상 병커링으로부터의 배출량을 포함.

자료: OECD Data explorer



### 3-1. Major Energy and Economic Statistics(2022)

| 일차에너지/<br>인구<br>(toe/인) | 일차에너지/<br>GDP<br>(toe/천달러) | 일차에너지/<br>GDP(PPP)<br>(toe/천달러) | 전력소비/<br>인구<br>(kWh/인)        | CO <sub>2</sub> /<br>일차에너지<br>(톤 CO <sub>2</sub> eq./toe) | CO <sub>2</sub> /인구<br>(톤 CO <sub>2</sub> eq./인) | CO <sub>2</sub> /GDP<br>(kg CO <sub>2</sub> eq./달러) | CO <sub>2</sub> /<br>GDP(PPP)<br>(kg CO <sub>2</sub> eq./달러) |                                        |
|-------------------------|----------------------------|---------------------------------|-------------------------------|-----------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|----------------------------------------|
| 1.87                    | 0.16                       | 0.11                            | 3,427                         | 2.30                                                      | 4.29                                             | 0.38                                                | 0.25                                                         | World                                  |
| 3.76                    | 0.10                       | 0.08                            | 23,972                        | 2.08                                                      | 7.83                                             | 0.20                                                | 0.18                                                         | OECD                                   |
| 3.16                    | 0.34                       | 0.16                            | 4,384                         | 2.31                                                      | 7.31                                             | 0.79                                                | 0.37                                                         | Middle East                            |
| 3.54                    | 0.45                       | 0.17                            | 4,853                         | 2.11                                                      | 7.46                                             | 0.95                                                | 0.37                                                         | Non-OECD Europe<br>and Eurasia         |
| 2.68                    | 0.23                       | 0.14                            | 6,113                         | 2.79                                                      | 7.50                                             | 0.64                                                | 0.40                                                         | China (P.R. of China<br>and Hong Kong) |
| 0.79                    | 0.27                       | 0.09                            | 1,251                         | 2.34                                                      | 1.84                                             | 0.62                                                | 0.21                                                         | Non-OECD<br>Asia(excluding China)      |
| 1.27                    | 0.16                       | 0.09                            | 2,174                         | 1.61                                                      | 2.03                                             | 0.25                                                | 0.15                                                         | Non-OECD Americas                      |
| 0.56                    | 0.27                       | 0.13                            | 536                           | 1.53                                                      | 0.86                                             | 0.42                                                | 0.19                                                         | Africa                                 |
| 0.78                    | 0.15                       | 0.05                            | 2,510                         | 1.67                                                      | 1.30                                             | 0.25                                                | 0.09                                                         | Albania                                |
| 1.52                    | 0.33                       | 0.11                            | 1,704                         | 2.21                                                      | 3.36                                             | 0.73                                                | 0.25                                                         | Algeria                                |
| 0.42                    | 0.14                       | 0.08                            | 432                           | 1.43                                                      | 0.61                                             | 0.20                                                | 0.11                                                         | Angola                                 |
| 1.78                    | 0.13                       | 0.09                            | 2,911                         | 2.12                                                      | 3.77                                             | 0.27                                                | 0.20                                                         | Argentina                              |
| 1.44                    | 0.28                       | 0.10                            | 2,401                         | 1.76                                                      | 2.53                                             | 0.50                                                | 0.18                                                         | Armenia                                |
| 4.89                    | 0.09                       | 0.10                            | 9,828                         | 2.79                                                      | 13.64                                            | 0.24                                                | 0.27                                                         | Australia                              |
| 3.44                    | 0.07                       | 0.07                            | 8,382                         | 1.83                                                      | 6.27                                             | 0.13                                                | 0.12                                                         | Austria                                |
| 1.71                    | 0.31                       | 0.11                            | 2,389                         | 2.09                                                      | 3.58                                             | 0.64                                                | 0.24                                                         | Azerbaijan                             |
| 11.09                   | 0.45                       | 0.23                            | 22,482                        | 2.11                                                      | 23.38                                            | 0.96                                                | 0.48                                                         | Bahrain                                |
| 0.29                    | 0.14                       | 0.05                            | 550                           | 2.06                                                      | 0.61                                             | 0.28                                                | 0.09                                                         | Bangladesh                             |
| 2.87                    | 0.46                       | 0.15                            | 3,911                         | 1.91                                                      | 5.49                                             | 0.88                                                | 0.29                                                         | Belarus                                |
| 4.33                    | 0.10                       | 0.09                            | 7,283                         | 1.56                                                      | 6.75                                             | 0.15                                                | 0.14                                                         | Belgium                                |
| 0.39                    | 0.31                       | 0.12                            | 117                           | 1.12                                                      | 0.43                                             | 0.35                                                | 0.13                                                         | Benin                                  |
| 0.79                    | 0.25                       | 0.11                            | 820                           | 2.24                                                      | 1.77                                             | 0.56                                                | 0.24                                                         | Bolivia                                |
| 2.25                    | 0.36                       | 0.14                            | 3,805                         | 2.83                                                      | 6.37                                             | 1.02                                                | 0.40                                                         | Bosnia and<br>Herzegovina              |
| 1.08                    | 0.16                       | 0.07                            | 1,381                         | 2.28                                                      | 2.46                                             | 0.37                                                | 0.16                                                         | Botswana                               |
| 1.40                    | 0.16                       | 0.09                            | 2,663                         | 1.38                                                      | 1.92                                             | 0.22                                                | 0.13                                                         | Brazil                                 |
| 9.67                    | 0.33                       | 0.17                            | 11,656                        | 2.10                                                      | 20.33                                            | 0.70                                                | 0.35                                                         | Brunei Darussalam                      |
| TPES/Pop.               | TPES/GDP                   | TPES/<br>GDP(PPP)               | Elec.<br>Consumption/<br>Pop. | CO <sub>2</sub> /TPES                                     | CO <sub>2</sub> /Pop.                            | CO <sub>2</sub> /GDP                                | CO <sub>2</sub> /GDP(PPP)                                    |                                        |
| (toe/Capita)            | (toe/Thou. USD)            | (toe/Thou. USD)                 | (kWh/Capita)                  | (Tons CO <sub>2</sub> eq./toe)                            | (Tons CO <sub>2</sub> eq./Capita)                | (kg CO <sub>2</sub> eq./USD)                        | (kg CO <sub>2</sub> eq./USD)                                 |                                        |

1. Gross production+imports-exports-losses.

2. CO<sub>2</sub> emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines, and exclude emissions from non-energy.

3. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade.

4. CO<sub>2</sub> emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD Data explorer



## 3-1. 주요에너지·경제 통계(2022년, 계속)

|          | 인구<br>(백만명)             | GDP<br>(2015년 십억달러)    | GDP(PPP)<br>(2015년 십억달러)    | 에너지생산<br>(백만toe)                    | 에너지순수입<br>(백만toe)         | 일차에너지<br>(백만toe)   | 전력소비 <sup>1</sup><br>(TWh)                 | CO <sub>2</sub> 배출량 <sup>2</sup><br>(백만톤 CO <sub>2</sub> eq.)                |
|----------|-------------------------|------------------------|-----------------------------|-------------------------------------|---------------------------|--------------------|--------------------------------------------|------------------------------------------------------------------------------|
| 불가리아     | 6.5                     | 61.7                   | 160.4                       | 13.0                                | 7.3                       | 19.2               | 35.8                                       | 42.8                                                                         |
| 감보디아     | 16.8                    | 34.7                   | 100.8                       | 3.5                                 | 5.2                       | 8.6                | 14.0                                       | 14.7                                                                         |
| 카메룬      | 27.9                    | 40.5                   | 99.4                        | 13.7                                | -3.0                      | 10.2               | 7.8                                        | 6.7                                                                          |
| 캐나다      | 38.9                    | 1,761.1                | 1,804.6                     | 560.4                               | -260.6                    | 297.2              | 568.2                                      | 523.3                                                                        |
| 칠레       | 19.8                    | 279.1                  | 466.5                       | 14.6                                | 27.5                      | 41.4               | 86.5                                       | 86.6                                                                         |
| 중국       | 1,412.2                 | 16,403.1               | 26,390.6                    | 3,138.2                             | 788.2                     | 3,799.5            | 8,631.4                                    | 10,613.2                                                                     |
| 콜롬비아     | 50.5                    | 354.6                  | 761.7                       | 105.0                               | -64.9                     | 40.1               | 80.1                                       | 73.3                                                                         |
| 콩고       | 6.0                     | 10.2                   | 19.2                        | 17.1                                | -13.2                     | 3.8                | 2.8                                        | 4.4                                                                          |
| 코스타리카    | 5.2                     | 69.6                   | 102.1                       | 2.6                                 | 2.7                       | 5.1                | 10.8                                       | 7.6                                                                          |
| 코트디부아르   | 28.2                    | 68.0                   | 160.4                       | 12.5                                | 2.1                       | 14.3               | 9.8                                        | 16.0                                                                         |
| 크로아티아    | 3.9                     | 64.0                   | 123.9                       | 3.7                                 | 5.1                       | 8.3                | 17.3                                       | 15.7                                                                         |
| 쿠바       | 11.2                    | 83.5                   | 259.5                       | 3.7                                 | 5.7                       | 9.0                | 12.2                                       | 19.2                                                                         |
| 퀴라소      | 0.2                     | 2.6                    | 3.3                         | 0.0                                 | 2.7                       | 0.9                | 0.8                                        | 2.3                                                                          |
| 키프로스     | 0.9                     | 27.9                   | 37.9                        | 0.2                                 | 2.6                       | 2.2                | 5.1                                        | 6.1                                                                          |
| 체코       | 10.7                    | 215.9                  | 410.6                       | 25.3                                | 17.5                      | 41.6               | 67.9                                       | 90.7                                                                         |
| 북한       | 26.1                    | 28.6                   | 107.3                       | 16.0                                | 0.8                       | 16.9               | 21.8                                       | 56.6                                                                         |
| 콩고 민주공화국 | 99.0                    | 53.7                   | 97.7                        | 39.5                                | 0.6                       | 40.0               | 13.4                                       | 4.8                                                                          |
| 덴마크      | 5.9                     | 356.2                  | 328.2                       | 9.5                                 | 7.4                       | 15.5               | 34.7                                       | 26.8                                                                         |
| 도미니카공화국  | 11.2                    | 98.2                   | 208.8                       | 1.1                                 | 10.1                      | 10.7               | 19.3                                       | 29.2                                                                         |
| 에콰도르     | 18.0                    | 109.6                  | 197.9                       | 28.2                                | -11.2                     | 16.1               | 28.3                                       | 38.4                                                                         |
| 이집트      | 111.0                   | 482.6                  | 1,546.7                     | 92.7                                | 9.4                       | 101.4              | 161.4                                      | 217.8                                                                        |
| 엘살바도르    | 6.3                     | 27.3                   | 56.0                        | 2.1                                 | 2.9                       | 4.8                | 7.0                                        | 7.8                                                                          |
| 에리트레아    | 3.7                     | 2.4                    | 6.4                         | 0.8                                 | 0.2                       | 1.0                | 0.3                                        | 0.7                                                                          |
| 에스토니아    | 1.3                     | 28.5                   | 47.8                        | 4.7                                 | 0.3                       | 4.8                | 8.7                                        | 9.9                                                                          |
| 에티오피아    | 123.4                   | 105.7                  | 280.0                       | 43.2                                | 5.1                       | 47.4               | 11.6                                       | 14.6                                                                         |
| 핀란드      | 5.6                     | 259.2                  | 257.4                       | 19.3                                | 13.4                      | 31.6               | 82.0                                       | 34.0                                                                         |
| 프랑스      | 68.5                    | 2,637.7                | 2,940.2                     | 104.0                               | 114.8                     | 211.2              | 454.5                                      | 283.0                                                                        |
| 가봉       | 2.4                     | 15.9                   | 31.6                        | 14.9                                | -9.6                      | 5.1                | 2.6                                        | 2.6                                                                          |
| 조지아      | 3.7                     | 21.3                   | 64.1                        | 1.3                                 | 4.6                       | 5.7                | 13.7                                       | 11.0                                                                         |
|          | Population<br>(Million) | GDP<br>(Bil. 2015 USD) | GDP(PPP)<br>(Bil. 2015 USD) | Energy<br>Productions<br>(Mil. toe) | Net Imports<br>(Mil. toe) | TPES<br>(Mil. toe) | Elec.<br>Consumption <sup>1</sup><br>(TWh) | CO <sub>2</sub><br>Emissions <sup>2</sup><br>(Mil. Tons CO <sub>2</sub> eq.) |

1. 총생산량+수입량-수출량-손실량

2. 연소에 의한 CO<sub>2</sub> 배출량이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출됨. 또한 비에너지로부터의 배출량은 제외함.

3. 세계 일차에너지공급은 전력 및 열 무역뿐만 아니라 국제 항공 및 해상 병커링을 포함.

4. 세계 CO<sub>2</sub> 배출량은 국제 항공 및 해상 병커링으로부터의 배출량을 포함.

자료: OECD Data explorer

### 3-1. Major Energy and Economic Statistics(2022, Continued)

| 일차에너지/<br>인구<br>(toe/인)   | 일차에너지/<br>GDP<br>(toe/천달러)  | 일차에너지/<br>GDP(PPP)<br>(toe/천달러)      | 전력소비/<br>인구<br>(kWh/인)                        | CO <sub>2</sub> /<br>일차에너지<br>(톤 CO <sub>2</sub> eq./toe) | CO <sub>2</sub> /인구<br>(톤 CO <sub>2</sub> eq./인)           | CO <sub>2</sub> /GDP<br>(kg CO <sub>2</sub> eq./달러)  | CO <sub>2</sub> /<br>GDP(PPP)<br>(kg CO <sub>2</sub> eq./달러) |                        |
|---------------------------|-----------------------------|--------------------------------------|-----------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|------------------------|
| 2.97                      | 0.31                        | 0.12                                 | 5,537                                         | 2.23                                                      | 6.63                                                       | 0.69                                                 | 0.27                                                         | Bulgaria               |
| 0.51                      | 0.25                        | 0.09                                 | 834                                           | 1.70                                                      | 0.87                                                       | 0.42                                                 | 0.15                                                         | Cambodia               |
| 0.36                      | 0.25                        | 0.10                                 | 281                                           | 0.66                                                      | 0.24                                                       | 0.17                                                 | 0.07                                                         | Cameroon               |
| 7.63                      | 0.17                        | 0.16                                 | 14,591                                        | 1.76                                                      | 13.44                                                      | 0.30                                                 | 0.29                                                         | Canada                 |
| 2.09                      | 0.15                        | 0.09                                 | 4,361                                         | 2.09                                                      | 4.37                                                       | 0.31                                                 | 0.19                                                         | Chile                  |
| 2.69                      | 0.23                        | 0.14                                 | 6,112                                         | 2.79                                                      | 7.52                                                       | 0.65                                                 | 0.40                                                         | People's Rep. of China |
| 0.79                      | 0.11                        | 0.05                                 | 1,587                                         | 1.83                                                      | 1.45                                                       | 0.21                                                 | 0.10                                                         | Colombia               |
| 0.63                      | 0.37                        | 0.20                                 | 464                                           | 1.16                                                      | 0.74                                                       | 0.43                                                 | 0.23                                                         | Congo                  |
| 0.98                      | 0.07                        | 0.05                                 | 2,073                                         | 1.48                                                      | 1.45                                                       | 0.11                                                 | 0.07                                                         | Costa Rica             |
| 0.51                      | 0.21                        | 0.09                                 | 349                                           | 1.12                                                      | 0.57                                                       | 0.24                                                 | 0.10                                                         | Côte d'Ivoire          |
| 2.16                      | 0.13                        | 0.07                                 | 4,477                                         | 1.89                                                      | 4.07                                                       | 0.24                                                 | 0.13                                                         | Croatia                |
| 0.80                      | 0.11                        | 0.03                                 | 1,087                                         | 2.13                                                      | 1.71                                                       | 0.23                                                 | 0.07                                                         | Cuba                   |
| 5.80                      | 0.33                        | 0.27                                 | 5,145                                         | 2.62                                                      | 15.17                                                      | 0.87                                                 | 0.69                                                         | Curacao                |
| 2.48                      | 0.08                        | 0.06                                 | 5,662                                         | 2.71                                                      | 6.72                                                       | 0.22                                                 | 0.16                                                         | Cyprus                 |
| 3.89                      | 0.19                        | 0.10                                 | 6,353                                         | 2.18                                                      | 8.49                                                       | 0.42                                                 | 0.22                                                         | Czech Republic         |
| 0.65                      | 0.59                        | 0.16                                 | 838                                           | 3.36                                                      | 2.17                                                       | 1.98                                                 | 0.53                                                         | DPR of Korea           |
| 0.40                      | 0.75                        | 0.41                                 | 135                                           | 0.12                                                      | 0.05                                                       | 0.09                                                 | 0.05                                                         | Dem. Rep. of the Congo |
| 2.63                      | 0.04                        | 0.05                                 | 5,867                                         | 1.72                                                      | 4.53                                                       | 0.08                                                 | 0.08                                                         | Denmark                |
| 0.95                      | 0.11                        | 0.05                                 | 1,717                                         | 2.74                                                      | 2.60                                                       | 0.30                                                 | 0.14                                                         | Dominican Republic     |
| 0.90                      | 0.15                        | 0.08                                 | 1,574                                         | 2.38                                                      | 2.13                                                       | 0.35                                                 | 0.19                                                         | Ecuador                |
| 0.91                      | 0.21                        | 0.07                                 | 1,454                                         | 2.15                                                      | 1.96                                                       | 0.45                                                 | 0.14                                                         | Egypt                  |
| 0.76                      | 0.18                        | 0.09                                 | 1,100                                         | 1.62                                                      | 1.24                                                       | 0.29                                                 | 0.14                                                         | El Salvador            |
| 0.27                      | 0.40                        | 0.15                                 | 95                                            | 0.67                                                      | 0.18                                                       | 0.27                                                 | 0.10                                                         | Eritrea                |
| 3.60                      | 0.17                        | 0.10                                 | 6,546                                         | 2.07                                                      | 7.45                                                       | 0.35                                                 | 0.21                                                         | Estonia                |
| 0.38                      | 0.45                        | 0.17                                 | 94                                            | 0.31                                                      | 0.12                                                       | 0.14                                                 | 0.05                                                         | Ethiopia               |
| 5.68                      | 0.12                        | 0.12                                 | 14,747                                        | 1.08                                                      | 6.12                                                       | 0.13                                                 | 0.13                                                         | Finland                |
| 3.08                      | 0.08                        | 0.07                                 | 6,638                                         | 1.34                                                      | 4.13                                                       | 0.11                                                 | 0.10                                                         | France                 |
| 2.13                      | 0.32                        | 0.16                                 | 1,084                                         | 0.50                                                      | 1.07                                                       | 0.16                                                 | 0.08                                                         | Gabon                  |
| 1.54                      | 0.27                        | 0.09                                 | 3,682                                         | 1.92                                                      | 2.97                                                       | 0.52                                                 | 0.17                                                         | Georgia                |
| TPES/Pop.<br>(toe/Capita) | TPES/GDP<br>(toe/Thou. USD) | TPES/<br>GDP(PPP)<br>(toe/Thou. USD) | Elec.<br>Consumption/<br>Pop.<br>(kWh/Capita) | CO <sub>2</sub> /TPES<br>(Tons CO <sub>2</sub> eq./toe)   | CO <sub>2</sub> /Pop.<br>(Tons CO <sub>2</sub> eq./Capita) | CO <sub>2</sub> /GDP<br>(kg CO <sub>2</sub> eq./USD) | CO <sub>2</sub> /GDP(PPP)<br>(kg CO <sub>2</sub> eq./USD)    |                        |

1. Gross production+imports-exports-losses.

2. CO<sub>2</sub> emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines, and exclude emissions from non-energy.

3. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade.

4. CO<sub>2</sub> emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD Data explorer

## 3-1. 주요에너지·경제 통계(2022년, 계속)

|           | 인구<br>(백만명)             | GDP<br>(2015년 십억달러)    | GDP(PPP)<br>(2015년 십억달러)    | 에너지생산<br>(백만toe)                    | 에너지수입<br>(백만toe)          | 일차에너지<br>(백만toe)   | 전력소비 <sup>1</sup><br>(TWh)                 | CO <sub>2</sub> 배출량 <sup>2</sup><br>(백만톤 CO <sub>2</sub> eq.)                |
|-----------|-------------------------|------------------------|-----------------------------|-------------------------------------|---------------------------|--------------------|--------------------------------------------|------------------------------------------------------------------------------|
| 독일        | 83.8                    | 3,633.9                | 4,209.8                     | 95.7                                | 194.4                     | 271.2              | 526.7                                      | 612.0                                                                        |
| 가나        | 33.5                    | 68.0                   | 199.6                       | 14.7                                | -2.7                      | 11.9               | 18.3                                       | 19.9                                                                         |
| 지브롤터      | 0.0                     | -                      | -                           | -                                   | 4.8                       | 0.3                | 0.2                                        | 0.6                                                                          |
| 그리스       | 10.6                    | 211.6                  | 313.1                       | 5.0                                 | 19.0                      | 20.5               | 50.4                                       | 50.8                                                                         |
| 과테말라      | 17.4                    | 78.2                   | 160.4                       | 10.7                                | 6.1                       | 16.0               | 12.1                                       | 17.0                                                                         |
| 아이티       | 11.6                    | 14.4                   | 30.2                        | 3.4                                 | 1.0                       | 4.3                | 0.9                                        | 3.0                                                                          |
| 온두라스      | 10.4                    | 26.0                   | 54.4                        | 2.7                                 | 3.3                       | 6.0                | 7.9                                        | 9.9                                                                          |
| 홍콩        | 7.3                     | 318.0                  | 422.7                       | 0.1                                 | 20.2                      | 11.5               | 46.8                                       | 31.1                                                                         |
| 헝가리       | 9.7                     | 157.5                  | 332.1                       | 10.8                                | 16.5                      | 25.7               | 45.1                                       | 42.5                                                                         |
| 아이슬란드     | 0.4                     | 22.1                   | 20.5                        | 5.3                                 | 1.1                       | 6.1                | 19.6                                       | 1.6                                                                          |
| 인도        | 1,417.2                 | 2,973.5                | 10,120.7                    | 664.2                               | 363.2                     | 1,015.3            | 1,532.1                                    | 2,517.0                                                                      |
| 인도네시아     | 275.5                   | 1,122.3                | 3,451.7                     | 492.6                               | -221.4                    | 260.9              | 350.6                                      | 651.7                                                                        |
| 이란        | 88.6                    | 487.8                  | 1,351.3                     | 384.5                               | -95.0                     | 292.4              | 328.0                                      | 696.4                                                                        |
| 이라크       | 44.5                    | 208.4                  | 433.6                       | 234.0                               | -171.0                    | 62.2               | 60.5                                       | 170.2                                                                        |
| 아일랜드      | 5.1                     | 499.0                  | 555.6                       | 3.0                                 | 11.7                      | 13.6               | 31.6                                       | 33.0                                                                         |
| 이스라엘      | 9.6                     | 408.2                  | 404.3                       | 19.4                                | 6.2                       | 23.9               | 65.4                                       | 59.6                                                                         |
| 이탈리아      | 59.0                    | 1,966.7                | 2,400.0                     | 32.0                                | 119.0                     | 142.3              | 307.8                                      | 310.3                                                                        |
| 자메이카      | 2.8                     | 14.7                   | 26.5                        | 0.2                                 | 3.1                       | 2.8                | 3.3                                        | 7.1                                                                          |
| 일본        | 124.9                   | 4,529.9                | 5,300.4                     | 49.5                                | 352.9                     | 392.4              | 976.4                                      | 973.7                                                                        |
| 요르단       | 11.3                    | 44.0                   | 99.8                        | 0.9                                 | 8.2                       | 8.5                | 20.2                                       | 21.4                                                                         |
| 카자흐스탄     | 19.6                    | 220.3                  | 486.7                       | 160.3                               | -87.1                     | 71.4               | 105.6                                      | 225.9                                                                        |
| 케냐        | 54.0                    | 95.1                   | 238.4                       | 23.3                                | 6.6                       | 29.3               | 10.3                                       | 17.8                                                                         |
| <b>한국</b> | <b>51.6</b>             | <b>1,740.9</b>         | <b>2,296.4</b>              | <b>57.8</b>                         | <b>239.1</b>              | <b>279.7</b>       | <b>593.9</b>                               | <b>549.3</b>                                                                 |
| 코소보       | 1.8                     | 8.3                    | 21.9                        | 1.8                                 | 0.9                       | 2.7                | 6.7                                        | 8.5                                                                          |
| 쿠웨이트      | 4.3                     | 119.4                  | 188.7                       | 165.4                               | -118.6                    | 41.9               | 76.1                                       | 94.1                                                                         |
| 키르기스스탄    | 6.8                     | 8.2                    | 30.9                        | 2.7                                 | 1.5                       | 4.5                | 13.8                                       | 9.1                                                                          |
| 라트비아      | 1.9                     | 32.0                   | 57.9                        | 2.9                                 | 1.8                       | 4.2                | 6.9                                        | 6.0                                                                          |
| 레바논       | 5.5                     | 31.5                   | 62.0                        | 0.4                                 | 3.4                       | 3.6                | 3.9                                        | 9.4                                                                          |
| 리비아       | 6.8                     | 50.6                   | 142.6                       | 64.5                                | -45.8                     | 18.3               | 28.7                                       | 44.7                                                                         |
| 리투아니아     | 2.8                     | 52.5                   | 106.1                       | 2.0                                 | 5.2                       | 6.9                | 12.5                                       | 11.0                                                                         |
| 룩셈부르크     | 0.7                     | 71.7                   | 73.3                        | 0.3                                 | 3.5                       | 3.2                | 7.6                                        | 6.7                                                                          |
|           | Population<br>(Million) | GDP<br>(Bil. 2015 USD) | GDP(PPP)<br>(Bil. 2015 USD) | Energy<br>Productions<br>(Mil. toe) | Net Imports<br>(Mil. toe) | TPES<br>(Mil. toe) | Elec.<br>Consumption <sup>1</sup><br>(TWh) | CO <sub>2</sub><br>Emissions <sup>2</sup><br>(Mil. Tons CO <sub>2</sub> eq.) |

1. 총생산량+수입량-수출량-손실량  
 2. 연소에 의한 CO<sub>2</sub> 배출량만이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출됨. 또한 비에너지로부터의 배출량은 제외함.  
 3. 세계 일차에너지공급은 전력 및 열 무역뿐만 아니라 국제 항공 및 해상 병커링을 포함.  
 4. 세계 CO<sub>2</sub> 배출량은 국제 항공 및 해상 병커링으로부터의 배출량을 포함.  
 자료: OECD Data explorer

### 3-1. Major Energy and Economic Statistics(2022, Continued)

| 일차에너지/<br>인구<br>(toe/인)   | 일차에너지/<br>GDP<br>(toe/천달러)  | 일차에너지/<br>GDP(PPP)<br>(toe/천달러)      | 전력소비/<br>인구<br>(kWh/인)                        | CO <sub>2</sub> /<br>일차에너지<br>(톤 CO <sub>2</sub> eq./toe) | CO <sub>2</sub> /인구<br>(톤 CO <sub>2</sub> eq./인)           | CO <sub>2</sub> /GDP<br>(kg CO <sub>2</sub> eq./달러)  | CO <sub>2</sub> /<br>GDP(PPP)<br>(kg CO <sub>2</sub> eq./달러) |                      |
|---------------------------|-----------------------------|--------------------------------------|-----------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|----------------------|
| 3.24                      | 0.07                        | 0.06                                 | 6,285                                         | 2.26                                                      | 7.30                                                       | 0.17                                                 | 0.15                                                         | Germany              |
| 0.36                      | 0.18                        | 0.06                                 | 547                                           | 1.67                                                      | 0.59                                                       | 0.29                                                 | 0.10                                                         | Ghana                |
| 7.58                      | -                           | -                                    | 6,194                                         | 2.54                                                      | 19.24                                                      | -                                                    | -                                                            | Gibraltar            |
| 1.93                      | 0.10                        | 0.07                                 | 4,763                                         | 2.48                                                      | 4.80                                                       | 0.24                                                 | 0.16                                                         | Greece               |
| 0.92                      | 0.20                        | 0.10                                 | 694                                           | 1.07                                                      | 0.98                                                       | 0.22                                                 | 0.11                                                         | Guatemala            |
| 0.37                      | 0.30                        | 0.14                                 | 74                                            | 0.70                                                      | 0.26                                                       | 0.21                                                 | 0.10                                                         | Haiti                |
| 0.58                      | 0.23                        | 0.11                                 | 759                                           | 1.64                                                      | 0.94                                                       | 0.38                                                 | 0.18                                                         | Honduras             |
| 1.57                      | 0.04                        | 0.03                                 | 6,375                                         | 2.70                                                      | 4.24                                                       | 0.10                                                 | 0.07                                                         | Hong Kong(China)     |
| 2.65                      | 0.16                        | 0.08                                 | 4,662                                         | 1.66                                                      | 4.39                                                       | 0.27                                                 | 0.13                                                         | Hungary              |
| 16.38                     | 0.27                        | 0.30                                 | 52,920                                        | 0.26                                                      | 4.30                                                       | 0.07                                                 | 0.08                                                         | Iceland              |
| 0.72                      | 0.34                        | 0.10                                 | 1,081                                         | 2.48                                                      | 1.78                                                       | 0.85                                                 | 0.25                                                         | India                |
| 0.95                      | 0.23                        | 0.08                                 | 1,272                                         | 2.50                                                      | 2.37                                                       | 0.58                                                 | 0.19                                                         | Indonesia            |
| 3.30                      | 0.60                        | 0.22                                 | 3,705                                         | 2.38                                                      | 7.86                                                       | 1.43                                                 | 0.52                                                         | Islamic Rep. of Iran |
| 1.40                      | 0.30                        | 0.14                                 | 1,360                                         | 2.74                                                      | 3.82                                                       | 0.82                                                 | 0.39                                                         | Iraq                 |
| 2.65                      | 0.03                        | 0.02                                 | 6,187                                         | 2.43                                                      | 6.44                                                       | 0.07                                                 | 0.06                                                         | Ireland              |
| 2.50                      | 0.06                        | 0.06                                 | 6,847                                         | 2.50                                                      | 6.24                                                       | 0.15                                                 | 0.15                                                         | Israel               |
| 2.41                      | 0.07                        | 0.06                                 | 5,216                                         | 2.18                                                      | 5.26                                                       | 0.16                                                 | 0.13                                                         | Italy                |
| 0.97                      | 0.19                        | 0.10                                 | 1,152                                         | 2.57                                                      | 2.50                                                       | 0.48                                                 | 0.27                                                         | Jamaica              |
| 3.14                      | 0.09                        | 0.07                                 | 7,814                                         | 2.48                                                      | 7.79                                                       | 0.21                                                 | 0.18                                                         | Japan                |
| 0.75                      | 0.19                        | 0.09                                 | 1,786                                         | 2.51                                                      | 1.89                                                       | 0.49                                                 | 0.21                                                         | Jordan               |
| 3.64                      | 0.32                        | 0.15                                 | 5,382                                         | 3.17                                                      | 11.51                                                      | 1.03                                                 | 0.46                                                         | Kazakhstan           |
| 0.54                      | 0.31                        | 0.12                                 | 190                                           | 0.61                                                      | 0.33                                                       | 0.19                                                 | 0.07                                                         | Kenya                |
| 5.42                      | 0.16                        | 0.12                                 | 11,503                                        | 1.96                                                      | 10.64                                                      | 0.32                                                 | 0.24                                                         | South Korea          |
| 1.50                      | 0.32                        | 0.12                                 | 3,789                                         | 3.19                                                      | 4.80                                                       | 1.03                                                 | 0.39                                                         | Kosovo               |
| 9.81                      | 0.35                        | 0.22                                 | 17,815                                        | 2.25                                                      | 22.05                                                      | 0.79                                                 | 0.50                                                         | Kuwait               |
| 0.66                      | 0.55                        | 0.15                                 | 2,021                                         | 2.03                                                      | 1.34                                                       | 1.11                                                 | 0.29                                                         | Kyrgyzstan           |
| 2.25                      | 0.13                        | 0.07                                 | 3,684                                         | 1.41                                                      | 3.17                                                       | 0.19                                                 | 0.10                                                         | Latvia               |
| 0.65                      | 0.11                        | 0.06                                 | 712                                           | 2.66                                                      | 1.72                                                       | 0.30                                                 | 0.15                                                         | Lebanon              |
| 2.69                      | 0.36                        | 0.13                                 | 3,793                                         | 2.44                                                      | 6.56                                                       | 0.88                                                 | 0.31                                                         | Libya                |
| 2.43                      | 0.13                        | 0.06                                 | 4,416                                         | 1.60                                                      | 3.90                                                       | 0.21                                                 | 0.10                                                         | Lithuania            |
| 4.85                      | 0.04                        | 0.04                                 | 11,597                                        | 2.12                                                      | 10.30                                                      | 0.09                                                 | 0.09                                                         | Luxembourg           |
| TPES/Pop.<br>(toe/Capita) | TPES/GDP<br>(toe/Thou. USD) | TPES/<br>GDP(PPP)<br>(toe/Thou. USD) | Elec.<br>Consumption/<br>Pop.<br>(kWh/Capita) | CO <sub>2</sub> /TPES<br>(Tons CO <sub>2</sub> eq./toe)   | CO <sub>2</sub> /Pop.<br>(Tons CO <sub>2</sub> eq./Capita) | CO <sub>2</sub> /GDP<br>(kg CO <sub>2</sub> eq./USD) | CO <sub>2</sub> /GDP(PPP)<br>(kg CO <sub>2</sub> eq./USD)    |                      |

1. Gross production+imports-exports-losses.

2. CO<sub>2</sub> emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines, and exclude emissions from non-energy.

3. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade.

4. CO<sub>2</sub> emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD Data explorer

## 3-1. 주요에너지·경제 통계(2022년, 계속)

|         | 인구<br>(백만명)             | GDP<br>(2015년 십억달러)    | GDP(PPP)<br>(2015년 십억달러)    | 에너지자생<br>(백만toe)                    | 에너지순수입<br>(백만toe)         | 일차에너지<br>(백만toe)   | 전력소비 <sup>1</sup><br>(TWh)                 | CO <sub>2</sub> 배출량 <sup>2</sup><br>(백만톤 CO <sub>2</sub> eq.)                |
|---------|-------------------------|------------------------|-----------------------------|-------------------------------------|---------------------------|--------------------|--------------------------------------------|------------------------------------------------------------------------------|
| 말레이시아   | 33.9                    | 386.9                  | 963.8                       | 96.6                                | -0.6                      | 99.5               | 173.0                                      | 241.1                                                                        |
| 몰타      | 0.5                     | 16.3                   | 24.6                        | 0.0                                 | 3.0                       | 0.8                | 2.7                                        | 1.8                                                                          |
| 모리셔스    | 1.3                     | 13.3                   | 27.7                        | 0.2                                 | 1.9                       | 1.4                | 2.9                                        | 4.0                                                                          |
| 멕시코     | 128.6                   | 1,285.1                | 2,446.1                     | 157.6                               | 29.7                      | 182.6              | 302.4                                      | 379.7                                                                        |
| 몰도바     | 2.6                     | 9.0                    | 30.5                        | 0.5                                 | 3.1                       | 3.6                | 5.7                                        | 7.5                                                                          |
| 몽골      | 3.4                     | 14.4                   | 39.7                        | 23.5                                | -14.7                     | 6.5                | 8.7                                        | 23.6                                                                         |
| 몬테네그로   | 0.6                     | 4.9                    | 12.2                        | 0.7                                 | 0.3                       | 1.0                | 2.7                                        | 2.6                                                                          |
| 모로코     | 37.5                    | 125.5                  | 306.7                       | 2.2                                 | 21.2                      | 22.5               | 36.5                                       | 67.2                                                                         |
| 모잠비크    | 33.0                    | 19.5                   | 42.6                        | 24.2                                | -12.5                     | 11.7               | 13.0                                       | 7.8                                                                          |
| 미얀마     | 54.2                    | 68.0                   | 234.8                       | 25.5                                | -4.1                      | 21.5               | 19.0                                       | 25.9                                                                         |
| 나미비아    | 2.6                     | 11.3                   | 24.3                        | 0.9                                 | 1.2                       | 2.0                | 3.6                                        | 3.2                                                                          |
| 네팔      | 30.5                    | 33.1                   | 109.9                       | 11.3                                | 4.2                       | 15.5               | 9.5                                        | 12.8                                                                         |
| 네덜란드    | 17.7                    | 894.8                  | 995.9                       | 23.9                                | 62.6                      | 63.3               | 112.7                                      | 121.5                                                                        |
| 뉴질랜드    | 5.1                     | 215.5                  | 208.6                       | 14.1                                | 5.5                       | 19.1               | 41.4                                       | 28.7                                                                         |
| 니카라과    | 6.9                     | 14.7                   | 38.0                        | 2.4                                 | 1.9                       | 4.1                | 4.6                                        | 4.9                                                                          |
| 니제르     | 26.2                    | 14.3                   | 33.9                        | 4.0                                 | 0.2                       | 4.1                | 1.6                                        | 2.9                                                                          |
| 나이지리아   | 218.5                   | 534.7                  | 1,067.3                     | 127.5                               | -49.3                     | 74.3               | 30.3                                       | 100.4                                                                        |
| 노르웨이    | 5.5                     | 433.5                  | 352.0                       | 216.0                               | -189.6                    | 25.3               | 127.6                                      | 35.6                                                                         |
| 오만      | 4.6                     | 86.3                   | 167.5                       | 89.8                                | -59.3                     | 27.8               | 38.6                                       | 74.9                                                                         |
| 파키스탄    | 235.8                   | 397.4                  | 1,281.1                     | 69.5                                | 45.6                      | 114.7              | 147.6                                      | 201.3                                                                        |
| 파나마     | 4.4                     | 70.3                   | 130.6                       | 1.1                                 | 8.0                       | 4.7                | 11.2                                       | 11.1                                                                         |
| 파라과이    | 6.8                     | 42.0                   | 89.2                        | 6.8                                 | 0.4                       | 7.1                | 15.0                                       | 7.4                                                                          |
| 페루      | 34.1                    | 226.0                  | 420.0                       | 24.6                                | 3.4                       | 27.7               | 53.2                                       | 56.8                                                                         |
| 필리핀     | 115.6                   | 407.7                  | 976.3                       | 31.7                                | 34.2                      | 62.8               | 100.8                                      | 137.5                                                                        |
| 폴란드     | 37.8                    | 629.9                  | 1,346.4                     | 59.0                                | 48.3                      | 103.2              | 169.3                                      | 285.0                                                                        |
| 포르투갈    | 10.3                    | 230.3                  | 355.0                       | 5.9                                 | 16.6                      | 20.3               | 53.1                                       | 35.7                                                                         |
| 카타르     | 2.7                     | 170.9                  | 252.1                       | 222.6                               | -175.6                    | 44.3               | 51.5                                       | 90.7                                                                         |
| 루마니아    | 19.0                    | 232.2                  | 559.4                       | 22.2                                | 10.2                      | 31.5               | 51.8                                       | 66.5                                                                         |
| 러시아     | 143.6                   | 1,482.4                | 3,853.0                     | 1,443.8                             | -607.0                    | 807.9              | 1,036.3                                    | 1,623.2                                                                      |
| 사우디아라비아 | 36.4                    | 782.0                  | 1,842.9                     | 683.8                               | -431.7                    | 242.3              | 380.8                                      | 532.9                                                                        |
| 세네갈     | 16.9                    | 25.3                   | 61.7                        | 2.0                                 | 3.9                       | 5.6                | 7.1                                        | 11.3                                                                         |
|         | Population<br>(Million) | GDP<br>(Bil. 2015 USD) | GDP(PPP)<br>(Bil. 2015 USD) | Energy<br>Productions<br>(Mil. toe) | Net Imports<br>(Mil. toe) | TPES<br>(Mil. toe) | Elec.<br>Consumption <sup>1</sup><br>(TWh) | CO <sub>2</sub><br>Emissions <sup>2</sup><br>(Mil. Tons CO <sub>2</sub> eq.) |

1. 총생산량+수입량-수출량-손실량

2. 연소에 의한 CO<sub>2</sub> 배출량이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출됨. 또한 비에너지로부터의 배출량은 제외함.

3. 세계 일차에너지공급은 전력 및 열 무역뿐만 아니라 국제 항공 및 해상 병커링을 포함.

4. 세계 CO<sub>2</sub> 배출량은 국제 항공 및 해상 병커링으로부터의 배출량을 포함.

자료: OECD Data explorer

### 3-1. Major Energy and Economic Statistics(2022, Continued)

| 일차에너지/<br>인구<br>(toe/인)   | 일차에너지/<br>GDP<br>(toe/천달러)  | 일차에너지/<br>GDP(PPP)<br>(toe/천달러)      | 전력소비/<br>인구<br>(kWh/인)                        | CO <sub>2</sub> /<br>일차에너지<br>(톤 CO <sub>2</sub> eq./toe) | CO <sub>2</sub> /인구<br>(톤 CO <sub>2</sub> eq./인)           | CO <sub>2</sub> /GDP<br>(kg CO <sub>2</sub> eq./달러)  | CO <sub>2</sub> /<br>GDP(PPP)<br>(kg CO <sub>2</sub> eq./달러) |                     |
|---------------------------|-----------------------------|--------------------------------------|-----------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|---------------------|
| 2.93                      | 0.26                        | 0.10                                 | 5,097                                         | 2.42                                                      | 7.11                                                       | 0.62                                                 | 0.25                                                         | Malaysia            |
| 1.47                      | 0.05                        | 0.03                                 | 5,255                                         | 2.32                                                      | 3.41                                                       | 0.11                                                 | 0.07                                                         | Malta               |
| 1.09                      | 0.10                        | 0.05                                 | 2,333                                         | 2.91                                                      | 3.18                                                       | 0.30                                                 | 0.15                                                         | Mauritius           |
| 1.42                      | 0.14                        | 0.07                                 | 2,352                                         | 2.08                                                      | 2.95                                                       | 0.30                                                 | 0.16                                                         | Mexico              |
| 1.39                      | 0.40                        | 0.12                                 | 2,201                                         | 2.09                                                      | 2.91                                                       | 0.84                                                 | 0.25                                                         | Republic of Moldova |
| 1.91                      | 0.45                        | 0.16                                 | 2,572                                         | 3.64                                                      | 6.96                                                       | 1.64                                                 | 0.60                                                         | Mongolia            |
| 1.69                      | 0.21                        | 0.09                                 | 4,400                                         | 2.54                                                      | 4.29                                                       | 0.54                                                 | 0.22                                                         | Montenegro          |
| 0.60                      | 0.18                        | 0.07                                 | 975                                           | 2.98                                                      | 1.79                                                       | 0.54                                                 | 0.22                                                         | Morocco             |
| 0.36                      | 0.60                        | 0.27                                 | 394                                           | 0.67                                                      | 0.24                                                       | 0.40                                                 | 0.18                                                         | Mozambique          |
| 0.40                      | 0.32                        | 0.09                                 | 351                                           | 1.21                                                      | 0.48                                                       | 0.38                                                 | 0.11                                                         | Myanmar             |
| 0.78                      | 0.18                        | 0.08                                 | 1,386                                         | 1.61                                                      | 1.25                                                       | 0.28                                                 | 0.13                                                         | Namibia             |
| 0.51                      | 0.47                        | 0.14                                 | 312                                           | 0.83                                                      | 0.42                                                       | 0.39                                                 | 0.12                                                         | Nepal               |
| 3.58                      | 0.07                        | 0.06                                 | 6,365                                         | 1.92                                                      | 6.86                                                       | 0.14                                                 | 0.12                                                         | Netherlands         |
| 3.71                      | 0.09                        | 0.09                                 | 8,060                                         | 1.50                                                      | 5.58                                                       | 0.13                                                 | 0.14                                                         | New Zealand         |
| 0.59                      | 0.28                        | 0.11                                 | 661                                           | 1.19                                                      | 0.70                                                       | 0.33                                                 | 0.13                                                         | Nicaragua           |
| 0.16                      | 0.29                        | 0.12                                 | 60                                            | 0.71                                                      | 0.11                                                       | 0.20                                                 | 0.09                                                         | Niger               |
| 0.34                      | 0.14                        | 0.07                                 | 138                                           | 1.35                                                      | 0.46                                                       | 0.19                                                 | 0.09                                                         | Nigeria             |
| 4.63                      | 0.06                        | 0.07                                 | 23,374                                        | 1.41                                                      | 6.52                                                       | 0.08                                                 | 0.10                                                         | Norway              |
| 6.06                      | 0.32                        | 0.17                                 | 8,432                                         | 2.70                                                      | 16.37                                                      | 0.87                                                 | 0.45                                                         | Oman                |
| 0.49                      | 0.29                        | 0.09                                 | 626                                           | 1.75                                                      | 0.85                                                       | 0.51                                                 | 0.16                                                         | Pakistan            |
| 1.06                      | 0.07                        | 0.04                                 | 2,542                                         | 2.37                                                      | 2.52                                                       | 0.16                                                 | 0.08                                                         | Panama              |
| 1.04                      | 0.17                        | 0.08                                 | 2,206                                         | 1.04                                                      | 1.09                                                       | 0.18                                                 | 0.08                                                         | Paraguay            |
| 0.81                      | 0.12                        | 0.07                                 | 1,562                                         | 2.05                                                      | 1.67                                                       | 0.25                                                 | 0.14                                                         | Peru                |
| 0.54                      | 0.15                        | 0.06                                 | 872                                           | 2.19                                                      | 1.19                                                       | 0.34                                                 | 0.14                                                         | Philippines         |
| 2.73                      | 0.16                        | 0.08                                 | 4,475                                         | 2.76                                                      | 7.53                                                       | 0.45                                                 | 0.21                                                         | Poland              |
| 1.97                      | 0.09                        | 0.06                                 | 5,152                                         | 1.76                                                      | 3.47                                                       | 0.16                                                 | 0.10                                                         | Portugal            |
| 16.45                     | 0.26                        | 0.18                                 | 19,110                                        | 2.05                                                      | 33.64                                                      | 0.53                                                 | 0.36                                                         | Qatar               |
| 1.66                      | 0.14                        | 0.06                                 | 2,731                                         | 2.11                                                      | 3.51                                                       | 0.29                                                 | 0.12                                                         | Romania             |
| 5.63                      | 0.54                        | 0.21                                 | 7,219                                         | 2.01                                                      | 11.31                                                      | 1.09                                                 | 0.42                                                         | Russia              |
| 6.65                      | 0.31                        | 0.13                                 | 10,459                                        | 2.20                                                      | 14.64                                                      | 0.68                                                 | 0.29                                                         | Saudi Arabia        |
| 0.33                      | 0.22                        | 0.09                                 | 407                                           | 2.03                                                      | 0.67                                                       | 0.45                                                 | 0.18                                                         | Senegal             |
| TPES/Pop.<br>(toe/Capita) | TPES/GDP<br>(toe/Thou. USD) | TPES/<br>GDP(PPP)<br>(toe/Thou. USD) | Elec.<br>Consumption/<br>Pop.<br>(kWh/Capita) | CO <sub>2</sub> /TPES<br>(Tons CO <sub>2</sub> eq./toe)   | CO <sub>2</sub> /Pop.<br>(Tons CO <sub>2</sub> eq./Capita) | CO <sub>2</sub> /GDP<br>(kg CO <sub>2</sub> eq./USD) | CO <sub>2</sub> /GDP(PPP)<br>(kg CO <sub>2</sub> eq./USD)    |                     |

1. Gross production+imports-exports-losses.

2. CO<sub>2</sub> emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines, and exclude emissions from non-energy.

3. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade.

4. CO<sub>2</sub> emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD Data explorer

## 3-1. 주요에너지·경제 통계(2022년, 계속)

|          | 인구<br>(백만명)             | GDP<br>(2015년 십억달러)    | GDP(PPP)<br>(2015년 십억달러)    | 에너지자생<br>(백만toe)                    | 에너지순수입<br>(백만toe)         | 일차에너지<br>(백만toe)   | 전력소비¹<br>(TWh)                 | CO₂ 배출량²<br>(백만톤 CO₂eq.)                |
|----------|-------------------------|------------------------|-----------------------------|-------------------------------------|---------------------------|--------------------|--------------------------------|-----------------------------------------|
| 세르비아     | 6.8                     | 49.9                   | 133.4                       | 9.6                                 | 7.4                       | 16.3               | 34.1                           | 45.0                                    |
| 싱가포르     | 5.6                     | 383.0                  | 598.7                       | 0.7                                 | 90.7                      | 37.4               | 57.2                           | 46.6                                    |
| 슬로바키아    | 5.5                     | 102.6                  | 188.1                       | 6.9                                 | 11.6                      | 16.8               | 26.9                           | 28.1                                    |
| 슬로베니아    | 2.1                     | 53.5                   | 81.1                        | 3.1                                 | 3.4                       | 6.4                | 14.2                           | 12.0                                    |
| 남아프리카    | 59.9                    | 360.7                  | 789.5                       | 138.3                               | -13.5                     | 123.3              | 209.5                          | 394.1                                   |
| 남수단      | 10.9                    | 11.5                   | 12.6                        | 7.4                                 | -6.5                      | 0.8                | 0.5                            | 1.7                                     |
| 스페인      | 47.8                    | 1,323.7                | 1,795.1                     | 34.7                                | 95.3                      | 115.0              | 247.5                          | 217.1                                   |
| 스리랑카     | 22.2                    | 88.4                   | 266.0                       | 4.8                                 | 6.3                       | 10.5               | 15.2                           | 18.4                                    |
| 수단       | 46.9                    | 61.3                   | 161.9                       | 16.7                                | 3.8                       | 20.3               | 13.8                           | 18.0                                    |
| 수리남      | 0.6                     | 4.4                    | 8.3                         | 0.9                                 | 0.2                       | 1.1                | 1.8                            | 2.8                                     |
| 스웨덴      | 10.5                    | 586.2                  | 558.5                       | 35.7                                | 13.0                      | 45.4               | 130.2                          | 32.5                                    |
| 스위스      | 8.8                     | 790.6                  | 615.8                       | 11.9                                | 11.7                      | 22.7               | 64.2                           | 31.8                                    |
| 시리아      | 22.1                    | 3.8                    | -                           | 4.2                                 | 6.3                       | 10.2               | 15.5                           | 27.5                                    |
| 대만       | 23.9                    | 675.9                  | 1,393.4                     | 10.4                                | 110.4                     | 117.0              | 278.5                          | 269.5                                   |
| 타지키스탄    | 10.0                    | 12.8                   | 41.3                        | 2.8                                 | 1.1                       | 3.8                | 15.0                           | 7.6                                     |
| 탄자니아     | 65.5                    | 71.0                   | 175.7                       | 23.0                                | 3.4                       | 26.2               | 8.0                            | 17.5                                    |
| 태국       | 71.7                    | 450.1                  | 1,219.4                     | 61.2                                | 76.5                      | 133.2              | 205.7                          | 250.0                                   |
| 토고       | 8.8                     | 8.0                    | 19.5                        | 3.1                                 | 0.8                       | 3.9                | 1.7                            | 1.9                                     |
| 트리니다드토바고 | 1.5                     | 21.7                   | 32.6                        | 26.7                                | -11.4                     | 15.1               | 9.0                            | 13.7                                    |
| 튀니지      | 12.4                    | 48.4                   | 128.0                       | 5.2                                 | 6.2                       | 11.6               | 19.3                           | 26.4                                    |
| 터키       | 85.0                    | 1,194.1                | 2,795.5                     | 51.1                                | 113.8                     | 156.5              | 302.0                          | 390.0                                   |
| 투르크메니스탄  | 6.4                     | 46.0                   | 97.9                        | 85.4                                | -44.7                     | 40.7               | 20.5                           | 95.0                                    |
| 우크라이나    | 38.0                    | 71.9                   | 344.3                       | 47.1                                | 15.4                      | 61.3               | 100.2                          | 101.3                                   |
| 아랍에미리트   | 9.4                     | 431.4                  | 724.2                       | 253.0                               | -144.0                    | 84.0               | 148.0                          | 173.6                                   |
| 영국       | 67.8                    | 3,210.2                | 3,034.2                     | 103.3                               | 60.4                      | 153.0              | 293.1                          | 309.4                                   |
| 미국       | 333.6                   | 21,236.5               | 21,236.5                    | 2,318.5                             | -141.3                    | 2,173.0            | 4,331.6                        | 4,607.6                                 |
| 우루과이     | 3.4                     | 62.3                   | 80.6                        | 3.2                                 | 2.5                       | 5.5                | 12.2                           | 7.2                                     |
| 우즈베키스탄   | 35.6                    | 123.1                  | 300.4                       | 48.3                                | 0.7                       | 48.3               | 73.2                           | 113.4                                   |
| 베네수엘라    | 28.3                    | 38.9                   | 161.3                       | 69.2                                | -30.8                     | 41.7               | 56.1                           | 63.6                                    |
| 베트남      | 98.2                    | 355.5                  | 1,051.4                     | 66.0                                | 34.7                      | 102.0              | 261.6                          | 286.6                                   |
| 예멘       | 33.7                    | 34.5                   | 55.7                        | 3.0                                 | -0.3                      | 2.6                | 2.1                            | 8.2                                     |
| 잠비아      | 20.0                    | 26.2                   | 67.1                        | 14.7                                | 1.5                       | 16.1               | 14.2                           | 9.0                                     |
| 짐바브웨     | 16.3                    | 22.2                   | 41.1                        | 5.7                                 | 1.1                       | 6.7                | 8.7                            | 10.1                                    |
|          | Population<br>(Million) | GDP<br>(Bil. 2015 USD) | GDP(PPP)<br>(Bil. 2015 USD) | Energy<br>Productions<br>(Mil. toe) | Net Imports<br>(Mil. toe) | TPES<br>(Mil. toe) | Elec.<br>Consumption¹<br>(TWh) | CO₂<br>Emissions²<br>(Mil. Tons CO₂eq.) |

1. 총생산량+수입량-수출량-손실량

2. 연소에 의한 CO₂ 배출량이며, IEA 에너지밸런스 및 개정된 2006년 IPCC 지침에 의해 산출됨. 또한 비에너지로부터의 배출량은 제외함.

3. 세계 일차에너지공급은 전력 및 열 무역뿐만 아니라 국제 항공 및 해상 방커링을 포함.

4. 세계 CO₂ 배출량은 국제 항공 및 해상 방커링으로부터의 배출량을 포함.

자료: OECD Data explorer



### 3-1. Major Energy and Economic Statistics(2022, Continued)

| 일차에너지/<br>인구<br>(toe/인)   | 일차에너지/<br>GDP<br>(toe/천달러)  | 일차에너지/<br>GDP(PPP)<br>(toe/천달러)      | 전력소비/<br>인구<br>(kWh/인)                        | CO <sub>2</sub> /<br>일차에너지<br>(톤 CO <sub>2</sub> eq./toe) | CO <sub>2</sub> /인구<br>(톤 CO <sub>2</sub> eq./인)           | CO <sub>2</sub> /GDP<br>(kg CO <sub>2</sub> eq./달러)  | CO <sub>2</sub> /<br>GDP(PPP)<br>(kg CO <sub>2</sub> eq./달러) |                         |
|---------------------------|-----------------------------|--------------------------------------|-----------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|-------------------------|
| 2.41                      | 0.33                        | 0.12                                 | 5,041                                         | 2.77                                                      | 6.66                                                       | 0.90                                                 | 0.34                                                         | Serbia                  |
| 6.63                      | 0.10                        | 0.06                                 | 10,143                                        | 1.25                                                      | 8.26                                                       | 0.12                                                 | 0.08                                                         | Singapore               |
| 3.05                      | 0.16                        | 0.09                                 | 4,906                                         | 1.68                                                      | 5.12                                                       | 0.27                                                 | 0.15                                                         | Slovak Republic         |
| 3.04                      | 0.12                        | 0.08                                 | 6,741                                         | 1.86                                                      | 5.66                                                       | 0.22                                                 | 0.15                                                         | Slovenia                |
| 2.06                      | 0.34                        | 0.16                                 | 3,497                                         | 3.20                                                      | 6.58                                                       | 1.09                                                 | 0.50                                                         | South Africa            |
| 0.07                      | 0.07                        | 0.06                                 | 47                                            | 2.20                                                      | 0.15                                                       | 0.14                                                 | 0.13                                                         | South Sudan             |
| 2.41                      | 0.09                        | 0.06                                 | 5,177                                         | 1.89                                                      | 4.54                                                       | 0.16                                                 | 0.12                                                         | Spain                   |
| 0.47                      | 0.12                        | 0.04                                 | 684                                           | 1.75                                                      | 0.83                                                       | 0.21                                                 | 0.07                                                         | Sri Lanka               |
| 0.43                      | 0.33                        | 0.13                                 | 294                                           | 0.89                                                      | 0.38                                                       | 0.29                                                 | 0.11                                                         | Sudan                   |
| 1.75                      | 0.24                        | 0.13                                 | 2,981                                         | 2.62                                                      | 4.58                                                       | 0.64                                                 | 0.34                                                         | Suriname                |
| 4.33                      | 0.08                        | 0.08                                 | 12,418                                        | 0.72                                                      | 3.09                                                       | 0.06                                                 | 0.06                                                         | Sweden                  |
| 2.59                      | 0.03                        | 0.04                                 | 7,310                                         | 1.40                                                      | 3.63                                                       | 0.04                                                 | 0.05                                                         | Switzerland             |
| 0.46                      | 2.68                        | -                                    | 700                                           | 2.70                                                      | 1.24                                                       | 7.22                                                 | -                                                            | Syrian Arab Republic    |
| 4.90                      | 0.17                        | 0.08                                 | 11,660                                        | 2.30                                                      | 11.28                                                      | 0.40                                                 | 0.19                                                         | Chinese Taipei          |
| 0.38                      | 0.30                        | 0.09                                 | 1,510                                         | 1.99                                                      | 0.76                                                       | 0.59                                                 | 0.18                                                         | Tajikistan              |
| 0.40                      | 0.37                        | 0.15                                 | 122                                           | 0.67                                                      | 0.27                                                       | 0.25                                                 | 0.10                                                         | United Rep. of Tanzania |
| 1.86                      | 0.30                        | 0.11                                 | 2,869                                         | 1.88                                                      | 3.49                                                       | 0.56                                                 | 0.21                                                         | Thailand                |
| 0.44                      | 0.49                        | 0.20                                 | 197                                           | 0.50                                                      | 0.22                                                       | 0.24                                                 | 0.10                                                         | Togo                    |
| 9.85                      | 0.70                        | 0.46                                 | 5,880                                         | 0.91                                                      | 8.96                                                       | 0.63                                                 | 0.42                                                         | Trinidad and Tobago     |
| 0.94                      | 0.24                        | 0.09                                 | 1,565                                         | 2.28                                                      | 2.14                                                       | 0.55                                                 | 0.21                                                         | Tunisia                 |
| 1.84                      | 0.13                        | 0.06                                 | 3,554                                         | 2.49                                                      | 4.59                                                       | 0.33                                                 | 0.14                                                         | Turkey                  |
| 6.32                      | 0.88                        | 0.42                                 | 3,181                                         | 2.34                                                      | 14.77                                                      | 2.06                                                 | 0.97                                                         | Turkmenistan            |
| 1.61                      | 0.85                        | 0.18                                 | 2,636                                         | 1.65                                                      | 2.67                                                       | 1.41                                                 | 0.29                                                         | Ukraine                 |
| 8.90                      | 0.19                        | 0.12                                 | 15,674                                        | 2.07                                                      | 18.39                                                      | 0.40                                                 | 0.24                                                         | U.A.E                   |
| 2.26                      | 0.05                        | 0.05                                 | 4,323                                         | 2.02                                                      | 4.56                                                       | 0.10                                                 | 0.10                                                         | United Kingdom          |
| 6.51                      | 0.10                        | 0.10                                 | 12,986                                        | 2.12                                                      | 13.81                                                      | 0.22                                                 | 0.22                                                         | United States           |
| 1.61                      | 0.09                        | 0.07                                 | 3,556                                         | 1.30                                                      | 2.10                                                       | 0.12                                                 | 0.09                                                         | Uruguay                 |
| 1.35                      | 0.39                        | 0.16                                 | 2,052                                         | 2.35                                                      | 3.18                                                       | 0.92                                                 | 0.38                                                         | Uzbekistan              |
| 1.47                      | 1.07                        | 0.26                                 | 1,983                                         | 1.53                                                      | 2.25                                                       | 1.63                                                 | 0.39                                                         | Venezuela               |
| 1.04                      | 0.29                        | 0.10                                 | 2,664                                         | 2.81                                                      | 2.92                                                       | 0.81                                                 | 0.27                                                         | Viet Nam                |
| 0.08                      | 0.08                        | 0.05                                 | 61                                            | 3.12                                                      | 0.24                                                       | 0.24                                                 | 0.15                                                         | Yemen                   |
| 0.81                      | 0.62                        | 0.24                                 | 709                                           | 0.56                                                      | 0.45                                                       | 0.35                                                 | 0.13                                                         | Zambia                  |
| 0.41                      | 0.30                        | 0.16                                 | 530                                           | 1.51                                                      | 0.62                                                       | 0.46                                                 | 0.25                                                         | Zimbabwe                |
| TPES/Pop.<br>(toe/Capita) | TPES/GDP<br>(toe/Thou. USD) | TPES/<br>GDP(PPP)<br>(toe/Thou. USD) | Elec.<br>Consumption/<br>Pop.<br>(kWh/Capita) | CO <sub>2</sub> /TPES<br>(Tons CO <sub>2</sub> eq./toe)   | CO <sub>2</sub> /Pop.<br>(Tons CO <sub>2</sub> eq./Capita) | CO <sub>2</sub> /GDP<br>(kg CO <sub>2</sub> eq./USD) | CO <sub>2</sub> /GDP(PPP)<br>(kg CO <sub>2</sub> eq./USD)    |                         |

1. Gross production+imports-exports-losses.

2. CO<sub>2</sub> emissions from fuel combustion only. Emissions are calculated using the IEA's energy balances and the Revised 2006 IPCC Guidelines, and exclude emissions from non-energy.

3. TPES for world includes international aviation and international marine bunkers as well as electricity and heat trade.

4. CO<sub>2</sub> emissions for world include emissions from international aviation and international marine bunkers.

Source: OECD Data explorer

## 3-2. OECD 국가별 에너지 수입·수출(2023년)

단위: 백만toe

|           | 수입          |             |             |             |              |
|-----------|-------------|-------------|-------------|-------------|--------------|
|           | 석탄          | 석유          | 천연가스        | 전력          | 합계           |
| OECD계     | 277.8       | 623.9       | 639.8       | 45.0        | 2,883.3      |
| 호주        | 0.4         | 41.3        | 1.0         | -           | 50.8         |
| 오스트리아     | 2.5         | 5.5         | 6.0         | 1.9         | 24.3         |
| 벨기에       | 2.5         | 24.2        | 19.1        | 1.6         | 81.0         |
| 캐나다       | 4.6         | 11.2        | 21.3        | 1.9         | 74.2         |
| 칠레        | 4.0         | 8.6         | 4.3         | -           | 26.2         |
| 콜롬비아      | 0.0         | 7.8         | 0.3         | 0.0         | 8.0          |
| 코스타리카     | 0.0         | 2.8         | -           | 0.0         | 2.8          |
| 체코        | 2.8         | 4.1         | 5.8         | 1.2         | 21.7         |
| 덴마크       | 0.8         | 5.1         | 7.4         | 1.7         | 21.9         |
| 에스토니아     | 0.0         | 1.4         | 0.3         | 0.7         | 3.0          |
| 핀란드       | 1.7         | 4.4         | 0.9         | 0.8         | 19.4         |
| 프랑스       | 4.5         | 38.0        | 41.2        | 2.2         | 135.0        |
| 독일        | 22.0        | 36.6        | 59.6        | 6.0         | 205.0        |
| 그리스       | 0.0         | 4.1         | 4.1         | 0.7         | 36.2         |
| 헝가리       | 0.3         | 3.3         | 7.0         | 1.7         | 18.9         |
| 아이슬랜드     | 0.1         | 1.0         | -           | -           | 1.1          |
| 아일랜드      | 0.4         | 5.5         | 3.2         | 0.3         | 12.4         |
| 이스라엘      | 2.9         | 2.1         | -           | -           | 17.9         |
| 이탈리아      | 4.9         | 12.8        | 50.6        | 4.7         | 138.7        |
| 일본        | 98.9        | 41.2        | 76.3        | -           | 343.4        |
| <b>한국</b> | <b>65.2</b> | <b>43.5</b> | <b>52.5</b> | <b>-</b>    | <b>299.6</b> |
| 라트비아      | 0.0         | 2.3         | 0.7         | 0.4         | 3.5          |
| 리투아니아     | 0.1         | 0.9         | 2.8         | 0.9         | 14.1         |
| 룩셈부르크     | 0.0         | 2.2         | 0.5         | 0.5         | 3.4          |
| 멕시코       | 5.5         | 45.3        | 39.6        | 0.2         | 91.7         |
| 네덜란드      | 4.2         | 77.8        | 28.7        | 1.7         | 178.0        |
| 뉴질랜드      | 0.1         | 7.5         | -           | -           | 7.7          |
| 노르웨이      | 0.7         | 7.8         | 0.1         | 1.1         | 12.1         |
| 폴란드       | 9.5         | 10.2        | 13.4        | 1.3         | 62.8         |
| 포르투갈      | 0.0         | 3.7         | 3.7         | 1.2         | 19.8         |
| 슬로바키아     | 2.2         | 2.7         | 3.8         | 0.9         | 15.3         |
| 슬로베니아     | 0.2         | 4.6         | 0.7         | 0.8         | 6.3          |
| 스페인       | 4.2         | 16.6        | 30.7        | 1.0         | 119.4        |
| 스웨덴       | 1.4         | 8.1         | 0.8         | 0.6         | 31.1         |
| 스위스       | 0.1         | 6.8         | 2.3         | 2.4         | 14.8         |
| 터키        | 25.6        | 25.1        | 41.6        | 0.5         | 125.3        |
| 영국        | 3.4         | 31.1        | 38.2        | 2.9         | 128.2        |
| 미국        | 2.1         | 65.4        | 70.2        | 3.3         | 508.2        |
|           | Coal        | Oil         | Natural Gas | Electricity | Total        |
|           | Import      |             |             |             |              |

자료: OECD Data explorer

### 3-2. Energy Imports and Exports in OECD Countries(2023)

Unit: Million toe

| 수출     |       |             |             |        |                     |
|--------|-------|-------------|-------------|--------|---------------------|
| 석탄     | 석유    | 천연가스        | 전력          | 합계     |                     |
| 339.8  | 637.3 | 524.1       | 45.7        | 2274.0 | OECD Total          |
| 218.5  | 3.5   | 97.6        | -           | 332.9  | Australia           |
| 0.     | 2.3   | -           | 1.9         | 4.9    | Austria             |
| 0.1    | 26.7  | 6.8         | 1.6         | 38.7   | Belgium             |
| 23.4   | 21.2  | 69.6        | 4.3         | 333.5  | Canada              |
| -      | 1.6   | -           | -           | 1.7    | Chile               |
| 31.8   | 8.6   | -           | 0.0         | 61.3   | Colombia            |
| -      | -     | -           | 0.1         | 0.1    | Costa Rica          |
| 1.2    | 2.1   | -           | 1.9         | 5.8    | Czech Republic      |
| -      | 6.3   | 7.2         | 1.4         | 15.3   | Denmark             |
| -      | 0.1   | 0.6         | 0.4         | 2.9    | Estonia             |
| 0.1    | 8.0   | -           | 0.7         | 9.0    | Finland             |
| 0.     | 14.6  | 12.1        | 6.5         | 34.0   | France              |
| 1.4    | 24.3  | -           | 5.2         | 33.8   | Germany             |
| -      | 18.0  | 0.2         | 0.3         | 18.6   | Greece              |
| 0.1    | 2.4   | -           | 0.8         | 4.0    | Hungary             |
| -      | -     | -           | -           | 0.0    | Iceland             |
| -      | 1.2   | -           | 0.0         | 1.2    | Ireland             |
| -      | 4.5   | 9.4         | 0.6         | 14.5   | Israel              |
| 0.2    | 23.1  | 2.1         | 0.3         | 29.6   | Italy               |
| 0.3    | 12.8  | -           | -           | 13.1   | Japan               |
| -      | 65.0  | -           | -           | 65.4   | South Korea         |
| -      | 0.6   | -           | 0.3         | 2.0    | Latvia              |
| -      | 7.0   | 1.6         | 0.3         | 9.3    | Lithuania           |
| -      | -     | -           | 0.1         | 0.1    | Luxembourg          |
| 0.     | 10.3  | 0.          | 0.3         | 66.5   | Mexico              |
| 0.3    | 105.3 | 0.          | 2.2         | 124.8  | Netherlands         |
| 0.8    | -     | -           | -           | 1.7    | New Zealand         |
| 0.     | 13.5  | 99.4        | 2.7         | 202.2  | Norway              |
| 7.3    | 5.5   | 0.6         | 1.0         | 15.1   | Poland              |
| 0.     | 4.0   | -           | 0.3         | 4.6    | Portugal            |
| 0.     | 4.0   | -           | 1.2         | 5.3    | Slovak Republic     |
| -      | 2.4   | -           | 0.9         | 3.3    | Slovenia            |
| 2.2    | 18.6  | 5.7         | 2.2         | 33.9   | Spain               |
| 0.     | 14.1  | 0.          | 3.1         | 18.4   | Sweden              |
| 0.     | 0.4   | -           | 2.9         | 3.3    | Switzerland         |
| 0.5    | 9.3   | 0.7         | 0.2         | 12.0   | Republic of Turkiye |
| 0.5    | 19.1  | 13.6        | 0.8         | 63.1   | United Kingdom      |
| 50.8   | 227.3 | 182.5       | 1.7         | 688.0  | United States       |
| Coal   | Oil   | Natural Gas | Electricity | Total  |                     |
| Export |       |             |             |        |                     |

Source: OECD Data explorer



## 3-3. 주요국 일차에너지 공급(2023년)

## Primary Energy Supply in Selected untries(2023)

단위: 엑사줄

Unit: EJ(Exajoules)

|          | 석유    | 천연가스        | 석탄    | 원자력     | 수력    | 신재생        | 합계    |                      |
|----------|-------|-------------|-------|---------|-------|------------|-------|----------------------|
| 전세계      | 196.4 | 144.4       | 164.0 | 24.6    | 39.7  | 50.6       | 619.6 | Total World          |
| Non-OECD | 109.3 | 81.1        | 138.9 | 8.1     | 26.7  | 25.6       | 389.7 | Non-OECD             |
| OECD     | 87.1  | 63.3        | 25.1  | 16.4    | 13.0  | 25.0       | 229.9 | OECD                 |
| 중국       | 32.7  | 14.6        | 91.9  | 3.9     | 11.5  | 16.1       | 170.7 | China                |
| 미국       | 35.9  | 31.9        | 8.2   | 7.3     | 2.2   | 8.8        | 94.3  | US                   |
| 유럽연합     | 28.3  | 16.7        | 8.4   | 6.6     | 6.0   | 11.9       | 77.8  | European Union       |
| 인도       | 10.6  | 2.3         | 22.0  | 0.4     | 1.4   | 2.4        | 39.0  | India                |
| 러시아연합    | 7.2   | 16.3        | 3.8   | 2.0     | 1.9   | 0.1        | 31.3  | Russian Federation   |
| 일본       | 6.7   | 3.3         | 4.5   | 0.7     | 0.7   | 1.5        | 17.4  | Japan                |
| 캐나다      | 4.4   | 4.3         | 0.4   | 0.8     | 3.4   | 0.7        | 13.9  | Canada               |
| 독일       | 4.0   | 2.7         | 1.8   | 0.1     | 0.2   | 2.6        | 11.4  | Germany              |
| 한국       | 5.4   | 2.2         | 2.7   | 1.6     | 0.0   | 0.6        | 12.4  | South Korea          |
| 브라질      | 5.1   | 1.1         | 0.6   | 0.1     | 4.0   | 3.0        | 13.9  | Brazil               |
| 이란       | 3.5   | 8.8         | 0.1   | 0.1     | 0.2   | 0.0        | 12.7  | Iran                 |
| 사우디아라비아  | 7.4   | 4.1         | ^     | -       | -     | 0.1        | 11.6  | Saudi Arabia         |
| 프랑스      | 2.8   | 1.2         | 0.2   | 3.0     | 0.5   | 0.9        | 8.7   | France               |
| 인도네시아    | 3.1   | 1.6         | 4.3   | -       | 0.2   | 0.8        | 10.1  | Indonesia            |
| 영국       | 2.7   | 2.3         | 0.2   | 0.4     | 0.0   | 1.4        | 7.0   | United Kingdom       |
| 튀르키예     | 2.3   | 1.7         | 1.6   | -       | 0.6   | 0.7        | 7.0   | Republic of Türkiye  |
| 멕시코      | 3.8   | 3.5         | 0.3   | 0.1     | 0.2   | 0.5        | 8.5   | Mexico               |
| 이탈리아     | 2.5   | 2.1         | 0.2   | -       | 0.4   | 0.8        | 5.9   | Italy                |
| 호주       | 2.2   | 1.4         | 1.5   | -       | 0.1   | 0.8        | 6.0   | Australia            |
| 스페인      | 2.6   | 1.1         | 0.1   | 0.5     | 0.2   | 1.2        | 5.7   | Spain                |
| 태국       | 2.3   | 1.7         | 0.6   | -       | 0.1   | 0.3        | 5.0   | Thailand             |
| 남아프리카공화국 | 1.1   | 0.2         | 3.3   | 0.1     | 0.0   | 0.2        | 4.9   | South Africa         |
| 대만       | 1.6   | 1.0         | 1.5   | 0.2     | 0.0   | 0.2        | 4.5   | Taiwan               |
| 아랍에미리트   | 2.2   | 2.4         | 0.1   | 0.3     | -     | 0.1        | 5.1   | United Arab Emirates |
| 폴란드      | 1.4   | 0.7         | 1.5   | -       | 0.0   | 0.5        | 4.1   | Poland               |
| 베트남      | 1.2   | 0.3         | 2.3   | -       | 0.8   | 0.4        | 4.9   | Vietnam              |
| 말레이시아    | 1.8   | 1.7         | 1.0   | -       | 0.3   | 0.1        | 4.8   | Malaysia             |
| 파키스탄     | 0.8   | 1.4         | 0.6   | 0.2     | 0.3   | 0.1        | 3.4   | Pakistan             |
| 이집트      | 1.5   | 2.2         | 0.1   | -       | 0.1   | 0.1        | 3.9   | Egypt                |
| 네덜란드     | 1.7   | 0.9         | 0.2   | 0.0     | ^     | 0.6        | 3.4   | Netherlands          |
| 싱가포르     | 3.0   | 0.4         | 0.0   | -       | -     | 0.0        | 3.5   | Singapore            |
| 아르헨티나    | 0.5   | 0.2         | 0.1   | -       | 0.4   | 0.2        | 1.4   | Argentina            |
| 우크라이나    | 0.4   | 0.7         | 0.5   | 0.5     | 0.1   | 0.1        | 2.2   | Ukraine              |
| 카자흐스탄    | 0.7   | 0.8         | 1.4   | -       | 0.1   | 0.1        | 3.0   | Kazakhstan           |
|          | Oil   | Natural Gas | Coal  | Nuclear | Hydro | Renewables | Total |                      |

주: 일차에너지는 발전에 사용된 신재생에너지를 포함한

상업적 거래 연료로 구성됨.

자료: EI 2024 Energy Institute Statistical Review of World Energy

Note: Primary energy comprises commercially traded fuels

including modern renewables used to generate electricity.

Source: EI 2024 Energy Institute Statistical Review of World Energy

### 3-4. 주요국 전력 소비

### Electricity Consumption in Selected Countries

단위: TWh

Unit: TWh

|           | 1990       | 1995       | 2000       | 2005       | 2010       | 2019       | 2020       | 2021       | 2022       |                                                     |
|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------------------------------------------------|
| 전세계       | 10,895     | 12,187     | 14,150     | 16,767     | 19,865     | 25,067     | 24,931     | 26,467     | 27,231     | World                                               |
| 중국        | 603        | 958        | 1,293      | 2,367      | 3,983      | 7,202      | 7,471      | 8,307      | 8,631      | China<br>(P.R. of China<br>and Hong Kong,<br>China) |
| 미국        | 2,924      | 3,371      | 3,857      | 4,050      | 4,143      | 4,187      | 4,109      | 4,170      | 4,332      | United States                                       |
| 인도        | 234        | 340        | 407        | 530        | 783        | 1,375      | 1,264      | 1,345      | 1,532      | India                                               |
| 일본        | 830        | 945        | 1,021      | 1,061      | 1,124      | 995        | 971        | 1,001      | 976        | Japan                                               |
| 러시아       | 990        | 757        | 762        | 828        | 916        | 1,004      | 983        | 1,040      | 1,036      | Russian<br>Federation                               |
| 독일        | 527        | 517        | 546        | 589        | 594        | 547        | 529        | 543        | 527        | Germany                                             |
| 캐나다       | 448        | 484        | 517        | 575        | 552        | 572        | 561        | 564        | 568        | Canada                                              |
| <b>한국</b> | <b>102</b> | <b>175</b> | <b>278</b> | <b>374</b> | <b>481</b> | <b>562</b> | <b>560</b> | <b>592</b> | <b>594</b> | <b>Korea</b>                                        |
| 브라질       | 218        | 265        | 332        | 375        | 465        | 552        | 548        | 571        | 586        | Brazil                                              |
| 프랑스       | 348        | 394        | 440        | 484        | 503        | 475        | 451        | 471        | 454        | France                                              |
| 영국        | 307        | 324        | 360        | 379        | 359        | 319        | 302        | 307        | 293        | United Kingdom                                      |
| 사우디아라비아   | 65         | 92         | 117        | 158        | 219        | 357        | 358        | 372        | 381        | Saudi Arabia                                        |
| 이탈리아      | 235        | 261        | 302        | 332        | 326        | 314        | 295        | 313        | 308        | Italy                                               |
| 멕시코       | 99         | 130        | 178        | 212        | 230        | 306        | 285        | 337        | 302        | Mexico                                              |
| 스페인       | 137        | 156        | 210        | 267        | 266        | 255        | 241        | 248        | 248        | Spain                                               |
| 대만        | 84         | 124        | 177        | 219        | 237        | 265        | 270        | 282        | 279        | Chinese Taipei                                      |
| 호주        | 146        | 163        | 195        | 213        | 238        | 253        | 254        | 253        | 258        | Australia                                           |
| 이란        | 53         | 73         | 102        | 145        | 196        | 272        | 294        | 301        | 328        | Islamic Republic<br>of Iran                         |
| 튀르키예      | 50         | 72         | 105        | 137        | 180        | 272        | 277        | 302        | 302        | Republic of<br>Turkiye                              |
| 남아프리카공화국  | 156        | 172        | 206        | 222        | 233        | 225        | 211        | 216        | 209        | South Africa                                        |
| 인도네시아     | 29         | 52         | 83         | 113        | 154        | 271        | 268        | 285        | 351        | Indonesia                                           |
| 태국        | 40         | 74         | 91         | 125        | 155        | 200        | 193        | 194        | 206        | Thailand                                            |
| 이집트       | 38         | 46         | 67         | 95         | 144        | 162        | 154        | 172        | 161        | Egypt                                               |
| 폴란드       | 125        | 118        | 125        | 131        | 144        | 166        | 161        | 171        | 169        | Poland                                              |

자료: IEA, World Energy Balance

Source: IEA, World Energy Balance

## 3-5. OECD 국가별 최종에너지 소비(2022년)

단위: 백만 toe

|           | 산업부문                                 |               |              |                        |             |              |                      |              |
|-----------|--------------------------------------|---------------|--------------|------------------------|-------------|--------------|----------------------|--------------|
|           | 농림어업                                 | 제조업           | 건설업          | 광업                     | 기타          | 소계           | 국내항공                 | 육상           |
| OECD계     | 79.59                                | 667.89        | 42.29        | 28.71                  | 73.47       | 891.95       | 72.30                | 1,080.39     |
| 호주        | 2.48                                 | 16.29         | 0.83         | 5.37                   | 0.21        | 25.18        | 2.08                 | 25.17        |
| 오스트리아     | 0.51                                 | 6.88          | 0.39         | 0.15                   | 0.19        | 8.12         | 0.02                 | 7.22         |
| 벨기에       | 0.81                                 | 9.06          | 0.18         | 0.05                   | 0.25        | 10.36        | 0.00                 | 8.24         |
| 캐나다       | 7.55                                 | 35.45         | 2.45         | 4.11                   | 4.42        | 53.99        | 2.48                 | 48.52        |
| 칠레        | 0.68                                 | 2.73          | 0.26         | 5.18                   | 2.62        | 11.46        | 0.50                 | 9.57         |
| 콜롬비아      | 0.44                                 | 5.28          | 0.02         | 0.50                   | 0.31        | 6.55         | 0.01                 | 12.88        |
| 코스타리카     | 0.10                                 | 0.68          | 0.03         | 0.00                   | 0.13        | 0.95         | 0.01                 | 1.90         |
| 체코        | 0.61                                 | 6.01          | 0.16         | 0.07                   | 0.34        | 7.19         | 0.01                 | 6.61         |
| 덴마크       | 0.68                                 | 1.88          | 0.21         | 0.10                   | 0.11        | 2.98         | 0.02                 | 3.71         |
| 에스토니아     | 0.10                                 | 0.30          | 0.04         | 0.00                   | 0.02        | 0.46         | 0.00                 | 0.83         |
| 핀란드       | 0.73                                 | 9.01          | 0.41         | 0.17                   | 0.23        | 10.56        | 0.04                 | 3.60         |
| 프랑스       | 4.69                                 | 23.90         | 1.59         | 0.42                   | 1.01        | 31.61        | 1.58                 | 41.55        |
| 독일        | 3.73                                 | 47.71         | 2.40         | 0.28                   | 3.07        | 57.20        | 0.34                 | 48.36        |
| 그리스       | 0.29                                 | 2.22          | 0.12         | 0.08                   | 0.15        | 2.85         | 0.23                 | 5.21         |
| 헝가리       | 0.60                                 | 3.67          | 0.29         | 0.04                   | 0.32        | 4.92         | 0.00                 | 5.09         |
| 아이슬랜드     | 0.32                                 | 1.32          | 0.01         | 0.00                   | 0.01        | 1.67         | 0.01                 | 0.32         |
| 아일랜드      | 0.33                                 | 1.91          | 0.06         | 0.04                   | 0.14        | 2.47         | 0.01                 | 3.76         |
| 이스라엘      | 0.21                                 | 0.49          | -            | 0.18                   | 1.74        | 2.61         | 0.02                 | 6.16         |
| 이탈리아      | 3.11                                 | 22.84         | 0.55         | 0.14                   | 1.29        | 27.92        | 0.81                 | 34.26        |
| 일본        | 4.79                                 | 70.35         | 2.20         | 0.26                   | 2.43        | 80.04        | 3.24                 | 56.35        |
| <b>한국</b> | <b>2.58</b>                          | <b>43.52</b>  | <b>0.10</b>  | <b>0.20</b>            | <b>3.74</b> | <b>50.14</b> | <b>1.60</b>          | <b>34.35</b> |
| 라트비아      | 0.20                                 | 0.85          | 0.03         | 0.01                   | 0.02        | 1.11         | 0.00                 | 0.99         |
| 리투아니아     | 0.13                                 | 0.81          | 0.04         | 0.01                   | 0.09        | 1.08         | 0.00                 | 2.03         |
| 룩셈부르크     | 0.03                                 | 0.42          | 0.02         | 0.00                   | 0.10        | 0.57         | 0.00                 | 1.55         |
| 멕시코       | 4.23                                 | 15.01         | 0.28         | 1.55                   | 15.15       | 36.23        | 0.02                 | 43.17        |
| 네덜란드      | 3.04                                 | 11.39         | 0.66         | 0.12                   | 0.34        | 15.54        | 0.01                 | 8.76         |
| 뉴질랜드      | 0.69                                 | 2.45          | 0.21         | 0.12                   | 0.92        | 4.38         | 0.34                 | 4.53         |
| 노르웨이      | 0.62                                 | 5.80          | 0.39         | 0.13                   | 0.06        | 7.00         | 0.35                 | 3.32         |
| 폴란드       | 3.30                                 | 13.54         | 0.18         | 0.51                   | 0.83        | 18.37        | 0.03                 | 23.39        |
| 포르투갈      | 0.48                                 | 4.17          | 0.17         | 0.08                   | 0.07        | 4.97         | 0.14                 | 5.47         |
| 튀르키예      | 5.04                                 | 28.68         | 0.62         | 0.48                   | 3.60        | 38.42        | 1.10                 | 28.21        |
| 슬로바키아     | 0.12                                 | 2.99          | 0.03         | 0.04                   | 0.16        | 3.35         | -                    | 2.56         |
| 슬로베니아     | 0.07                                 | 1.06          | 0.05         | 0.02                   | 0.06        | 1.26         | 0.00                 | 1.94         |
| 스페인       | 2.87                                 | 15.74         | 1.08         | 0.42                   | 0.57        | 20.67        | 2.44                 | 28.16        |
| 스웨덴       | 0.67                                 | 9.97          | 0.35         | 0.56                   | 0.41        | 11.95        | 0.11                 | 6.08         |
| 스위스       | 0.11                                 | 2.70          | 0.18         | -                      | 0.45        | 3.45         | 0.05                 | 4.89         |
| 영국        | 1.47                                 | 14.80         | 0.70         | -                      | 5.28        | 22.24        | 0.69                 | 35.79        |
| 미국        | 21.18                                | 225.99        | 24.99        | 7.34                   | 22.62       | 302.12       | 53.99                | 515.89       |
|           | Agriculture,<br>ForestryandFisheries | Manufacturing | Construction | Miningand<br>Quarrying | Other       | Subtotal     | Domestic<br>Aircraft | Land         |
|           | Industry                             |               |              |                        |             |              |                      |              |

자료 : IEA, World Energy Balance

### 3-5. Final Energy Consumption in OECD Countries(2022)

Unit: Million toe

| 수송부문           |                   |             |              | 가정부문         | 상업·공공부문               | 기타           | 합계            |                     |
|----------------|-------------------|-------------|--------------|--------------|-----------------------|--------------|---------------|---------------------|
| 철도             | 국내수상              | 기타          | 소계           |              |                       |              |               |                     |
| 25.08          | 20.42             | 36.99       | 1,235.18     | 705.61       | 472.21                | 382.30       | 3,687.25      | OECD Total          |
| 1.44           | 0.74              | 0.92        | 30.35        | 11.37        | 7.30                  | 4.85         | 79.05         | Australia           |
| 0.19           | 0.02              | 0.17        | 7.62         | 6.37         | 2.33                  | 1.69         | 26.13         | Austria             |
| 0.15           | 0.13              | 0.04        | 8.56         | 7.07         | 3.95                  | 6.46         | 36.39         | Belgium             |
| 2.06           | 1.14              | 5.03        | 59.22        | 32.97        | 27.20                 | 24.25        | 197.63        | Canada              |
| 0.09           | 0.30              | 0.00        | 10.47        | 4.92         | 1.91                  | 1.17         | 29.94         | Chile               |
| 0.01           | 0.02              | 0.12        | 13.04        | 7.78         | 1.95                  | 0.88         | 30.20         | Colombia            |
| 0.00           | 0.00              | 0.00        | 1.91         | 0.53         | 0.41                  | 0.06         | 3.85          | Costa Rica          |
| 0.22           | 0.00              | 0.02        | 6.85         | 6.85         | 2.86                  | 2.74         | 26.49         | Czech Republic      |
| 0.10           | 0.12              | 0.01        | 3.97         | 3.72         | 1.91                  | 0.23         | 12.81         | Denmark             |
| 0.01           | 0.01              | -           | 0.85         | 0.96         | 0.46                  | 0.13         | 2.86          | Estonia             |
| 0.08           | 0.11              | 0.00        | 3.84         | 4.95         | 2.89                  | 1.56         | 23.81         | Finland             |
| 0.83           | 0.53              | 0.10        | 44.58        | 33.85        | 19.78                 | 11.17        | 140.99        | France              |
| 1.19           | 0.23              | 0.67        | 50.79        | 55.73        | 25.29                 | 20.23        | 209.25        | Germany             |
| 0.02           | 0.62              | 0.00        | 6.08         | 4.22         | 1.75                  | 0.72         | 15.62         | Greece              |
| 0.14           | 0.00              | 0.02        | 5.25         | 5.79         | 1.88                  | 1.94         | 19.80         | Hungary             |
| -              | 0.01              | 0.00        | 0.34         | 0.48         | 0.51                  | 0.17         | 3.16          | Iceland             |
| 0.04           | 0.10              | 0.02        | 3.92         | 2.63         | 1.84                  | 0.24         | 11.10         | Ireland             |
| 0.06           | -                 | -           | 6.25         | 2.55         | 1.95                  | 2.55         | 15.91         | Israel              |
| 0.49           | 0.53              | 0.59        | 36.68        | 29.27        | 14.16                 | 5.84         | 113.88        | Italy               |
| 1.57           | 3.13              | -           | 64.29        | 41.53        | 45.32                 | 27.43        | 258.60        | Japan               |
| <b>0.32</b>    | <b>0.12</b>       | <b>0.18</b> | <b>36.56</b> | <b>21.19</b> | <b>20.33</b>          | <b>52.93</b> | <b>181.16</b> | <b>South Korea</b>  |
| 0.03           | 0.00              | 0.00        | 1.02         | 1.11         | 0.57                  | 0.10         | 3.92          | Latvia              |
| 0.03           | 0.00              | 0.03        | 2.09         | 1.48         | 0.62                  | 0.64         | 5.92          | Lithuania           |
| 0.02           | 0.00              | -           | 1.56         | 0.45         | 0.45                  | 0.03         | 3.06          | Luxembourg          |
| 0.70           | 0.58              | -           | 44.47        | 19.34        | 3.57                  | 5.16         | 108.77        | Mexico              |
| 0.17           | 0.25              | -           | 9.19         | 8.30         | 6.03                  | 10.45        | 49.50         | Netherlands         |
| 0.01           | 0.02              | -           | 4.89         | 1.54         | 1.32                  | 1.10         | 13.24         | New Zealand         |
| 0.08           | 1.37              | 0.01        | 5.13         | 3.84         | 2.85                  | 2.24         | 21.06         | Norway              |
| 0.38           | 0.00              | 0.08        | 23.87        | 20.28        | 8.13                  | 5.62         | 76.28         | Poland              |
| 0.05           | 0.08              | 0.00        | 5.74         | 2.66         | 1.84                  | 1.01         | 16.23         | Portugal            |
| 0.28           | 0.37              | 0.21        | 30.16        | 24.99        | 14.32                 | 4.94         | 112.83        | Republic of Türkiye |
| 0.04           | -                 | 0.07        | 2.68         | 2.61         | 1.27                  | 1.12         | 11.03         | Slovak Republic     |
| 0.03           | -                 | 0.00        | 1.97         | 0.99         | 0.42                  | 0.19         | 4.82          | Slovenia            |
| 0.33           | 1.09              | 0.15        | 32.17        | 14.03        | 9.34                  | 5.21         | 81.42         | Spain               |
| 0.24           | 0.14              | 0.03        | 6.60         | 7.06         | 4.21                  | 1.49         | 31.32         | Sweden              |
| 0.27           | 0.04              | 0.03        | 5.27         | 4.61         | 2.88                  | 0.59         | 16.80         | Switzerland         |
| 0.97           | 0.78              | -           | 38.23        | 31.61        | 12.93                 | 8.66         | 113.67        | United Kingdom      |
| 12.46          | 7.85              | 28.49       | 618.68       | 275.97       | 215.49                | 166.50       | 1,578.76      | United States       |
| Rail           | Domestic Shipping | Other       | Subtotal     | Residential  | Commercial and Public | Other        | Total         |                     |
| Transportation |                   |             |              |              |                       |              |               |                     |

Source : IEA, World Energy Balance



## 3-6. OECD 국가별 경제활동별 부가가치(2022년)

단위: 백만달러

|       | 산업부문                                      |               |              |           |           | 유통, 보수, 운수,<br>숙박, 음식업                                                 | 정보·통신업                              |
|-------|-------------------------------------------|---------------|--------------|-----------|-----------|------------------------------------------------------------------------|-------------------------------------|
|       | 농림어업                                      | 제조업           | 건설업          | 기타        | 소계        |                                                                        |                                     |
| 호주    | 37,818                                    | 76,917        | 102,002      | 190,576   | 407,313   | 227,317                                                                | 50,795                              |
| 오스트리아 | 5,038                                     | 81,269        | 19,598       | 92,588    | 198,493   | 79,639                                                                 | 17,342                              |
| 벨기에   | 3,074                                     | 60,342        | 22,941       | 67,904    | 154,260   | 88,553                                                                 | 23,761                              |
| 캐나다   | 32,426                                    | 163,789       | 127,414      | 285,642   | 609,272   | 282,673                                                                | 94,659                              |
| 칠레    | 10,013                                    | 26,036        | 15,887       | 50,704    | 102,640   | 49,881                                                                 | 11,628                              |
| 콜롬비아  | 20,964                                    | 42,776        | 15,983       | 66,506    | 146,229   | 63,335                                                                 | 11,156                              |
| 코스타리카 | 2,955                                     | 9,501         | 2,487        | 11,658    | 26,602    | 10,599                                                                 | 3,612                               |
| 체코    | 4,360                                     | 53,154        | 7,613        | 60,619    | 125,746   | 35,801                                                                 | 15,133                              |
| 덴마크   | 3,190                                     | 54,674        | 15,231       | 62,631    | 135,726   | 65,302                                                                 | 17,801                              |
| 에스토니아 | 330                                       | 3,741         | 1,901        | 4,599     | 10,572    | 5,012                                                                  | 2,123                               |
| 핀란드   | 5,536                                     | 36,830        | 13,360       | 44,562    | 100,289   | 33,081                                                                 | 15,173                              |
| 프랑스   | 33,204                                    | 261,978       | 117,451      | 289,564   | 702,197   | 381,655                                                                | 154,730                             |
| 독일    | 29,025                                    | 746,090       | 112,392      | 793,628   | 1,681,136 | 538,635                                                                | 184,274                             |
| 그리스   | 8,035                                     | 20,892        | 4,028        | 29,280    | 62,235    | 41,924                                                                 | 6,617                               |
| 헝가리   | 3,479                                     | 28,646        | 6,278        | 31,368    | 69,772    | 27,145                                                                 | 9,942                               |
| 아이슬랜드 | 1,183                                     | 2,049         | 1,370        | 3,145     | 7,747     | 3,649                                                                  | 1,055                               |
| 아일랜드  | 4,036                                     | 219,940       | 7,668        | 223,080   | 454,724   | 42,443                                                                 | 84,906                              |
| 이스라엘  | 4,870                                     | 52,482        | 20,670       | 59,066    | 137,088   | 55,709                                                                 | 41,380                              |
| 이탈리아  | 34,799                                    | 289,029       | 99,095       | 330,638   | 753,562   | 384,070                                                                | 71,600                              |
| 일본    | 47,042                                    | 987,250       | 223,992      | 1,131,792 | 2,390,075 | 861,256                                                                | 238,848                             |
| 한국    | 27,464                                    | 506,283       | 81,269       | 553,599   | 1,168,614 | 273,396                                                                | 86,698                              |
| 라트비아  | 914                                       | 3,535         | 1,334        | 4,255     | 10,039    | 7,676                                                                  | 1,803                               |
| 리투아니아 | 1,453                                     | 9,816         | 3,306        | 11,029    | 25,604    | 14,469                                                                 | 2,398                               |
| 룩셈부르크 | 129                                       | 3,081         | 2,886        | 3,781     | 9,877     | 8,800                                                                  | 4,312                               |
| 멕시코   | 42,963                                    | 267,829       | 64,057       | 315,283   | 690,132   | 373,777                                                                | 34,157                              |
| 네덜란드  | 15,425                                    | 105,255       | 41,567       | 126,543   | 288,790   | 168,468                                                                | 47,915                              |
| 뉴질랜드  | 8,604                                     | 19,837        | 13,908       | 26,651    | 69,000    | 35,594                                                                 | 6,345                               |
| 노르웨이  | 6,702                                     | 26,792        | 25,593       | 108,255   | 167,342   | 54,613                                                                 | 18,864                              |
| 폴란드   | 11,222                                    | 107,653       | 41,504       | 136,572   | 296,950   | 140,871                                                                | 33,941                              |
| 포르투갈  | 3,953                                     | 27,981        | 9,101        | 35,039    | 76,074    | 47,971                                                                 | 9,336                               |
| 슬로바키아 | 1,723                                     | 17,276        | 6,740        | 19,582    | 45,322    | 17,163                                                                 | 4,941                               |
| 슬로베니아 | 800                                       | 11,064        | 2,808        | 12,504    | 27,175    | 9,701                                                                  | 2,308                               |
| 스페인   | 28,078                                    | 149,226       | 68,456       | 187,695   | 433,455   | 288,477                                                                | 58,084                              |
| 스웨덴   | 5,968                                     | 86,412        | 31,289       | 101,139   | 224,807   | 89,990                                                                 | 45,503                              |
| 스위스   | 4,522                                     | 172,526       | 35,347       | 185,879   | 398,275   | 130,815                                                                | 35,910                              |
| 터키    | 66,414                                    | 207,303       | 62,980       | 240,868   | 577,566   | 298,453                                                                | 42,424                              |
| 영국    | 18,521                                    | 280,719       | 169,967      | 372,912   | 842,119   | 449,127                                                                | 267,351                             |
| 미국    | -                                         | -             | -            | -         | -         | -                                                                      | -                                   |
|       | Agriculture,<br>Forestry and<br>Fisheries | Manufacturing | Construction | Others    | Subtotal  | Distributive Trade,<br>Repairs; Transport;<br>Accommod.,<br>Food Serv. | Information<br>and<br>Communication |
|       | Industry                                  |               |              |           |           |                                                                        |                                     |

주 1) 4차 국제표준산업분류 기준

2) 2015년 불변가격 기준

자료: OECD Data explorer



### 3-6. Gross Value Added in OECD Countries(2022)

Unit: Million USD

| 금융·보험업                             | 부동산업                   | 교육, 과학, 기술,<br>행정 지원업                                       | 공공, 의무 사회<br>서비스업, 교육, 보건업                                       | 기타<br>서비스업               | 총부가가치             | 국내총생산            |                    |
|------------------------------------|------------------------|-------------------------------------------------------------|------------------------------------------------------------------|--------------------------|-------------------|------------------|--------------------|
| 116,184                            | 174,537                | 167,391                                                     | 277,769                                                          | 36,591                   | 1,370,927         | 1,465,797        | Australia          |
| 20,334                             | 34,601                 | 40,465                                                      | 65,045                                                           | 9,446                    | 382,775           | 427,236          | Austria            |
| 26,154                             | 47,275                 | 78,472                                                      | 101,509                                                          | 9,005                    | 468,000           | 520,746          | Belgium            |
| 127,697                            | 207,874                | 124,594                                                     | 337,980                                                          | 32,410                   | 1,652,591         | 1,761,102        | Canada             |
| 13,726                             | 21,055                 | 27,844                                                      | 49,805                                                           |                          | 248,381           | 279,120          | Chile              |
| 17,113                             | 30,900                 | 24,690                                                      | 53,033                                                           | 13,530                   | 317,350           | 354,623          | Colombia           |
| 4,294                              | 5,294                  | 8,855                                                       | 12,195                                                           | 2,139                    | 64,089            | 69,550           | Costa Rica         |
| 10,828                             | 16,779                 | 15,462                                                      | 28,766                                                           | 4,471                    | 199,144           | 220,137          | Czech Republic     |
| 15,478                             | 30,986                 | 29,409                                                      | 59,056                                                           | 9,387                    | 308,071           | 355,650          | Denmark            |
| 1,072                              | 2,780                  | 2,793                                                       | 3,476                                                            | 681                      | 24,746            | 28,434           | Estonia            |
| 8,244                              | 30,263                 | 21,173                                                      | 45,826                                                           | 6,881                    | 224,137           | 257,560          | Finland            |
| 110,135                            | 326,210                | 354,347                                                     | 514,808                                                          | 70,399                   | 2,352,994         | 2,646,451        | France             |
| 136,553                            | 351,938                | 412,207                                                     | 639,108                                                          | 114,780                  | 3,310,025         | 3,702,231        | Germany            |
| 9,316                              | 35,248                 | 11,755                                                      | 34,815                                                           | 6,566                    | 187,479           | 214,953          | Greece             |
| 5,326                              | 11,357                 | 16,484                                                      | 18,564                                                           | 4,187                    | 133,319           | 157,619          | Hungary            |
| 1,457                              | 2,048                  | 1,562                                                       | 3,837                                                            | 623                      | 19,961            | 22,131           | Iceland            |
| 18,146                             | 19,940                 | 47,617                                                      | 40,111                                                           | 5,517                    | 487,309           | 514,904          | Ireland            |
| 20,404                             | 46,924                 | 37,817                                                      | 66,672                                                           | 9,445                    | 363,323           | 408,205          | Israel             |
| 92,436                             | 236,093                | 213,553                                                     | 283,981                                                          | 65,222                   | 1,810,216         | 1,997,043        | Italy              |
| 230,765                            | 533,275                | 379,722                                                     | 771,884                                                          | 165,370                  | 4,582,257         | 4,529,855        | Japan              |
| <b>107,198</b>                     | <b>131,276</b>         | <b>126,175</b>                                              | <b>285,930</b>                                                   | <b>41,684</b>            | <b>1,713,391</b>  | <b>1,850,344</b> | <b>South Korea</b> |
| 899                                | 2,483                  | 2,173                                                       | 4,412                                                            | 783                      | 26,678            | 30,834           | Latvia             |
| 1,099                              | 3,054                  | 4,153                                                       | 5,585                                                            | 843                      | 47,259            | 52,485           | Lithuania          |
| 17,948                             | 5,479                  | 9,494                                                       | 11,259                                                           | 1,077                    | 65,274            | 71,655           | Luxembourg         |
| 53,110                             | 132,905                | 50,110                                                      | 126,963                                                          | 24,714                   | 1,214,145         | 1,287,850        | Mexico             |
| 59,378                             | 44,005                 | 139,755                                                     | 165,714                                                          | 20,529                   | 828,763           | 916,513          | Netherlands        |
| 11,712                             | 30,819                 | 25,246                                                      | 31,701                                                           | 7,315                    | 197,880           | 216,564          | New Zealand        |
| 20,902                             | 29,970                 | 30,385                                                      | 84,520                                                           | 7,589                    | 385,771           | 433,485          | Norway             |
| 26,953                             | 33,627                 | 52,482                                                      | 77,206                                                           | 8,900                    | 562,933           | 637,150          | Poland             |
| 10,615                             | 22,703                 | 17,908                                                      | 37,606                                                           | 5,470                    | 199,680           | 230,003          | Portugal           |
| 2,817                              | 9,409                  | 10,374                                                      | 15,482                                                           | 2,666                    | 91,199            | 102,984          | Slovak Republic    |
| 2,030                              | 3,213                  | 4,618                                                       | 7,118                                                            | 1,107                    | 46,247            | 53,387           | Slovenia           |
| 46,873                             | 154,554                | 126,674                                                     | 215,566                                                          | 52,928                   | 1,225,457         | 1,345,297        | Spain              |
| 26,768                             | 41,225                 | 62,326                                                      | 94,929                                                           | 14,432                   | 511,589           | 575,505          | Sweden             |
| 81,787                             | 50,302                 | 76,952                                                      | 145,727                                                          | 22,101                   | 767,747           | 790,319          | Switzerland        |
| 42,708                             | 83,475                 | 62,347                                                      | 134,311                                                          | 30,338                   | 1,069,408         | 1,194,402        | Turkey             |
| 233,772                            | 379,133                | 374,111                                                     | 524,207                                                          | 89,050                   | 2,888,211         | 3,223,545        | United Kingdom     |
| -                                  | -                      | -                                                           | -                                                                | -                        | -                 | 21,236,309       | United States      |
| Financial and Insurance Activities | Real Estate Activities | Prof., Scientific, Techn., Admin., Support Serv. Activities | Public Admin.; Compulsory Social Serv.; Education; Human Healths | Other Service Activities | Gross Value Added | GDP(PPP)         |                    |

Note 1) Based on ISIC(International Standard Industrial Classification of All Economic Activities) rev.4

2) Based on 2015 constant prices

Source: OECD Data explorer

## 3-7. 에너지원별 국제 가격

|      | 석탄(달러/톤)                   |                               |                    | 원유(달러/배럴)    |        |                         |
|------|----------------------------|-------------------------------|--------------------|--------------|--------|-------------------------|
|      | 미국 <sup>1</sup>            | 북서유럽 <sup>2</sup>             | 일본 <sup>3</sup>    | 두바이          | 브렌트    | WTI                     |
| 1990 | 31.59                      | 43.48                         | -                  | 20.21        | 23.73  | 24.46                   |
| 1991 | 29.01                      | 42.80                         | -                  | 16.70        | 20.00  | 21.53                   |
| 1992 | 28.53                      | 38.53                         | -                  | 17.18        | 19.32  | 20.57                   |
| 1993 | 29.85                      | 33.68                         | -                  | 14.99        | 16.97  | 18.45                   |
| 1994 | 31.72                      | 37.18                         | -                  | 14.69        | 15.82  | 17.21                   |
| 1995 | 27.01                      | 44.50                         | -                  | 16.08        | 17.02  | 18.42                   |
| 1996 | 29.86                      | 41.25                         | -                  | 19.26        | 20.67  | 22.16                   |
| 1997 | 29.76                      | 38.92                         | -                  | 18.31        | 19.09  | 20.61                   |
| 1998 | 31.00                      | 32.00                         | -                  | 12.30        | 12.72  | 14.39                   |
| 1999 | 31.29                      | 28.79                         | -                  | 16.90        | 17.97  | 19.31                   |
| 2000 | 29.90                      | 35.99                         | -                  | 26.27        | 28.50  | 30.37                   |
| 2001 | 50.15                      | 39.03                         | 37.69              | 22.78        | 24.44  | 25.93                   |
| 2002 | 33.20                      | 31.65                         | 31.47              | 23.60        | 25.02  | 26.16                   |
| 2003 | 38.52                      | 43.60                         | 39.61              | 26.75        | 28.83  | 31.06                   |
| 2004 | 64.90                      | 72.13                         | 74.22              | 33.51        | 38.27  | 41.49                   |
| 2005 | 70.12                      | 60.54                         | 64.62              | 46.78        | 54.52  | 56.59                   |
| 2006 | 57.82                      | 64.11                         | 65.22              | 61.48        | 65.14  | 66.04                   |
| 2007 | 49.73                      | 88.79                         | 95.59              | 67.92        | 72.39  | 72.20                   |
| 2008 | 117.42                     | 147.67                        | 157.88             | 94.28        | 97.26  | 100.06                  |
| 2009 | 60.73                      | 70.39                         | 83.59              | 61.14        | 61.67  | 61.92                   |
| 2010 | 67.87                      | 92.50                         | 108.47             | 77.78        | 79.50  | 79.45                   |
| 2011 | 84.75                      | 121.48                        | 126.13             | 105.93       | 111.26 | 95.04                   |
| 2012 | 67.28                      | 92.50                         | 100.30             | 109.06       | 111.67 | 94.13                   |
| 2013 | 69.72                      | 81.69                         | 90.07              | 105.47       | 108.66 | 97.99                   |
| 2014 | 67.08                      | 75.38                         | 76.13              | 97.02        | 98.95  | 93.28                   |
| 2015 | 51.57                      | 56.79                         | 60.10              | 51.22        | 52.39  | 48.71                   |
| 2016 | 51.45                      | 60.09                         | 71.66              | 41.02        | 43.73  | 43.34                   |
| 2017 | 63.83                      | 84.51                         | 96.02              | 53.02        | 54.19  | 50.79                   |
| 2018 | 72.84                      | 91.83                         | 112.73             | 70.15        | 71.31  | 65.20                   |
| 2019 | 57.16                      | 60.17                         | 73.57              | 63.71        | 64.21  | 57.03                   |
| 2020 | 42.77                      | 50.13                         | 61.03              | 42.41        | 41.84  | 39.25                   |
| 2021 | 68.54                      | 122.60                        | 114.59             | 68.91        | 70.91  | 68.10                   |
| 2022 | 157.57                     | 291.28                        | 214.57             | 96.38        | 101.32 | 94.58                   |
| 2023 | 73.59                      | 129.54                        | 130.25             | 82.10        | 82.17  | 77.60                   |
|      | United States <sup>1</sup> | Northwest Europe <sup>2</sup> | Japan <sup>3</sup> | Dubai        | Brent  | West Texas Intermediate |
|      | Coal(USD/Ton)              |                               |                    | Oil(USD/bbl) |        |                         |

1. CAPP 12,500 Btu, 1.2 SO<sub>2</sub>석탄(fcb) 기준. 1996~2000년 가격은 석탄 가격 공표일 기준. 2001~2005년 가격은 석탄 가격 평가일 기준. 2006년부터는 장외시장(OTC) 일일 평균 가격 기준

2. 1990~2000년 평균 월별 기준 가격. 2001~2018년 평균 주별 가격. 2019년부터는 S&P Global Commodity Insights의 월간 평균 가격 기준.

3. 2001~2018년 IHS 일본 가격 기준 = 6,000 kcal/kg NAR CIF. 2019년부터는 S&P Global Commodity Insights의 월간 평균 가격 기준.

4. ICIS Heren Energy Ltd는 2004년까지 운영. 2005년부터는 S&P Global Commodity Insights로 변경.

5. 미국 에너지 정보센터(EIA)는 2004년까지 운영. 2005년부터는 S&P Global Commodity Insights로 변경.

6. EDMC Energy Trend 및 bp 분석은 2004년까지 운영. 2005년부터는 S&P Global Commodity Insights로 변경.

7. S&P Global Commodity Insights.

8. RON은 옥탄가를 나타냄.

자료: E 2024 Energy Institute Statistical Review of World Energy, 한국석유공사

### 3-7. International Prices by Energy Source

| 천연가스(달러/백만Btu)            |                              | LNG(달러/백만Btu)      |                          | 석유제품(달러/배럴)                      |              |                  |                    |        |      |
|---------------------------|------------------------------|--------------------|--------------------------|----------------------------------|--------------|------------------|--------------------|--------|------|
| 영국<br>NBP <sup>4</sup>    | 미국<br>Henry Hub <sup>5</sup> | 일본 <sup>6</sup>    | 한국 <sup>7</sup>          | 휘발유<br>(95RON) <sup>8</sup>      | 등유           | 경유<br>(0.5%)     | 경유<br>(0.001%)     | 나프타    |      |
| -                         | 1.64                         | 3.64               | -                        | -                                | -            | -                | -                  | -      | 1990 |
| -                         | 1.49                         | 3.99               | -                        | -                                | -            | -                | -                  | -      | 1991 |
| -                         | 1.77                         | 3.62               | -                        | -                                | -            | -                | -                  | -      | 1992 |
| -                         | 2.12                         | 3.52               | -                        | -                                | -            | -                | -                  | -      | 1993 |
| -                         | 1.92                         | 3.18               | -                        | -                                | -            | -                | -                  | -      | 1994 |
| -                         | 1.69                         | 3.46               | -                        | 21.62                            | 23.64        | 21.54            | -                  | 16.36  | 1995 |
| 1.87                      | 2.76                         | 3.66               | -                        | 23.63                            | 28.45        | 27.17            | -                  | 20.31  | 1996 |
| 1.96                      | 2.53                         | 3.91               | -                        | 24.49                            | 24.94        | 24.34            | -                  | 21.93  | 1997 |
| 1.86                      | 2.08                         | 3.05               | -                        | 17.24                            | 16.44        | 15.58            | -                  | 14.85  | 1998 |
| 1.58                      | 2.27                         | 3.14               | -                        | 21.20                            | 21.60        | 19.34            | -                  | 19.61  | 1999 |
| 2.71                      | 4.23                         | 4.72               | -                        | 32.77                            | 34.51        | 32.76            | -                  | 28.48  | 2000 |
| 3.17                      | 4.07                         | 4.64               | -                        | 27.48                            | 28.36        | 27.37            | -                  | 23.82  | 2001 |
| 2.37                      | 3.33                         | 4.27               | -                        | 28.13                            | 28.15        | 27.61            | -                  | 24.99  | 2002 |
| 3.33                      | 5.63                         | 4.77               | -                        | 34.72                            | 32.98        | 32.38            | -                  | 29.96  | 2003 |
| 4.46                      | 5.85                         | 5.18               | -                        | 47.31                            | 47.55        | 45.76            | -                  | 40.74  | 2004 |
| 7.38                      | 8.79                         | 6.05               | 7.18                     | 61.42                            | 68.06        | 64.46            | -                  | 51.23  | 2005 |
| 7.87                      | 6.76                         | 7.13               | 8.64                     | 72.46                            | 80.68        | 76.84            | -                  | 62.13  | 2006 |
| 6.01                      | 6.95                         | 7.73               | 8.84                     | 81.79                            | 86.89        | 85.05            | -                  | 75.24  | 2007 |
| 10.79                     | 8.85                         | 12.55              | 13.27                    | 102.04                           | 122.25       | 120.40           | -                  | 89.67  | 2008 |
| 4.85                      | 3.89                         | 9.06               | 9.28                     | 68.24                            | 70.25        | 69.32            | -                  | 61.05  | 2009 |
| 6.56                      | 4.39                         | 10.93              | 9.74                     | 86.30                            | 90.27        | 89.62            | -                  | 79.33  | 2010 |
| 9.04                      | 4.01                         | 14.77              | 12.37                    | 117.43                           | 125.71       | 124.62           | -                  | 102.49 | 2011 |
| 9.46                      | 2.76                         | 16.75              | 14.37                    | 120.26                           | 126.80       | 126.39           | 126.50             | 103.57 | 2012 |
| 10.64                     | 3.71                         | 16.17              | 14.47                    | 116.03                           | 122.85       | -                | 124.88             | 100.98 | 2013 |
| 8.25                      | 4.35                         | 16.33              | 15.84                    | 108.02                           | 112.34       | -                | 113.82             | 94.16  | 2014 |
| 6.53                      | 2.60                         | 10.27              | 10.28                    | 66.31                            | 64.62        | -                | 66.52              | 52.51  | 2015 |
| 4.69                      | 2.46                         | 6.93               | 6.69                     | 53.45                            | 53.01        | -                | 53.22              | 42.63  | 2016 |
| 5.80                      | 2.96                         | 8.10               | 7.84                     | 65.45                            | 65.34        | -                | 66.43              | 53.83  | 2017 |
| 8.06                      | 3.12                         | 10.07              | 9.96                     | 77.94                            | 85.03        | -                | 85.22              | 67.28  | 2018 |
| 4.47                      | 2.51                         | 9.94               | 9.58                     | 69.53                            | 77.26        | -                | 78.20              | 56.95  | 2019 |
| 3.42                      | 1.99                         | 7.78               | 7.41                     | 45.10                            | 44.83        | -                | 49.45              | 40.56  | 2020 |
| 15.80                     | 3.84                         | 10.07              | 10.50                    | 78.51                            | 75.28        | -                | 77.81              | 70.80  | 2021 |
| 25.10                     | 6.38                         | 16.98              | 20.00                    | 111.01                           | 126.92       | -                | 135.57             | 82.97  | 2022 |
| 12.30                     | 2.53                         | 13.22              | 14.82                    | 94.04                            | 104.58       | -                | 106.42             | 69.09  | 2023 |
| UK<br>NBP <sup>4</sup>    | US<br>Henry Hub <sup>5</sup> | Japan <sup>6</sup> | South Korea <sup>7</sup> | Gasoline<br>(95RON) <sup>8</sup> | Kero<br>sene | Diesel<br>(0.5%) | Diesel<br>(0.001%) | Naptha |      |
| Natural Gas(USD/Mil. Btu) |                              | LNG(USD/Mil. Btu)  |                          | Petroleum Products(USD/bbl)      |              |                  |                    |        |      |

1. Source: S&P Global Commodity Insights. Prices are for CAPP 12,500 Btu, 1.2 SO2 coal, fob. Prices for 1996-2000 are by coal price publication date, 2001-2005 by coal price assessment date. From 2006, average daily OTC.

2. Source: IHS Northwest Europe prices for 1990-2000 average monthly marker prices, 2001-2018 average weekly prices. From 2019, monthly average of S&P Global Commodity Insights.

3. Source: 2001-2018 IHS Japan prices basis = 6,000 kilocalories per kilogram NAR CIF. From 2019, monthly average of S&P Global Commodity Insights.

4. Source: ICS Heren Energy Ltd to 2004. From 2005, S&P Global Commodity Insights.

5. Source: US Energy Information Administration (EIA) to 2004. From 2005, S&P Global Commodity Insights.

6. Source: EDMC Energy Trend, bp analysis to 2004. From 2005, S&P Global Commodity Insights.

7. Source: S&P Global Commodity Insights.

8. RON: Research Octane Number

Source: EI 2024 Energy Institute Statistical Review of World Energy, Korea National Oil Corporation

3-8. 주요국 CO<sub>2</sub> 배출량CO<sub>2</sub> Emissions in Selected Countries단위: 백만톤 CO<sub>2</sub>eq.Unit: Million Tons CO<sub>2</sub>eq

|          | 1990   | 2000   | 2010   | 2015   | 2018   | 2019   | 2020   | 2021   | 2022   |                                           |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------------------------------|
| 중국       | 2,123  | 3,138  | 7,872  | 9,178  | 9,832  | 9,992  | 10,088 | 10,683 | 10,613 | China(P.R. of China and Hong Kong, China) |
| 미국       | 4,803  | 5,730  | 5,352  | 4,929  | 4,910  | 4,745  | 4,258  | 4,549  | 4,608  | United States                             |
| 인도       | 530    | 890    | 1,572  | 2,036  | 2,316  | 2,278  | 2,075  | 2,279  | 2,517  | India                                     |
| 러시아      | 2,164  | 1,474  | 1,529  | 1,533  | 1,602  | 1,640  | 1,560  | 1,678  | 1,623  | Russian Federation                        |
| 일본       | 1,052  | 1,149  | 1,133  | 1,152  | 1,086  | 1,048  | 991    | 998    | 974    | Japan                                     |
| 독일       | 940    | 812    | 759    | 730    | 695    | 645    | 593    | 624    | 612    | Germany                                   |
| 한국       | 232    | 422    | 551    | 582    | 605    | 587    | 547    | 559    | 540    | Korea                                     |
| 이란       | 171    | 312    | 499    | 556    | 569    | 610    | 622    | 643    | 696    | Islamic Republic of Iran                  |
| 캐나다      | 409    | 504    | 521    | 541    | 559    | 552    | 498    | 506    | 523    | Canada                                    |
| 사우디아라비아  | 151    | 235    | 418    | 531    | 498    | 498    | 483    | 497    | 533    | Saudi Arabia                              |
| 브라질      | 185    | 295    | 374    | 456    | 411    | 408    | 386    | 439    | 414    | Brazil                                    |
| 멕시코      | 257    | 360    | 440    | 442    | 416    | 423    | 356    | 375    | 380    | Mexico                                    |
| 인도네시아    | 131    | 255    | 392    | 459    | 533    | 571    | 533    | 557    | 652    | Indonesia                                 |
| 남아프리카공화국 | 244    | 281    | 420    | 419    | 433    | 440    | 386    | 392    | 394    | South Africa                              |
| 영국       | 549    | 521    | 477    | 393    | 353    | 338    | 301    | 321    | 309    | United Kingdom                            |
| 호주       | 260    | 335    | 392    | 378    | 386    | 384    | 369    | 361    | 355    | Australia                                 |
| 이탈리아     | 389    | 420    | 392    | 330    | 317    | 309    | 274    | 310    | 310    | Italy                                     |
| 튀르키예     | 129    | 201    | 268    | 319    | 375    | 366    | 366    | 401    | 390    | Republic of Türkiye                       |
| 프랑스      | 345    | 365    | 340    | 304    | 300    | 293    | 261    | 292    | 283    | France                                    |
| 폴란드      | 345    | 290    | 307    | 283    | 304    | 287    | 272    | 299    | 285    | Poland                                    |
| 대만       | 118    | 223    | 264    | 273    | 280    | 271    | 270    | 279    | 270    | Chinese Taipei                            |
| 태국       | 82     | 153    | 222    | 248    | 241    | 252    | 242    | 235    | 250    | Thailand                                  |
| 스페인      | 203    | 279    | 263    | 248    | 249    | 233    | 195    | 211    | 217    | Spain                                     |
| 카자흐스탄    | 237    | 112    | 221    | 180    | 209    | 198    | 204    | 224    | 226    | Kazakhstan                                |
| OECD     | 11,110 | 12,604 | 12,441 | 11,764 | 11,681 | 11,308 | 10,284 | 10,848 | 10,797 | OECD                                      |
| 비OECD    | 8,798  | 9,804  | 17,046 | 19,415 | 20,733 | 21,041 | 20,524 | 21,739 | 22,188 | Non-OECD                                  |
| 국제 범커링   | 632    | 859    | 1,129  | 1,199  | 1,326  | 1,319  | 932    | 985    | 1,131  | Intl. Bunkering                           |
| 전세계      | 20,540 | 23,266 | 30,616 | 32,378 | 33,740 | 33,668 | 31,740 | 33,572 | 34,117 | World                                     |

자료: IEA, CO<sub>2</sub> emissions from fuel combustion 2024Source: IEA, CO<sub>2</sub> emissions from fuel combustion 2024

## 3-9. 주요국 석유정제 능력

## Refinery Capacities in Selected Countries

단위: 배럴/일

Unit: Thousand Barrels per Day

|          | 1985   | 1995   | 2005   | 2015   | 2021    | 2022    | 2023    | '23년 점유율<br>Share of total<br>2023 |                |
|----------|--------|--------|--------|--------|---------|---------|---------|------------------------------------|----------------|
| 전세계      | 73,387 | 76,800 | 88,040 | 98,167 | 101,367 | 101,902 | 103,498 | 100.0%                             | Total World    |
| Non-OECD | 31,902 | 34,555 | 42,292 | 53,397 | 57,713  | 58,486  | 59,844  | 57.8%                              | Non-OECD       |
| OECD     | 41,485 | 42,245 | 45,748 | 44,771 | 43,654  | 43,416  | 43,654  | 42.2%                              | OECD           |
| 미국       | 15,459 | 15,333 | 17,339 | 18,317 | 17,941  | 18,061  | 18,429  | 17.8%                              | United States  |
| 중국       | 2,348  | 4,386  | 8,463  | 15,024 | 16,990  | 17,259  | 18,484  | 17.9%                              | China          |
| 유럽연합     | 14,241 | 13,476 | 14,387 | 12,871 | 12,313  | 12,210  | 12,154  | 11.7%                              | European Union |
| 러시아      | 7,072  | 6,612  | 5,313  | 6,472  | 6,861   | 6,821   | 6,781   | 6.6%                               | Russia         |
| 인도       | 867    | 1,133  | 2,558  | 4,307  | 5,005   | 5,045   | 5,085   | 4.9%                               | India          |
| 한국       | 751    | 1,727  | 2,598  | 3,128  | 3,363   | 3,363   | 3,363   | 3.3%                               | South Korea    |
| 일본       | 4,724  | 5,006  | 4,531  | 3,721  | 3,285   | 3,164   | 3,069   | 3.0%                               | Japan          |
| 사우디아라비아  | 1,510  | 1,692  | 2,102  | 2,899  | 2,977   | 3,312   | 3,289   | 3.2%                               | Saudi Arabia   |
| 이란       | 1,085  | 1,405  | 1,692  | 2,075  | 2,610   | 2,670   | 2,604   | 2.5%                               | Iran           |
| 브라질      | 1,435  | 1,481  | 1,942  | 2,281  | 2,303   | 2,304   | 2,290   | 2.2%                               | Brazil         |
| 독일       | 2,198  | 2,104  | 2,322  | 2,049  | 2,121   | 2,121   | 2,076   | 2.0%                               | Germany        |
| 캐나다      | 1,880  | 1,792  | 1,896  | 1,931  | 1,954   | 1,954   | 1,954   | 1.9%                               | Canada         |
| 이탈리아     | 2,585  | 2,359  | 2,515  | 1,900  | 1,900   | 1,794   | 1,794   | 1.7%                               | Italy          |
| 스페인      | 1,312  | 1,308  | 1,377  | 1,562  | 1,591   | 1,591   | 1,591   | 1.5%                               | Spain          |
| 멕시코      | 1,263  | 1,444  | 1,463  | 1,522  | 1,558   | 1,558   | 1,558   | 1.5%                               | Mexico         |
| 싱가포르     | 1,043  | 1,175  | 1,420  | 1,514  | 1,461   | 1,302   | 1,302   | 1.3%                               | Singapore      |
| 아랍에미레이트  | 180    | 220    | 711    | 1,149  | 1,246   | 1,246   | 1,259   | 1.2%                               | U.A.E          |
| 베네수엘라    | 1,243  | 1,217  | 1,291  | 1,303  | 1,303   | 1,303   | 1,303   | 1.3%                               | Venezuela      |
| 영국       | 1,864  | 1,844  | 1,819  | 1,337  | 1,251   | 1,251   | 1,219   | 1.2%                               | United Kingdom |
| 프랑스      | 2,184  | 1,728  | 1,978  | 1,375  | 1,140   | 1,140   | 1,145   | 1.1%                               | France         |
| 태국       | 166    | 477    | 1,078  | 1,252  | 1,245   | 1,244   | 1,244   | 1.2%                               | Thailand       |
| 네덜란드     | 1,478  | 1,257  | 1,274  | 1,298  | 1,238   | 1,241   | 1,241   | 1.2%                               | Netherlands    |
| 대만       | 570    | 732    | 1,159  | 988    | 1,131   | 1,083   | 1,083   | 1.1%                               | Taiwan         |
| 인도네시아    | 824    | 941    | 1,004  | 1,111  | 1,094   | 1,104   | 1,242   | 1.2%                               | Indonesia      |
| 말레이시아    | 209    | 365    | 522    | 612    | 955     | 955     | 955     | 0.9%                               | Malaysia       |

자료: EI 2024 Energy Institute Statistical Review of World Energy

Source: EI 2024 Energy Institute Statistical Review of World Energy



# 04

## 주요 경제·사회 통계

Major Economic  
and Social Statistics



## 04 주요 경제·사회 통계

- 4-1. 주요 통계 지표
- 4-2. 수출입액 및 경상수지
- 4-3. 경제활동별 국내총생산(2020년 기준 연쇄가격)
- 4-4. 산업생산지수
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- 4-6. 산업별 월평균 근로시간(10인 이상)
- 4-7. 산업별 월평균 임금(10인 이상)
- 4-8. 도시 가구의 가구당 월평균 가계수지
- 4-9. 에너지 다소비 업종의 주요제품 생산량
- 4-10. 자동차 등록대수
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- 4-12. 화물 수송 실적
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# 04 Major Economic and Social Statistics



- 4-1. Indicators and Statistics
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- 4-3. Gross Domestic Product by Economic Activity(At Chained 2020 Prices)
- 4-4. Industrial Production Index
- 4-5. Manufacturing Operation Ratio Index
- 4-6. Monthly Working Hours by Industry(10 or More Employees)
- 4-7. Monthly Earnings of Employees by Industry(10 or More Employees)
- 4-8. Average Monthly Income and Expenditure per Household in Urban Areas
- 4-9. Product Production in Energy-Intensive Industries
- 4-10. Number of Vehicles Registered
- 4-11. Passenger Traffic
- 4-12. Freight Traffic
- 4-13. Consumer Price Indices
- 4-14. Producer Price Indices

## 4-1. 주요 통계 지표

|      | 추계인구<br>(천명)                  | 추계가구<br>(천가구)                   | 국내총생산                |                           |                                 |
|------|-------------------------------|---------------------------------|----------------------|---------------------------|---------------------------------|
|      |                               |                                 | 당해년가격                | 2020년 연쇄가격                | 당해년가격                           |
|      |                               |                                 | (십억원)                |                           | (십억달러)                          |
| 1990 | 42,869                        | 11,244                          | 206,713              | 495,738                   | 292                             |
| 1991 | 43,296                        | 11,549                          | 249,965              | 549,650                   | 340                             |
| 1992 | 43,748                        | 11,896                          | 286,437              | 584,561                   | 366                             |
| 1993 | 44,195                        | 12,233                          | 325,648              | 625,450                   | 405                             |
| 1994 | 44,642                        | 12,586                          | 384,997              | 684,066                   | 478                             |
| 1995 | 45,093                        | 13,018                          | 452,187              | 750,666                   | 584                             |
| 1996 | 45,525                        | 13,241                          | 507,768              | 810,647                   | 629                             |
| 1997 | 45,954                        | 13,550                          | 560,502              | 861,573                   | 586                             |
| 1998 | 46,287                        | 13,839                          | 556,787              | 819,021                   | 393                             |
| 1999 | 46,617                        | 14,146                          | 613,069              | 914,169                   | 510                             |
| 2000 | 47,008                        | 14,507                          | 675,733              | 998,289                   | 594                             |
| 2001 | 47,370                        | 14,775                          | 732,723              | 1,045,468                 | 564                             |
| 2002 | 47,645                        | 15,110                          | 813,225              | 1,126,429                 | 648                             |
| 2003 | 47,892                        | 15,434                          | 868,111              | 1,161,063                 | 726                             |
| 2004 | 48,083                        | 15,732                          | 942,885              | 1,221,249                 | 822                             |
| 2005 | 48,185                        | 16,039                          | 995,176              | 1,274,473                 | 965                             |
| 2006 | 48,438                        | 16,322                          | 1,045,663            | 1,341,320                 | 1,091                           |
| 2007 | 48,684                        | 16,602                          | 1,134,541            | 1,419,679                 | 1,218                           |
| 2008 | 49,055                        | 16,883                          | 1,202,973            | 1,462,332                 | 1,091                           |
| 2009 | 49,308                        | 17,168                          | 1,255,306            | 1,474,321                 | 982                             |
| 2010 | 49,554                        | 17,495                          | 1,379,460            | 1,577,253                 | 1,195                           |
| 2011 | 49,937                        | 17,879                          | 1,448,576            | 1,635,423                 | 1,315                           |
| 2012 | 50,200                        | 18,119                          | 1,504,674            | 1,677,088                 | 1,349                           |
| 2013 | 50,429                        | 18,388                          | 1,570,938            | 1,732,287                 | 1,443                           |
| 2014 | 50,747                        | 18,705                          | 1,638,485            | 1,787,975                 | 1,563                           |
| 2015 | 51,015                        | 19,013                          | 1,740,776            | 1,840,189                 | 1,543                           |
| 2016 | 51,218                        | 19,281                          | 1,833,027            | 1,898,551                 | 1,585                           |
| 2017 | 51,362                        | 19,571                          | 1,934,234            | 1,963,732                 | 1,717                           |
| 2018 | 51,585                        | 19,876                          | 2,006,975            | 2,026,102                 | 1,831                           |
| 2019 | 51,765                        | 20,220                          | 2,040,594            | 2,072,982                 | 1,765                           |
| 2020 | 51,836                        | 20,731                          | 2,058,467            | 2,058,467                 | 1,759                           |
| 2021 | 51,770                        | 21,271                          | 2,221,913            | 2,153,423                 | 1,962                           |
| 2022 | 51,673                        | 21,663                          | 2,323,782            | 2,212,159                 | 1,820                           |
| 2023 | 51,713                        | 21,970                          | 2,401,189            | 2,243,220                 | 1,872                           |
|      | Population<br>(Thou. Persons) | Household<br>(Thou. Households) | At Current<br>Prices | At Chained<br>2020 Prices | At Current Prices<br>(Bil. USD) |
|      |                               |                                 | GDP(Bil. KRW)        |                           |                                 |

자료: 통계청

## 4-1. Indicators and Statistics

| 국민총소득                           |                                     | 1인당 명목 GNI     |        | 대미달러                        |        |      |
|---------------------------------|-------------------------------------|----------------|--------|-----------------------------|--------|------|
| 당해년가격                           | 2020년 연쇄가격                          |                |        | 연평균                         | 기말     |      |
| (십억원)                           | (십억원)                               | (만원)           | (달러)   | (원)                         |        |      |
| 206,512                         | 560,880                             | 482            | 6,804  | 712                         | 717    | 1990 |
| 249,718                         | 622,725                             | 577            | 7,862  | 734                         | 760    | 1991 |
| 286,069                         | 661,776                             | 654            | 8,374  | 781                         | 787    | 1992 |
| 325,227                         | 710,351                             | 736            | 9,167  | 803                         | 807    | 1993 |
| 384,058                         | 777,416                             | 860            | 10,706 | 803                         | 789    | 1994 |
| 450,583                         | 846,833                             | 999            | 12,960 | 771                         | 776    | 1995 |
| 506,047                         | 904,244                             | 1,112          | 13,812 | 805                         | 845    | 1996 |
| 557,591                         | 943,160                             | 1,213          | 12,758 | 954                         | 1,695  | 1997 |
| 549,834                         | 872,464                             | 1,188          | 8,492  | 1,395                       | 1,204  | 1998 |
| 606,546                         | 967,269                             | 1,301          | 10,939 | 1,189                       | 1,138  | 1999 |
| 671,372                         | 1,033,455                           | 1,428          | 12,632 | 1,131                       | 1,265  | 2000 |
| 727,938                         | 1,073,365                           | 1,537          | 11,905 | 1,291                       | 1,314  | 2001 |
| 810,313                         | 1,167,443                           | 1,701          | 13,592 | 1,251                       | 1,186  | 2002 |
| 865,189                         | 1,198,481                           | 1,807          | 15,157 | 1,192                       | 1,193  | 2003 |
| 941,311                         | 1,248,797                           | 1,958          | 17,103 | 1,144                       | 1,035  | 2004 |
| 988,413                         | 1,282,430                           | 2,051          | 20,026 | 1,024                       | 1,012  | 2005 |
| 1,042,726                       | 1,333,090                           | 2,153          | 22,529 | 955                         | 930    | 2006 |
| 1,131,778                       | 1,407,233                           | 2,325          | 25,019 | 929                         | 936    | 2007 |
| 1,203,266                       | 1,412,810                           | 2,453          | 22,247 | 1,103                       | 1,260  | 2008 |
| 1,253,438                       | 1,449,570                           | 2,542          | 19,916 | 1,276                       | 1,165  | 2009 |
| 1,381,436                       | 1,557,957                           | 2,788          | 24,110 | 1,156                       | 1,135  | 2010 |
| 1,457,173                       | 1,584,315                           | 2,918          | 26,334 | 1,108                       | 1,152  | 2011 |
| 1,519,752                       | 1,632,613                           | 3,027          | 26,865 | 1,127                       | 1,071  | 2012 |
| 1,580,504                       | 1,696,556                           | 3,134          | 28,621 | 1,095                       | 1,055  | 2013 |
| 1,646,049                       | 1,755,430                           | 3,244          | 30,798 | 1,053                       | 1,099  | 2014 |
| 1,745,962                       | 1,870,222                           | 3,422          | 30,247 | 1,132                       | 1,173  | 2015 |
| 1,839,391                       | 1,956,502                           | 3,591          | 30,946 | 1,160                       | 1,208  | 2016 |
| 1,941,717                       | 2,019,724                           | 3,780          | 33,431 | 1,130                       | 1,071  | 2017 |
| 2,014,589                       | 2,059,131                           | 3,905          | 35,494 | 1,101                       | 1,116  | 2018 |
| 2,057,204                       | 2,072,357                           | 3,974          | 34,094 | 1,166                       | 1,156  | 2019 |
| 2,075,410                       | 2,075,410                           | 4,004          | 33,929 | 1,180                       | 1,086  | 2020 |
| 2,245,327                       | 2,154,357                           | 4,337          | 37,898 | 1,145                       | 1,189  | 2021 |
| 2,351,837                       | 2,143,108                           | 4,551          | 35,229 | 1,292                       | 1,265  | 2022 |
| 2,443,318                       | 2,189,887                           | 4,725          | 36,194 | 1,306                       | 1,288  | 2023 |
| At Current Prices<br>(Bil. KRW) | At Chained<br>2020 Prices(Bil. KRW) | Per Capita GNI |        | Average                     | End of |      |
|                                 |                                     |                |        | Exchange Rates<br>(KRW/USD) |        |      |
|                                 | GNI                                 | (10,000KRW)    | (USD)  |                             |        |      |

Source : Statistics Korea

## 4-2. 수출입액 및 경상수지

단위: 백만달러

|      | 총수출액 <sup>1</sup>   | 총수입액 <sup>1</sup>   | 경상수지                    | 에너지수입액        | 석탄 <sup>2</sup>   |            |            |
|------|---------------------|---------------------|-------------------------|---------------|-------------------|------------|------------|
|      |                     |                     |                         |               |                   | 무연탄        | 유연탄        |
| 1990 | 71,870              | 69,844              | -2,804                  | 8,209         | 1,288             | 52         | 1,217      |
| 1991 | 76,632              | 81,525              | -8,034                  | 9,921         | 1,600             | 66         | 1,514      |
| 1992 | 82,236              | 81,775              | -2,901                  | 14,281        | 1,616             | 42         | 1,553      |
| 1993 | 96,013              | 83,800              | 1,688                   | 14,969        | 1,732             | 40         | 1,669      |
| 1994 | 125,058             | 102,348             | -4,794                  | 15,228        | 1,777             | 33         | 1,718      |
| 1995 | 125,058             | 135,119             | -10,230                 | 18,643        | 2,081             | 35         | 2,019      |
| 1996 | 129,715             | 150,339             | -24,461                 | 24,003        | 2,337             | 46         | 2,260      |
| 1997 | 136,164             | 144,616             | -10,812                 | 26,981        | 2,399             | 38         | 2,329      |
| 1998 | 132,313             | 93,282              | 40,113                  | 18,092        | 2,229             | 36         | 2,169      |
| 1999 | 143,685             | 119,752             | 21,785                  | 22,543        | 1,966             | 46         | 1,895      |
| 2000 | 172,268             | 160,481             | 10,181                  | 37,622        | 2,186             | 72         | 2,084      |
| 2001 | 150,439             | 141,098             | 2,165                   | 33,652        | 2,347             | 118        | 2,200      |
| 2002 | 162,471             | 152,126             | 4,066                   | 31,997        | 2,475             | 148        | 2,294      |
| 2003 | 193,817             | 178,827             | 11,308                  | 37,982        | 2,552             | 177        | 2,314      |
| 2004 | 253,845             | 224,463             | 29,290                  | 49,075        | 4,438             | 233        | 3,986      |
| 2005 | 284,419             | 261,238             | 12,209                  | 66,238        | 5,443             | 429        | 4,918      |
| 2006 | 325,465             | 309,383             | 2,095                   | 84,905        | 5,318             | 407        | 4,844      |
| 2007 | 371,489             | 356,846             | 10,473                  | 94,306        | 6,445             | 447        | 5,830      |
| 2008 | 422,007             | 435,275             | 1,753                   | 139,288       | 12,800            | 991        | 11,369     |
| 2009 | 363,534             | 323,085             | 33,088                  | 90,259        | 9,995             | 672        | 9,215      |
| 2010 | 466,384             | 425,212             | 27,951                  | 120,478       | 13,131            | 1,016      | 11,837     |
| 2011 | 555,214             | 524,413             | 16,638                  | 170,497       | 18,477            | 1,774      | 16,488     |
| 2012 | 547,870             | 519,584             | 48,791                  | 182,252       | 16,069            | 1,361      | 14,529     |
| 2013 | 559,632             | 515,586             | 77,259                  | 176,561       | 13,074            | 1,143      | 11,798     |
| 2014 | 572,665             | 525,515             | 83,030                  | 170,117       | 12,114            | 921        | 11,066     |
| 2015 | 526,757             | 436,499             | 105,119                 | 100,440       | 9,961             | 813        | 9,047      |
| 2016 | 495,426             | 406,193             | 97,924                  | 79,953        | 9,310             | 759        | 8,467      |
| 2017 | 573,694             | 478,478             | 75,231                  | 107,921       | 15,179            | 933        | 14,128     |
| 2018 | 604,860             | 535,202             | 77,467                  | 143,285       | 16,703            | 1,199      | 15,353     |
| 2019 | 542,233             | 503,343             | 59,676                  | 124,777       | 14,209            | 927        | 13,164     |
| 2020 | 512,498             | 467,633             | 75,902                  | 85,444        | 9,596             | 611        | 8,892      |
| 2021 | 644,400             | 615,093             | 85,228                  | 135,935       | 14,699            | 889        | 13,645     |
| 2022 | 683,585             | 731,370             | 25,829                  | 216,409       | 28,332            | 1,661      | 26,493     |
| 2023 | 632,226             | 642,572             | 32,822                  | 171,437       | 20,178            | 1,005      | 19,067     |
|      | Export <sup>1</sup> | Import <sup>1</sup> | Current Account Balance | Energy Import | Coal <sup>2</sup> | Anthracite | Bituminous |

1. 통관기준

2. 코크스탄, 연료탄, 기타석탄 포함.

자료: 통계청, 한국무역협회, 한국석유공사

## 4-2. Exports, Imports and Current Account

Unit: Million USD

| 석유        |           |          | 천연가스   | 우라늄     | 석유제품<br>수출액                         |      |
|-----------|-----------|----------|--------|---------|-------------------------------------|------|
|           | 원유        | 제품       |        |         |                                     |      |
| 6,462     | 6,462     | -        | 460    | -       | -                                   | 1990 |
| 7,835     | 7,835     | -        | 485    | 0       | -                                   | 1991 |
| 12,104    | 9,522     | 2,582    | 562    | -       | 1,707                               | 1992 |
| 12,421    | 9,432     | 2,989    | 781    | 35      | 1,787                               | 1993 |
| 12,385    | 9,233     | 3,152    | 961    | 105     | 1,596                               | 1994 |
| 15,265    | 11,266    | 3,999    | 1,275  | 22      | 2,313                               | 1995 |
| 19,787    | 14,924    | 4,863    | 1,878  | 0       | 3,728                               | 1996 |
| 22,204    | 17,879    | 4,325    | 2,296  | 82      | 5,232                               | 1997 |
| 14,163    | 11,302    | 2,860    | 1,549  | 152     | 4,448                               | 1998 |
| 18,435    | 14,943    | 3,492    | 1,973  | 170     | 5,657                               | 1999 |
| 31,416    | 25,414    | 6,001    | 3,882  | 138     | 9,381                               | 2000 |
| 27,097    | 21,620    | 5,477    | 3,990  | 218     | 7,783                               | 2001 |
| 25,140    | 19,449    | 5,690    | 4,120  | 262     | 6,454                               | 2002 |
| 30,104    | 23,394    | 6,710    | 5,082  | 243     | 6,653                               | 2003 |
| 37,770    | 30,100    | 7,670    | 6,552  | 315     | 10,173                              | 2004 |
| 51,883    | 43,088    | 8,796    | 8,646  | 265     | 15,364                              | 2005 |
| 67,352    | 56,065    | 11,287   | 11,925 | 311     | 20,602                              | 2006 |
| 74,762    | 60,609    | 14,152   | 12,653 | 446     | 23,481                              | 2007 |
| 106,015   | 85,184    | 20,831   | 19,806 | 667     | 37,177                              | 2008 |
| 65,706    | 50,880    | 14,826   | 13,875 | 684     | 22,720                              | 2009 |
| 89,777    | 68,897    | 20,880   | 17,006 | 564     | 30,194                              | 2010 |
| 127,413   | 100,335   | 27,078   | 23,859 | 748     | 49,584                              | 2011 |
| 138,183   | 107,070   | 31,113   | 27,364 | 635     | 54,039                              | 2012 |
| 131,866   | 99,490    | 32,376   | 30,645 | 976     | 50,742                              | 2013 |
| 125,912   | 94,512    | 31,401   | 31,403 | 688     | 49,091                              | 2014 |
| 70,883    | 54,916    | 15,967   | 18,779 | 817     | 30,201                              | 2015 |
| 57,937    | 44,540    | 13,397   | 12,170 | 536     | 24,806                              | 2016 |
| 76,185    | 60,075    | 16,110   | 15,616 | 941     | 32,654                              | 2017 |
| 102,856   | 80,521    | 22,335   | 23,189 | 538     | 43,346                              | 2018 |
| 89,295    | 70,430    | 18,865   | 20,567 | 707     | 38,267                              | 2019 |
| 59,406    | 44,791    | 14,615   | 15,716 | 725     | 22,922                              | 2020 |
| 95,039    | 68,771    | 26,268   | 25,453 | 744     | 36,088                              | 2021 |
| 137,603   | 107,255   | 30,348   | 50,022 | 451     | 61,158                              | 2022 |
| 114,109   | 87,734    | 26,375   | 36,049 | 1,101   | 50,238                              | 2023 |
| Petroleum | Crude Oil | Products | LNG    | Uranium | Exports of<br>Petroleum<br>Products |      |
|           |           |          |        |         |                                     |      |

1. Based on customs clearance

2. Includes brown coal, peat and others.

Sources: Statistics Korea, Korea International Trade Association, Korea National Oil Corporation

## 4-3. 경제활동별 국내총생산(2020년 기준 연쇄가격)

단위: 십억원

|      | 농림어업                             | 광업                    | 제조업               | 음식료품<br>제조업                    | 섬유 및 가죽<br>제품제조업                   | 목재, 종이,<br>인쇄 및<br>복제업                                                        | 코크스 및<br>석유정제품<br>제조업                        | 화학물질 및<br>화학제품<br>제조업                    |
|------|----------------------------------|-----------------------|-------------------|--------------------------------|------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------|
| 1990 | 24,083                           | 3,851                 | 93,025            | 12,020                         | 19,502                             | 7,528                                                                         | 3,770                                        | 17,073                                   |
| 1991 | 24,852                           | 3,924                 | 106,445           | 13,231                         | 19,015                             | 8,192                                                                         | 12,726                                       | 17,602                                   |
| 1992 | 27,086                           | 3,465                 | 113,154           | 13,498                         | 18,321                             | 8,657                                                                         | 14,620                                       | 20,066                                   |
| 1993 | 25,941                           | 3,452                 | 121,346           | 14,005                         | 16,611                             | 8,720                                                                         | 18,213                                       | 21,420                                   |
| 1994 | 25,969                           | 3,802                 | 135,791           | 14,876                         | 16,743                             | 9,904                                                                         | 12,860                                       | 25,831                                   |
| 1995 | 27,746                           | 3,740                 | 153,983           | 15,173                         | 16,037                             | 10,328                                                                        | 13,513                                       | 29,414                                   |
| 1996 | 28,824                           | 3,725                 | 167,589           | 16,029                         | 16,085                             | 10,347                                                                        | 16,901                                       | 31,282                                   |
| 1997 | 30,065                           | 3,674                 | 177,930           | 16,281                         | 16,503                             | 10,852                                                                        | 31,177                                       | 32,570                                   |
| 1998 | 27,787                           | 2,987                 | 164,906           | 15,163                         | 14,422                             | 9,260                                                                         | 28,822                                       | 32,467                                   |
| 1999 | 29,223                           | 3,190                 | 197,154           | 15,592                         | 17,764                             | 10,946                                                                        | 25,986                                       | 37,693                                   |
| 2000 | 29,266                           | 3,179                 | 228,534           | 16,799                         | 18,771                             | 11,161                                                                        | 24,386                                       | 40,508                                   |
| 2001 | 29,374                           | 3,220                 | 235,202           | 16,812                         | 18,764                             | 10,790                                                                        | 23,884                                       | 43,713                                   |
| 2002 | 28,458                           | 3,206                 | 256,940           | 17,718                         | 19,852                             | 11,865                                                                        | 22,062                                       | 48,469                                   |
| 2003 | 26,710                           | 3,287                 | 269,225           | 17,468                         | 18,143                             | 11,748                                                                        | 22,653                                       | 48,633                                   |
| 2004 | 28,782                           | 3,197                 | 296,519           | 17,862                         | 17,295                             | 11,444                                                                        | 25,725                                       | 53,632                                   |
| 2005 | 28,958                           | 3,129                 | 311,370           | 17,824                         | 17,476                             | 11,525                                                                        | 24,314                                       | 54,811                                   |
| 2006 | 29,652                           | 3,095                 | 335,393           | 18,053                         | 18,265                             | 11,947                                                                        | 24,169                                       | 57,651                                   |
| 2007 | 31,172                           | 2,880                 | 361,881           | 18,414                         | 18,842                             | 12,073                                                                        | 21,686                                       | 61,696                                   |
| 2008 | 33,227                           | 2,877                 | 373,881           | 18,874                         | 19,545                             | 12,461                                                                        | 21,651                                       | 62,835                                   |
| 2009 | 34,759                           | 2,811                 | 367,654           | 18,437                         | 18,405                             | 13,040                                                                        | 18,205                                       | 65,183                                   |
| 2010 | 33,496                           | 2,530                 | 419,224           | 18,623                         | 20,616                             | 13,645                                                                        | 18,034                                       | 73,477                                   |
| 2011 | 33,149                           | 2,209                 | 440,819           | 18,484                         | 20,825                             | 13,772                                                                        | 18,747                                       | 75,416                                   |
| 2012 | 32,985                           | 2,128                 | 448,531           | 20,074                         | 22,173                             | 13,742                                                                        | 16,605                                       | 75,297                                   |
| 2013 | 34,374                           | 2,222                 | 464,239           | 21,971                         | 22,986                             | 13,711                                                                        | 15,930                                       | 78,470                                   |
| 2014 | 36,128                           | 2,229                 | 479,769           | 22,713                         | 23,351                             | 14,205                                                                        | 16,137                                       | 79,656                                   |
| 2015 | 36,036                           | 2,025                 | 488,241           | 23,139                         | 21,683                             | 14,210                                                                        | 16,051                                       | 82,686                                   |
| 2016 | 33,666                           | 2,167                 | 498,369           | 23,334                         | 19,597                             | 15,160                                                                        | 16,191                                       | 84,723                                   |
| 2017 | 34,087                           | 2,069                 | 519,574           | 24,369                         | 19,911                             | 14,369                                                                        | 15,806                                       | 87,699                                   |
| 2018 | 33,823                           | 1,909                 | 537,181           | 25,174                         | 18,966                             | 14,550                                                                        | 14,135                                       | 89,285                                   |
| 2019 | 34,809                           | 1,795                 | 539,843           | 26,389                         | 17,681                             | 14,353                                                                        | 11,162                                       | 88,822                                   |
| 2020 | 32,482                           | 1,737                 | 529,031           | 27,177                         | 17,193                             | 14,214                                                                        | 2,773                                        | 89,202                                   |
| 2021 | 33,599                           | 1,975                 | 563,295           | 28,567                         | 16,743                             | 14,383                                                                        | 8,175                                        | 91,237                                   |
| 2022 | 33,866                           | 1,785                 | 577,228           | 31,959                         | 16,834                             | 14,359                                                                        | 9,018                                        | 92,238                                   |
| 2023 | 32,973                           | 1,809                 | 587,009           | 31,471                         | 16,221                             | 13,640                                                                        | 9,022                                        | 92,388                                   |
|      | Agriculture,<br>Forestry&Fishing | Mining &<br>Quarrying | Manu<br>facturing | Food,<br>Beverages<br>Products | Textile and<br>Leather<br>Products | Wood and Paper<br>Products, Printing<br>and Reproduction<br>of Recorded Media | Coke and<br>Refined<br>Petroleum<br>Products | Chemicals<br>and<br>Chemical<br>Products |

자료: 한국은행

### 4-3. Gross Domestic Product by Economic Activity(At Chained 2020 Prices)

Unit: Billion KRW

| 비금속광물<br>제품제조업                      | 1차금속<br>제조업     | 금속가공<br>제품제조업                   | 컴퓨터, 전자<br>및 광학기기<br>제조업                           | 전기장비<br>제조업             | 기계 및<br>장비제조업                 | 운송장비<br>제조업                 | 기타제조업 및<br>산업용<br>장비수리업                                                          |      |
|-------------------------------------|-----------------|---------------------------------|----------------------------------------------------|-------------------------|-------------------------------|-----------------------------|----------------------------------------------------------------------------------|------|
| 5,420                               | 12,248          | 7,134                           | 4,654                                              | 3,500                   | 6,015                         | 11,803                      | 5,907                                                                            | 1990 |
| 5,975                               | 13,097          | 8,680                           | 4,991                                              | 3,695                   | 7,335                         | 13,726                      | 6,200                                                                            | 1991 |
| 6,506                               | 14,242          | 7,448                           | 5,368                                              | 3,974                   | 7,433                         | 15,883                      | 5,899                                                                            | 1992 |
| 6,576                               | 14,561          | 9,892                           | 6,138                                              | 4,524                   | 8,170                         | 18,022                      | 5,958                                                                            | 1993 |
| 6,874                               | 15,310          | 11,401                          | 7,492                                              | 5,458                   | 10,344                        | 21,638                      | 5,995                                                                            | 1994 |
| 6,437                               | 17,600          | 13,330                          | 9,839                                              | 6,391                   | 13,899                        | 24,029                      | 5,943                                                                            | 1995 |
| 7,216                               | 18,193          | 15,453                          | 10,547                                             | 7,584                   | 16,073                        | 27,903                      | 6,092                                                                            | 1996 |
| 7,095                               | 18,445          | 16,323                          | 10,895                                             | 8,287                   | 16,419                        | 29,625                      | 6,105                                                                            | 1997 |
| 5,522                               | 16,715          | 14,330                          | 13,803                                             | 7,668                   | 10,686                        | 21,988                      | 5,187                                                                            | 1998 |
| 6,764                               | 18,595          | 15,983                          | 17,666                                             | 10,356                  | 14,063                        | 29,001                      | 6,016                                                                            | 1999 |
| 7,619                               | 20,193          | 18,827                          | 23,585                                             | 13,460                  | 17,591                        | 33,874                      | 6,786                                                                            | 2000 |
| 8,071                               | 21,282          | 19,020                          | 25,203                                             | 13,555                  | 17,196                        | 34,355                      | 6,300                                                                            | 2001 |
| 8,245                               | 23,130          | 20,289                          | 28,772                                             | 15,018                  | 19,754                        | 37,310                      | 6,509                                                                            | 2002 |
| 8,712                               | 22,950          | 22,816                          | 32,587                                             | 16,073                  | 21,693                        | 38,910                      | 6,651                                                                            | 2003 |
| 8,856                               | 25,316          | 25,606                          | 39,468                                             | 17,099                  | 23,935                        | 42,651                      | 6,301                                                                            | 2004 |
| 8,814                               | 25,314          | 28,555                          | 43,605                                             | 18,297                  | 25,605                        | 46,062                      | 6,635                                                                            | 2005 |
| 9,085                               | 24,447          | 29,842                          | 50,382                                             | 19,529                  | 28,179                        | 52,988                      | 7,241                                                                            | 2006 |
| 9,473                               | 25,466          | 32,403                          | 57,823                                             | 20,819                  | 30,922                        | 58,813                      | 8,008                                                                            | 2007 |
| 9,844                               | 23,432          | 29,535                          | 62,337                                             | 21,184                  | 33,162                        | 64,790                      | 8,436                                                                            | 2008 |
| 9,949                               | 23,388          | 26,842                          | 66,200                                             | 22,200                  | 30,725                        | 55,786                      | 8,332                                                                            | 2009 |
| 10,712                              | 27,305          | 30,144                          | 78,670                                             | 26,467                  | 37,282                        | 63,217                      | 8,841                                                                            | 2010 |
| 10,720                              | 28,321          | 31,270                          | 85,696                                             | 26,709                  | 39,650                        | 69,132                      | 9,413                                                                            | 2011 |
| 10,402                              | 27,361          | 33,807                          | 89,417                                             | 27,483                  | 41,040                        | 68,491                      | 10,141                                                                           | 2012 |
| 11,007                              | 28,059          | 33,268                          | 95,242                                             | 28,631                  | 42,068                        | 69,328                      | 10,765                                                                           | 2013 |
| 10,978                              | 29,793          | 35,510                          | 100,145                                            | 29,561                  | 42,998                        | 69,398                      | 12,072                                                                           | 2014 |
| 11,583                              | 29,915          | 38,373                          | 103,763                                            | 28,383                  | 43,174                        | 68,447                      | 13,009                                                                           | 2015 |
| 12,185                              | 29,914          | 38,399                          | 113,271                                            | 26,722                  | 41,718                        | 69,150                      | 12,589                                                                           | 2016 |
| 13,524                              | 30,533          | 38,522                          | 121,003                                            | 29,782                  | 49,983                        | 64,497                      | 13,820                                                                           | 2017 |
| 13,530                              | 29,564          | 38,039                          | 135,656                                            | 31,571                  | 50,027                        | 63,936                      | 14,291                                                                           | 2018 |
| 12,786                              | 29,956          | 37,716                          | 142,236                                            | 31,970                  | 49,502                        | 64,434                      | 12,898                                                                           | 2019 |
| 12,318                              | 29,103          | 35,445                          | 150,008                                            | 31,875                  | 49,295                        | 57,779                      | 12,651                                                                           | 2020 |
| 12,335                              | 27,581          | 30,688                          | 169,273                                            | 35,120                  | 55,209                        | 61,377                      | 12,606                                                                           | 2021 |
| 11,819                              | 22,710          | 26,841                          | 180,095                                            | 36,964                  | 58,725                        | 68,142                      | 12,187                                                                           | 2022 |
| 11,012                              | 22,845          | 26,710                          | 189,702                                            | 36,990                  | 56,374                        | 75,250                      | 11,533                                                                           | 2023 |
| Non-Metallic<br>Mineral<br>Products | Basic<br>Metals | Fabricated<br>Metal<br>Products | Computer,<br>Electronic and<br>Optical<br>Products | Electrical<br>Equipment | Machinery<br>and<br>Equipment | Transportation<br>Equipment | Other Manufacturing,<br>Repair and Installation<br>of Machinery and<br>Equipment |      |

Source: Bank of Korea

## 4-3. 경제활동별 국내 총생산(2020년 기준 연쇄가격, 계속)

단위: 십억원

|      | 전기, 가스,<br>수도사업                          | 건설업          | 서비스업      |                                                                      |                               |                          |                |
|------|------------------------------------------|--------------|-----------|----------------------------------------------------------------------|-------------------------------|--------------------------|----------------|
|      |                                          |              |           | 도소매 및<br>숙박음식업                                                       | 운수업                           | 금융 및<br>보험업              | 부동산업           |
| 1990 | 7,861                                    | 69,256       | 265,754   | 70,328                                                               | 17,312                        | 16,290                   | 37,184         |
| 1991 | 8,730                                    | 77,289       | 293,738   | 76,702                                                               | 18,751                        | 18,932                   | 41,387         |
| 1992 | 9,845                                    | 76,003       | 317,346   | 80,751                                                               | 20,014                        | 21,390                   | 45,460         |
| 1993 | 11,105                                   | 82,761       | 343,890   | 86,169                                                               | 20,567                        | 25,141                   | 49,895         |
| 1994 | 12,590                                   | 86,571       | 376,248   | 93,071                                                               | 22,211                        | 28,025                   | 54,794         |
| 1995 | 13,488                                   | 91,158       | 410,290   | 99,847                                                               | 24,328                        | 31,874                   | 60,062         |
| 1996 | 14,970                                   | 97,045       | 443,386   | 106,389                                                              | 26,312                        | 33,685                   | 65,997         |
| 1997 | 16,412                                   | 97,921       | 476,377   | 110,389                                                              | 28,945                        | 34,792                   | 73,881         |
| 1998 | 16,576                                   | 86,709       | 467,021   | 100,899                                                              | 27,445                        | 33,169                   | 80,412         |
| 1999 | 18,366                                   | 80,225       | 513,657   | 117,692                                                              | 32,051                        | 35,847                   | 84,371         |
| 2000 | 20,431                                   | 76,445       | 554,190   | 127,392                                                              | 35,762                        | 35,267                   | 92,042         |
| 2001 | 21,677                                   | 80,596       | 585,737   | 134,101                                                              | 37,643                        | 38,253                   | 94,546         |
| 2002 | 23,529                                   | 83,641       | 635,774   | 141,938                                                              | 39,190                        | 47,364                   | 97,513         |
| 2003 | 24,543                                   | 91,105       | 651,045   | 138,354                                                              | 39,934                        | 47,169                   | 100,817        |
| 2004 | 26,252                                   | 92,890       | 672,212   | 138,713                                                              | 42,242                        | 47,102                   | 104,935        |
| 2005 | 28,195                                   | 93,000       | 703,075   | 141,427                                                              | 43,951                        | 50,239                   | 110,054        |
| 2006 | 29,134                                   | 93,852       | 737,213   | 146,941                                                              | 46,070                        | 52,567                   | 114,648        |
| 2007 | 30,340                                   | 96,250       | 780,807   | 155,238                                                              | 49,401                        | 59,164                   | 117,486        |
| 2008 | 31,845                                   | 93,132       | 810,694   | 158,341                                                              | 52,250                        | 62,884                   | 121,836        |
| 2009 | 33,635                                   | 94,542       | 824,841   | 158,213                                                              | 50,205                        | 66,531                   | 123,018        |
| 2010 | 35,171                                   | 91,098       | 866,598   | 169,052                                                              | 57,341                        | 68,609                   | 123,826        |
| 2011 | 35,655                                   | 86,752       | 899,788   | 176,932                                                              | 60,348                        | 70,259                   | 127,563        |
| 2012 | 36,612                                   | 86,422       | 930,436   | 183,975                                                              | 64,083                        | 73,757                   | 128,315        |
| 2013 | 36,149                                   | 90,260       | 963,220   | 190,956                                                              | 65,562                        | 76,791                   | 128,856        |
| 2014 | 37,427                                   | 91,965       | 992,236   | 193,601                                                              | 67,136                        | 81,354                   | 133,279        |
| 2015 | 39,952                                   | 97,544       | 1,023,286 | 199,431                                                              | 68,980                        | 87,195                   | 136,409        |
| 2016 | 39,796                                   | 107,973      | 1,058,132 | 205,088                                                              | 69,837                        | 88,583                   | 142,831        |
| 2017 | 42,052                                   | 115,098      | 1,088,066 | 209,812                                                              | 72,166                        | 92,106                   | 147,477        |
| 2018 | 41,538                                   | 112,698      | 1,133,653 | 215,947                                                              | 75,569                        | 97,218                   | 152,403        |
| 2019 | 43,129                                   | 110,744      | 1,176,690 | 224,177                                                              | 77,008                        | 100,168                  | 155,442        |
| 2020 | 45,605                                   | 110,255      | 1,171,666 | 214,871                                                              | 66,604                        | 110,016                  | 161,030        |
| 2021 | 46,403                                   | 109,318      | 1,222,603 | 219,693                                                              | 73,635                        | 117,412                  | 163,741        |
| 2022 | 48,020                                   | 110,255      | 1,269,071 | 231,974                                                              | 82,748                        | 120,646                  | 160,448        |
| 2023 | 46,649                                   | 113,618      | 1,295,453 | 228,939                                                              | 92,819                        | 121,705                  | 160,759        |
|      | Electricity,<br>Gas<br>& Water<br>Supply | Construction | Services  | Wholesale and<br>Retail Trade,<br>Accommodation<br>and Food Services | Transportation<br>and Storage | Finance and<br>Insurance | Real<br>Estate |

자료: 한국은행





### 4-3. Gross Domestic Product by Economic Activity(At Chained 2020 Prices, Continued)

Unit: Billion KRW

| 정보<br>통신업                           | 사업<br>서비스업             | 공공행정,<br>국방 및<br>사회보장                                       | 교육<br>서비스업 | 의료, 보건업 및<br>사회복지<br>서비스업          | 문화 및<br>기타<br>서비스업                | 총부가가치<br>(기초가격)                            | 국내총생산<br>(시장가격)            |      |
|-------------------------------------|------------------------|-------------------------------------------------------------|------------|------------------------------------|-----------------------------------|--------------------------------------------|----------------------------|------|
| 5,185                               | 27,563                 | 40,713                                                      | 39,012     | 17,603                             | 14,394                            | 447,545                                    | 495,738                    | 1990 |
| 6,152                               | 32,003                 | 43,677                                                      | 40,691     | 19,486                             | 16,014                            | 497,101                                    | 549,650                    | 1991 |
| 7,025                               | 35,622                 | 46,759                                                      | 42,510     | 21,058                             | 17,421                            | 530,136                                    | 584,561                    | 1992 |
| 7,992                               | 38,950                 | 49,924                                                      | 44,224     | 22,657                             | 19,013                            | 568,757                                    | 625,450                    | 1993 |
| 9,666                               | 43,602                 | 52,598                                                      | 46,209     | 25,058                             | 21,623                            | 620,826                                    | 684,066                    | 1994 |
| 11,377                              | 48,595                 | 54,797                                                      | 48,134     | 27,149                             | 24,098                            | 681,183                                    | 750,666                    | 1995 |
| 13,781                              | 53,332                 | 58,449                                                      | 49,877     | 28,368                             | 26,537                            | 735,304                                    | 810,647                    | 1996 |
| 15,962                              | 59,246                 | 61,973                                                      | 51,432     | 30,632                             | 28,741                            | 782,149                                    | 861,573                    | 1997 |
| 16,797                              | 54,385                 | 64,369                                                      | 51,114     | 29,543                             | 26,925                            | 746,767                                    | 819,021                    | 1998 |
| 21,015                              | 55,675                 | 67,931                                                      | 52,770     | 31,265                             | 30,085                            | 830,274                                    | 914,169                    | 1999 |
| 27,428                              | 60,922                 | 68,903                                                      | 54,389     | 31,264                             | 32,903                            | 905,712                                    | 998,289                    | 2000 |
| 32,815                              | 63,535                 | 70,335                                                      | 57,436     | 30,088                             | 35,778                            | 947,783                                    | 1,045,468                  | 2001 |
| 38,384                              | 70,376                 | 72,634                                                      | 61,033     | 32,271                             | 39,927                            | 1,023,567                                  | 1,126,429                  | 2002 |
| 40,947                              | 76,391                 | 75,211                                                      | 64,434     | 34,443                             | 39,547                            | 1,056,314                                  | 1,161,063                  | 2003 |
| 44,763                              | 79,786                 | 78,056                                                      | 66,791     | 36,725                             | 39,265                            | 1,111,882                                  | 1,221,249                  | 2004 |
| 49,133                              | 83,432                 | 81,403                                                      | 68,777     | 39,357                             | 40,703                            | 1,160,377                                  | 1,274,473                  | 2005 |
| 51,616                              | 89,024                 | 84,818                                                      | 72,215     | 41,970                             | 43,321                            | 1,222,059                                  | 1,341,320                  | 2006 |
| 53,454                              | 96,246                 | 87,552                                                      | 74,783     | 45,797                             | 46,287                            | 1,297,657                                  | 1,419,679                  | 2007 |
| 55,484                              | 101,188                | 89,822                                                      | 77,556     | 47,690                             | 47,651                            | 1,341,155                                  | 1,462,332                  | 2008 |
| 57,398                              | 101,712                | 93,532                                                      | 78,420     | 51,542                             | 47,997                            | 1,352,853                                  | 1,474,321                  | 2009 |
| 59,489                              | 109,257                | 96,576                                                      | 79,866     | 55,163                             | 50,578                            | 1,446,671                                  | 1,577,253                  | 2010 |
| 62,559                              | 113,717                | 99,460                                                      | 82,041     | 59,046                             | 50,657                            | 1,499,369                                  | 1,635,423                  | 2011 |
| 64,846                              | 116,234                | 103,021                                                     | 83,657     | 63,430                             | 50,910                            | 1,538,318                                  | 1,677,088                  | 2012 |
| 68,188                              | 124,016                | 105,567                                                     | 85,700     | 67,563                             | 51,311                            | 1,591,989                                  | 1,732,287                  | 2013 |
| 69,212                              | 130,492                | 108,619                                                     | 86,198     | 72,567                             | 51,038                            | 1,641,589                                  | 1,787,975                  | 2014 |
| 70,109                              | 137,233                | 111,737                                                     | 86,636     | 76,074                             | 50,425                            | 1,688,389                                  | 1,840,189                  | 2015 |
| 74,395                              | 142,040                | 114,483                                                     | 87,579     | 81,842                             | 52,496                            | 1,740,196                                  | 1,898,551                  | 2016 |
| 77,209                              | 144,385                | 117,515                                                     | 88,424     | 87,351                             | 52,463                            | 1,801,131                                  | 1,963,732                  | 2017 |
| 81,243                              | 150,911                | 121,395                                                     | 90,659     | 94,719                             | 54,447                            | 1,861,421                                  | 2,026,102                  | 2018 |
| 85,576                              | 156,316                | 126,186                                                     | 91,936     | 104,356                            | 56,332                            | 1,907,158                                  | 2,072,982                  | 2019 |
| 89,215                              | 156,653                | 129,851                                                     | 90,436     | 106,035                            | 46,955                            | 1,890,776                                  | 2,058,467                  | 2020 |
| 97,514                              | 159,604                | 134,868                                                     | 95,484     | 112,371                            | 48,283                            | 1,977,193                                  | 2,153,423                  | 2021 |
| 99,787                              | 163,453                | 139,003                                                     | 98,708     | 119,255                            | 52,244                            | 2,040,141                                  | 2,212,159                  | 2022 |
| 100,881                             | 166,386                | 142,043                                                     | 99,516     | 124,697                            | 56,120                            | 2,079,116                                  | 2,243,220                  | 2023 |
| Information<br>and<br>Communication | Business<br>Activities | Public<br>Administration,<br>Defence and<br>Social Security | Education  | Human<br>Health and<br>Social Work | Cultural and<br>Other<br>Services | Gross Value<br>Added<br>at Basic<br>Prices | GDP<br>at Market<br>Prices |      |

Source: Bank of Korea

## 4-4. 산업생산지수

2020=100

|      | 총지수         | 광업                   | 석탄, 원유 및 천연가스 광업                | 금속 광업      | 비금속광물 광업·연료용 제외                    | 제조업           | 식품    | 음료        |
|------|-------------|----------------------|---------------------------------|------------|------------------------------------|---------------|-------|-----------|
| 1990 | 19.8        | 248.7                | 2,111.1                         | 132.1      | 134.3                              | 19.6          | 63.8  | 43.1      |
| 1991 | 21.7        | 256.2                | 1,824.3                         | 125.2      | 158.0                              | 21.5          | 67.9  | 50.9      |
| 1992 | 23.0        | 224.4                | 1,474.9                         | 126.4      | 144.1                              | 22.8          | 67.7  | 56.9      |
| 1993 | 24.1        | 213.8                | 1,171.8                         | 91.5       | 151.7                              | 23.8          | 67.6  | 61.3      |
| 1994 | 26.7        | 216.6                | 945.4                           | 57.3       | 168.9                              | 26.4          | 71.2  | 72.4      |
| 1995 | 29.9        | 205.7                | 742.8                           | 57.2       | 168.7                              | 29.6          | 72.9  | 68.5      |
| 1996 | 32.5        | 204.7                | 659.4                           | 71.5       | 168.1                              | 32.1          | 76.2  | 72.5      |
| 1997 | 34.1        | 198.0                | 605.7                           | 75.9       | 162.6                              | 33.5          | 74.6  | 73.9      |
| 1998 | 31.9        | 153.2                | 577.1                           | 58.4       | 123.8                              | 31.4          | 68.2  | 64.9      |
| 1999 | 39.7        | 166.2                | 548.1                           | 49.3       | 137.0                              | 39.3          | 72.9  | 76.3      |
| 2000 | 46.4        | 163.6                | 549.9                           | 40.4       | 135.4                              | 46.1          | 75.2  | 78.0      |
| 2001 | 46.7        | 163.4                | 505.2                           | 23.5       | 138.0                              | 46.2          | 78.6  | 85.2      |
| 2002 | 50.4        | 170.2                | 441.4                           | 39.0       | 145.1                              | 49.9          | 81.2  | 86.3      |
| 2003 | 53.2        | 168.7                | 438.9                           | 34.1       | 144.2                              | 52.7          | 79.8  | 84.6      |
| 2004 | 58.8        | 162.9                | 430.3                           | 44.8       | 137.9                              | 58.3          | 81.5  | 86.1      |
| 2005 | 62.5        | 150.1                | 377.8                           | 43.3       | 127.6                              | 62.0          | 81.3  | 84.9      |
| 2006 | 67.7        | 143.9                | 352.7                           | 49.0       | 122.9                              | 67.4          | 82.7  | 84.4      |
| 2007 | 72.4        | 137.4                | 310.1                           | 74.0       | 118.6                              | 72.2          | 82.8  | 86.4      |
| 2008 | 74.8        | 123.6                | 248.4                           | 67.0       | 110.0                              | 74.6          | 80.8  | 89.0      |
| 2009 | 74.8        | 132.0                | 336.8                           | 52.9       | 110.8                              | 74.4          | 80.5  | 84.3      |
| 2010 | 86.9        | 122.5                | 329.9                           | 95.9       | 98.4                               | 86.9          | 85.3  | 88.7      |
| 2011 | 92.1        | 128.0                | 302.2                           | 119.8      | 106.7                              | 92.1          | 87.0  | 91.8      |
| 2012 | 93.4        | 122.2                | 297.5                           | 104.0      | 101.3                              | 93.4          | 88.3  | 95.9      |
| 2013 | 94.0        | 127.2                | 284.4                           | 94.3       | 108.6                              | 94.0          | 88.5  | 96.5      |
| 2014 | 94.2        | 117.1                | 234.6                           | 95.8       | 102.6                              | 94.2          | 89.5  | 97.6      |
| 2015 | 94.0        | 118.9                | 194.9                           | 75.6       | 109.6                              | 94.0          | 91.1  | 100.4     |
| 2016 | 96.0        | 122.9                | 188.7                           | 71.9       | 115.3                              | 96.1          | 93.5  | 104.1     |
| 2017 | 98.5        | 119.2                | 168.5                           | 63.6       | 113.8                              | 98.4          | 93.7  | 106.1     |
| 2018 | 99.9        | 106.4                | 143.1                           | 79.3       | 102.2                              | 99.7          | 94.8  | 105.8     |
| 2019 | 100.3       | 101.5                | 122.1                           | 74.2       | 99.6                               | 100.2         | 98.4  | 104.2     |
| 2020 | 100.0       | 100.0                | 100.0                           | 100.0      | 100.0                              | 100.0         | 100.0 | 100.0     |
| 2021 | 108.5       | 101.0                | 88.2                            | 86.8       | 102.5                              | 108.8         | 100.2 | 99.8      |
| 2022 | 109.6       | 93.2                 | 80.5                            | 77.7       | 94.8                               | 109.8         | 102.3 | 107.0     |
| 2023 | 106.8       | 94.2                 | 63.4                            | 82.1       | 96.1                               | 106.9         | 97.4  | 103.9     |
|      | Total Index | Mining and Quarrying | Coal, Crude Oil and Natural Gas | Metal Ores | Non-Metallic Minerals, Except Fuel | Manufacturing | Food  | Beverages |

자료: 통계청



## 4-4. Industrial Production Index

2020=100

| 담배      | 섬유제품     | 의복, 의복액세서리<br>및 모피제품                                         | 가죽, 가방<br>및 신발                      | 목재 및<br>나무제품                                | 펄프, 종이 및<br>종이제품                     | 인쇄 및<br>기록매체 복제                                   |      |
|---------|----------|--------------------------------------------------------------|-------------------------------------|---------------------------------------------|--------------------------------------|---------------------------------------------------|------|
| 56.6    | 354.6    | 276.9                                                        | 1,793.2                             | 194.1                                       | 53.1                                 | 105.5                                             | 1990 |
| 57.2    | 350.2    | 263.0                                                        | 1,668.7                             | 210.1                                       | 55.2                                 | 108.1                                             | 1991 |
| 59.2    | 339.4    | 239.7                                                        | 1,543.2                             | 200.0                                       | 58.7                                 | 126.0                                             | 1992 |
| 60.7    | 311.2    | 204.6                                                        | 1,178.7                             | 166.1                                       | 63.5                                 | 124.1                                             | 1993 |
| 57.7    | 309.6    | 213.1                                                        | 998.4                               | 171.3                                       | 71.0                                 | 140.9                                             | 1994 |
| 55.8    | 301.1    | 217.3                                                        | 849.3                               | 168.4                                       | 75.9                                 | 167.8                                             | 1995 |
| 60.0    | 286.7    | 210.8                                                        | 726.8                               | 169.3                                       | 80.0                                 | 166.1                                             | 1996 |
| 61.3    | 268.2    | 167.6                                                        | 615.3                               | 170.1                                       | 83.4                                 | 159.7                                             | 1997 |
| 64.0    | 244.3    | 121.9                                                        | 433.5                               | 106.4                                       | 73.4                                 | 131.6                                             | 1998 |
| 60.8    | 260.6    | 132.8                                                        | 436.6                               | 134.4                                       | 81.7                                 | 133.0                                             | 1999 |
| 62.3    | 257.5    | 152.3                                                        | 402.7                               | 139.0                                       | 84.8                                 | 133.3                                             | 2000 |
| 62.0    | 230.9    | 140.3                                                        | 380.3                               | 149.0                                       | 84.3                                 | 130.8                                             | 2001 |
| 62.2    | 217.6    | 146.2                                                        | 352.7                               | 156.8                                       | 89.3                                 | 131.7                                             | 2002 |
| 81.1    | 193.2    | 128.1                                                        | 304.2                               | 158.3                                       | 89.4                                 | 121.3                                             | 2003 |
| 87.7    | 177.0    | 128.2                                                        | 262.1                               | 151.7                                       | 92.2                                 | 118.8                                             | 2004 |
| 70.6    | 155.0    | 135.2                                                        | 236.6                               | 145.1                                       | 92.7                                 | 111.2                                             | 2005 |
| 79.0    | 155.3    | 148.1                                                        | 242.5                               | 159.1                                       | 94.7                                 | 113.4                                             | 2006 |
| 82.1    | 153.3    | 157.2                                                        | 237.9                               | 155.3                                       | 97.2                                 | 113.2                                             | 2007 |
| 85.3    | 141.0    | 165.0                                                        | 233.8                               | 144.6                                       | 95.7                                 | 124.5                                             | 2008 |
| 85.0    | 133.1    | 160.2                                                        | 206.1                               | 128.0                                       | 93.0                                 | 110.3                                             | 2009 |
| 82.1    | 149.3    | 168.3                                                        | 195.6                               | 126.6                                       | 99.2                                 | 126.1                                             | 2010 |
| 83.4    | 151.5    | 169.3                                                        | 197.8                               | 123.4                                       | 101.5                                | 115.7                                             | 2011 |
| 86.7    | 147.9    | 164.7                                                        | 192.2                               | 111.3                                       | 101.8                                | 114.1                                             | 2012 |
| 79.2    | 145.7    | 157.6                                                        | 218.2                               | 117.5                                       | 104.2                                | 109.4                                             | 2013 |
| 85.3    | 142.9    | 147.8                                                        | 215.2                               | 112.8                                       | 106.0                                | 109.1                                             | 2014 |
| 79.1    | 134.0    | 142.1                                                        | 203.2                               | 117.1                                       | 104.8                                | 106.3                                             | 2015 |
| 89.3    | 132.0    | 137.4                                                        | 188.0                               | 116.3                                       | 104.3                                | 107.6                                             | 2016 |
| 97.0    | 127.6    | 136.1                                                        | 166.7                               | 121.4                                       | 102.3                                | 108.4                                             | 2017 |
| 87.8    | 119.0    | 132.8                                                        | 168.3                               | 111.6                                       | 102.4                                | 106.7                                             | 2018 |
| 95.7    | 112.0    | 124.1                                                        | 145.4                               | 101.9                                       | 100.9                                | 101.3                                             | 2019 |
| 100.0   | 100.0    | 100.0                                                        | 100.0                               | 100.0                                       | 100.0                                | 100.0                                             | 2020 |
| 93.2    | 101.6    | 103.6                                                        | 101.6                               | 99.4                                        | 101.8                                | 101.7                                             | 2021 |
| 95.3    | 99.8     | 108.2                                                        | 102.0                               | 88.1                                        | 102.5                                | 98.2                                              | 2022 |
| 97.7    | 90.4     | 91.5                                                         | 83.7                                | 79.1                                        | 97.8                                 | 94.0                                              | 2023 |
| Tobacco | Textiles | Wearing Apparel,<br>Clothing Accessories<br>and Fur Articles | Leather,<br>Luggage and<br>Footwear | Wood and of<br>Products of<br>Wood and Cork | Pulp,<br>Paper and<br>Paper Products | Printing and<br>Reproduction of<br>Recorded Media |      |

Source: Statistics Korea

## 4-4. 산업생산지수(계속)

2020=100

|      | 제조업                                                      |                                       |                                                                         |                                   |                                     |                 |                                 |                                                                                           |
|------|----------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------|-----------------------------------|-------------------------------------|-----------------|---------------------------------|-------------------------------------------------------------------------------------------|
|      | 코크스,<br>연탄 및<br>석유정제품                                    | 화학물질 및<br>화학제품                        | 의료용 물질 및<br>의약품                                                         | 고무제품 및<br>플라스틱제품                  | 비금속<br>광물제품                         | 1차<br>금속        | 금속<br>가공제품                      | 전자부품,<br>컴퓨터, 영상,<br>음향 및 통신장비                                                            |
| 1990 | 28.5                                                     | 20.0                                  | 16.9                                                                    | 52.7                              | 61.7                                | 38.0            | 75.9                            | 1.4                                                                                       |
| 1991 | 35.8                                                     | 23.5                                  | 18.8                                                                    | 57.1                              | 71.6                                | 42.1            | 81.7                            | 1.6                                                                                       |
| 1992 | 44.9                                                     | 29.2                                  | 19.7                                                                    | 60.5                              | 76.3                                | 44.1            | 78.0                            | 1.7                                                                                       |
| 1993 | 48.7                                                     | 32.0                                  | 20.9                                                                    | 63.1                              | 77.0                                | 49.1            | 81.6                            | 2.0                                                                                       |
| 1994 | 49.7                                                     | 34.7                                  | 22.8                                                                    | 68.3                              | 82.8                                | 53.2            | 90.1                            | 2.4                                                                                       |
| 1995 | 56.1                                                     | 37.1                                  | 24.5                                                                    | 71.7                              | 87.7                                | 58.4            | 101.2                           | 3.2                                                                                       |
| 1996 | 65.4                                                     | 41.7                                  | 27.4                                                                    | 76.0                              | 92.9                                | 62.0            | 106.9                           | 3.9                                                                                       |
| 1997 | 79.6                                                     | 47.6                                  | 29.2                                                                    | 77.5                              | 94.5                                | 65.6            | 109.4                           | 4.7                                                                                       |
| 1998 | 71.3                                                     | 47.0                                  | 25.8                                                                    | 61.3                              | 72.6                                | 57.7            | 85.9                            | 6.2                                                                                       |
| 1999 | 77.6                                                     | 52.0                                  | 28.2                                                                    | 72.1                              | 78.0                                | 65.8            | 90.3                            | 9.4                                                                                       |
| 2000 | 78.9                                                     | 54.7                                  | 31.0                                                                    | 77.0                              | 83.1                                | 71.4            | 94.7                            | 13.0                                                                                      |
| 2001 | 76.0                                                     | 55.5                                  | 33.6                                                                    | 78.9                              | 84.8                                | 72.4            | 87.6                            | 13.3                                                                                      |
| 2002 | 69.6                                                     | 59.1                                  | 35.4                                                                    | 84.1                              | 86.6                                | 76.0            | 90.4                            | 16.5                                                                                      |
| 2003 | 71.9                                                     | 61.2                                  | 37.7                                                                    | 86.2                              | 91.6                                | 79.9            | 92.0                            | 19.3                                                                                      |
| 2004 | 74.3                                                     | 64.2                                  | 40.3                                                                    | 89.1                              | 90.2                                | 84.0            | 94.5                            | 24.5                                                                                      |
| 2005 | 76.7                                                     | 65.1                                  | 45.1                                                                    | 90.8                              | 84.2                                | 84.3            | 92.9                            | 28.9                                                                                      |
| 2006 | 77.7                                                     | 66.8                                  | 50.1                                                                    | 97.0                              | 89.4                                | 87.3            | 98.8                            | 35.3                                                                                      |
| 2007 | 78.6                                                     | 71.4                                  | 54.4                                                                    | 102.6                             | 94.5                                | 91.3            | 104.1                           | 40.1                                                                                      |
| 2008 | 79.2                                                     | 72.2                                  | 58.7                                                                    | 99.2                              | 95.5                                | 92.7            | 109.9                           | 43.8                                                                                      |
| 2009 | 78.2                                                     | 75.9                                  | 62.4                                                                    | 90.8                              | 94.5                                | 84.0            | 98.9                            | 47.8                                                                                      |
| 2010 | 80.9                                                     | 82.1                                  | 65.0                                                                    | 101.9                             | 99.7                                | 100.9           | 107.3                           | 59.9                                                                                      |
| 2011 | 86.5                                                     | 84.3                                  | 65.3                                                                    | 107.1                             | 100.0                               | 107.1           | 116.9                           | 64.1                                                                                      |
| 2012 | 88.3                                                     | 87.5                                  | 65.8                                                                    | 108.4                             | 94.9                                | 107.8           | 126.6                           | 65.7                                                                                      |
| 2013 | 84.7                                                     | 91.0                                  | 67.1                                                                    | 112.0                             | 100.3                               | 106.9           | 125.9                           | 68.0                                                                                      |
| 2014 | 89.1                                                     | 91.7                                  | 68.1                                                                    | 112.9                             | 96.6                                | 110.9           | 130.5                           | 66.8                                                                                      |
| 2015 | 94.4                                                     | 93.8                                  | 69.4                                                                    | 112.7                             | 103.0                               | 109.0           | 124.8                           | 67.7                                                                                      |
| 2016 | 101.0                                                    | 98.9                                  | 76.2                                                                    | 113.4                             | 112.3                               | 111.1           | 127.5                           | 71.1                                                                                      |
| 2017 | 108.4                                                    | 102.4                                 | 82.2                                                                    | 112.7                             | 114.5                               | 112.1           | 120.6                           | 76.2                                                                                      |
| 2018 | 110.5                                                    | 104.7                                 | 88.9                                                                    | 107.2                             | 110.4                               | 109.1           | 111.0                           | 85.3                                                                                      |
| 2019 | 108.6                                                    | 103.2                                 | 91.3                                                                    | 105.2                             | 107.4                               | 106.6           | 109.2                           | 89.4                                                                                      |
| 2020 | 100.0                                                    | 100.0                                 | 100.0                                                                   | 100.0                             | 100.0                               | 100.0           | 100.0                           | 100.0                                                                                     |
| 2021 | 103.6                                                    | 108.6                                 | 102.9                                                                   | 103.2                             | 104.0                               | 105.1           | 94.8                            | 120.1                                                                                     |
| 2022 | 105.4                                                    | 97.8                                  | 117.2                                                                   | 103.2                             | 99.5                                | 97.8            | 94.1                            | 120.9                                                                                     |
| 2023 | 105.5                                                    | 88.4                                  | 127.4                                                                   | 98.5                              | 94.1                                | 98.0            | 96.5                            | 114.1                                                                                     |
|      | Coke, Briquettes<br>and Refined<br>Petroleum<br>Products | Chemicals and<br>Chemical<br>Products | Pharmaceuticals,<br>Medicinal<br>Chemicals and<br>Botanical<br>Products | Rubber and<br>Plastic<br>Products | Non-Metallic<br>Mineral<br>Products | Basic<br>Metals | Fabricated<br>Metal<br>Products | Electronic Components,<br>Computer, Visual,<br>Sounding and<br>Communication<br>Equipment |
|      | Manufacturing                                            |                                       |                                                                         |                                   |                                     |                 |                                 |                                                                                           |

1. 2014년까지는, ①전기업, ②가스업, ③증기·온수 공급업, ④수도업을 포함하나 2015년 이후부터 ④수도업이 제외됨.

자료: 통계청



#### 4-4. Industrial Production Index(Continued)

2020=100

| 의료, 정밀,<br>광학기기 및 시계                                                    | 전기장비                    | 기타 기계 및<br>장비                    | 자동차 및<br>트레일러                                   | 기타<br>운송장비                      | 가구        | 기타 제품                      | 전기업 및<br>가스업 <sup>1</sup>                                                 |      |
|-------------------------------------------------------------------------|-------------------------|----------------------------------|-------------------------------------------------|---------------------------------|-----------|----------------------------|---------------------------------------------------------------------------|------|
| 46.1                                                                    | 33.8                    | 28.0                             | 20.0                                            | 22.1                            | 102.2     | 292.4                      | 18.3                                                                      | 1990 |
| 46.1                                                                    | 37.3                    | 31.0                             | 23.1                                            | 26.3                            | 106.0     | 292.4                      | 20.4                                                                      | 1991 |
| 46.5                                                                    | 38.7                    | 30.3                             | 26.3                                            | 32.7                            | 103.4     | 261.9                      | 22.8                                                                      | 1992 |
| 47.5                                                                    | 41.0                    | 31.6                             | 30.7                                            | 28.8                            | 101.6     | 231.3                      | 25.5                                                                      | 1993 |
| 50.9                                                                    | 45.8                    | 37.5                             | 36.7                                            | 33.4                            | 101.4     | 222.2                      | 29.4                                                                      | 1994 |
| 54.2                                                                    | 52.7                    | 44.8                             | 42.9                                            | 38.2                            | 104.8     | 215.6                      | 33.4                                                                      | 1995 |
| 51.7                                                                    | 55.7                    | 47.0                             | 48.3                                            | 45.5                            | 100.8     | 204.1                      | 37.5                                                                      | 1996 |
| 50.7                                                                    | 55.5                    | 45.7                             | 48.1                                            | 49.7                            | 90.7      | 188.2                      | 41.2                                                                      | 1997 |
| 45.7                                                                    | 41.7                    | 31.3                             | 31.7                                            | 74.3                            | 63.6      | 207.7                      | 39.8                                                                      | 1998 |
| 50.9                                                                    | 52.8                    | 38.8                             | 48.6                                            | 80.6                            | 89.5      | 215.5                      | 44.7                                                                      | 1999 |
| 55.0                                                                    | 63.0                    | 48.8                             | 55.4                                            | 74.1                            | 84.6      | 206.1                      | 50.1                                                                      | 2000 |
| 55.9                                                                    | 62.7                    | 46.6                             | 54.8                                            | 90.3                            | 82.4      | 192.5                      | 53.5                                                                      | 2001 |
| 55.5                                                                    | 70.6                    | 49.8                             | 59.4                                            | 88.5                            | 88.8      | 173.5                      | 57.6                                                                      | 2002 |
| 56.6                                                                    | 70.6                    | 53.1                             | 63.3                                            | 94.5                            | 89.5      | 141.8                      | 60.7                                                                      | 2003 |
| 57.5                                                                    | 74.8                    | 59.8                             | 70.7                                            | 107.6                           | 89.2      | 124.3                      | 64.3                                                                      | 2004 |
| 54.4                                                                    | 77.5                    | 61.6                             | 76.6                                            | 115.8                           | 86.9      | 109.4                      | 68.9                                                                      | 2005 |
| 58.4                                                                    | 77.7                    | 67.5                             | 82.8                                            | 125.4                           | 88.1      | 103.7                      | 71.7                                                                      | 2006 |
| 61.2                                                                    | 81.2                    | 74.2                             | 87.9                                            | 134.2                           | 87.4      | 102.7                      | 74.9                                                                      | 2007 |
| 64.2                                                                    | 86.3                    | 74.7                             | 85.1                                            | 165.1                           | 89.3      | 87.3                       | 78.8                                                                      | 2008 |
| 65.2                                                                    | 87.6                    | 66.9                             | 79.6                                            | 186.2                           | 80.0      | 82.3                       | 80.2                                                                      | 2009 |
| 72.9                                                                    | 96.4                    | 92.7                             | 98.1                                            | 173.3                           | 84.4      | 94.9                       | 87.8                                                                      | 2010 |
| 77.0                                                                    | 97.2                    | 101.3                            | 112.5                                           | 176.3                           | 89.0      | 97.0                       | 91.8                                                                      | 2011 |
| 81.3                                                                    | 95.2                    | 99.2                             | 112.3                                           | 185.5                           | 82.9      | 98.6                       | 93.4                                                                      | 2012 |
| 90.5                                                                    | 93.5                    | 95.2                             | 113.9                                           | 176.3                           | 82.1      | 99.6                       | 93.8                                                                      | 2013 |
| 81.9                                                                    | 95.3                    | 95.6                             | 117.0                                           | 156.6                           | 87.9      | 99.5                       | 94.5                                                                      | 2014 |
| 78.6                                                                    | 92.2                    | 92.6                             | 118.5                                           | 142.5                           | 92.8      | 95.8                       | 93.8                                                                      | 2015 |
| 79.3                                                                    | 95.4                    | 94.0                             | 115.7                                           | 126.4                           | 98.6      | 100.0                      | 94.5                                                                      | 2016 |
| 93.9                                                                    | 98.3                    | 106.7                            | 112.6                                           | 96.8                            | 101.6     | 103.6                      | 99.8                                                                      | 2017 |
| 107.0                                                                   | 98.1                    | 103.2                            | 111.3                                           | 87.7                            | 94.6      | 98.4                       | 103.4                                                                     | 2018 |
| 95.5                                                                    | 101.0                   | 97.0                             | 110.5                                           | 103.0                           | 92.7      | 103.4                      | 101.9                                                                     | 2019 |
| 100.0                                                                   | 100.0                   | 100.0                            | 100.0                                           | 100.0                           | 100.0     | 100.0                      | 100.0                                                                     | 2020 |
| 116.7                                                                   | 108.7                   | 112.2                            | 106.1                                           | 96.8                            | 97.8      | 103.1                      | 104.6                                                                     | 2021 |
| 123.0                                                                   | 112.6                   | 112.9                            | 115.8                                           | 116.5                           | 87.3      | 106.5                      | 107.7                                                                     | 2022 |
| 110.8                                                                   | 111.0                   | 104.1                            | 127.6                                           | 127.8                           | 79.1      | 98.1                       | 104.8                                                                     | 2023 |
| Medical, Precision<br>and Optical<br>Instruments,<br>Watches and Clocks | Electrical<br>Equipment | Other Machinery<br>and Equipment | Motor Vehicles,<br>Trailers and<br>Semitrailers | Other<br>Transport<br>Equipment | Furniture | Other<br>Manu<br>facturing | Electricity, Gas,<br>Steam and Air<br>Conditioning<br>Supply <sup>1</sup> |      |

1. Beginning in 2015, excludes Water Supply.

Source: Statistics Korea

## 4-5. 제조업 가동률지수

2020=100

|      | 제조업           | 식료품   | 음료       | 담배      | 섬유제품     |
|------|---------------|-------|----------|---------|----------|
| 1990 | 109.9         | 101.5 | 109.0    | 163.2   | 205.7    |
| 1991 | 111.7         | 100.2 | 112.6    | 153.6   | 200.4    |
| 1992 | 110.0         | 96.7  | 108.2    | 154.4   | 195.8    |
| 1993 | 109.3         | 94.2  | 104.2    | 152.4   | 187.9    |
| 1994 | 114.2         | 96.2  | 110.6    | 133.5   | 179.7    |
| 1995 | 113.7         | 95.8  | 94.7     | 123.6   | 157.1    |
| 1996 | 113.4         | 97.6  | 93.5     | 131.3   | 156.0    |
| 1997 | 111.2         | 100.0 | 92.9     | 135.0   | 158.2    |
| 1998 | 95.6          | 87.7  | 82.9     | 140.9   | 149.3    |
| 1999 | 107.5         | 93.8  | 99.8     | 131.8   | 156.6    |
| 2000 | 110.1         | 94.9  | 102.5    | 130.1   | 151.4    |
| 2001 | 105.6         | 97.4  | 108.1    | 128.8   | 139.3    |
| 2002 | 109.8         | 101.2 | 107.1    | 129.7   | 135.2    |
| 2003 | 109.8         | 98.6  | 102.6    | 128.4   | 132.2    |
| 2004 | 112.9         | 96.8  | 103.3    | 138.9   | 129.1    |
| 2005 | 112.4         | 93.1  | 101.6    | 114.1   | 125.2    |
| 2006 | 112.7         | 91.6  | 100.6    | 127.7   | 128.5    |
| 2007 | 112.9         | 91.4  | 100.8    | 116.4   | 132.3    |
| 2008 | 109.3         | 91.9  | 104.8    | 102.1   | 125.2    |
| 2009 | 105.4         | 93.2  | 98.6     | 102.1   | 121.3    |
| 2010 | 113.6         | 98.9  | 100.5    | 101.3   | 132.2    |
| 2011 | 113.8         | 98.3  | 99.2     | 102.6   | 131.6    |
| 2012 | 110.7         | 98.9  | 102.5    | 110.3   | 129.3    |
| 2013 | 108.0         | 100.5 | 102.9    | 101.8   | 129.0    |
| 2014 | 107.0         | 98.5  | 103.6    | 106.7   | 127.1    |
| 2015 | 104.9         | 98.2  | 104.1    | 94.7    | 124.5    |
| 2016 | 103.9         | 100.2 | 106.6    | 106.5   | 121.0    |
| 2017 | 103.2         | 100.9 | 108.0    | 110.1   | 116.8    |
| 2018 | 103.7         | 99.6  | 106.0    | 93.3    | 115.5    |
| 2019 | 103.3         | 99.4  | 104.7    | 95.4    | 113.6    |
| 2020 | 100.0         | 100.0 | 100.0    | 100.0   | 100.0    |
| 2021 | 105.0         | 101.7 | 98.6     | 93.2    | 105.9    |
| 2022 | 104.8         | 109.2 | 107.8    | 95.3    | 116.8    |
| 2023 | 100.8         | 108.2 | 107.0    | 94.4    | 110.9    |
|      | Manufacturing | Food  | Beverage | Tobacco | Textiles |

자료: 통계청



## 4-5. Manufacturing Operation Ratio Index

2020=100

| 가족, 가방 및<br>신발                      | 목재 및<br>나무제품                                | 펄프, 종이 및<br>종이제품                     | 코크스, 연탄 및<br>석유정제                                        | 화학물질 및<br>화학제품                        | 고무 및<br>플라스틱제품                    |      |
|-------------------------------------|---------------------------------------------|--------------------------------------|----------------------------------------------------------|---------------------------------------|-----------------------------------|------|
| 280.1                               | 134.7                                       | 99.0                                 | 97.9                                                     | 96.1                                  | 104.8                             | 1990 |
| 257.2                               | 125.8                                       | 96.3                                 | 108.9                                                    | 96.2                                  | 108.2                             | 1991 |
| 249.3                               | 105.5                                       | 95.4                                 | 111.3                                                    | 99.9                                  | 111.8                             | 1992 |
| 229.3                               | 98.6                                        | 96.2                                 | 114.4                                                    | 99.9                                  | 108.2                             | 1993 |
| 216.2                               | 103.2                                       | 100.5                                | 116.4                                                    | 104.0                                 | 108.3                             | 1994 |
| 204.8                               | 105.7                                       | 101.2                                | 106.5                                                    | 102.4                                 | 104.5                             | 1995 |
| 196.8                               | 115.7                                       | 97.4                                 | 108.9                                                    | 103.7                                 | 107.5                             | 1996 |
| 161.2                               | 129.7                                       | 101.0                                | 108.7                                                    | 107.8                                 | 108.0                             | 1997 |
| 160.5                               | 81.9                                        | 89.0                                 | 96.9                                                     | 97.3                                  | 89.5                              | 1998 |
| 182.9                               | 108.1                                       | 98.2                                 | 100.4                                                    | 105.9                                 | 103.1                             | 1999 |
| 176.3                               | 116.3                                       | 99.2                                 | 102.3                                                    | 107.5                                 | 107.5                             | 2000 |
| 179.9                               | 118.4                                       | 96.4                                 | 99.0                                                     | 106.8                                 | 105.2                             | 2001 |
| 170.0                               | 124.4                                       | 99.1                                 | 90.6                                                     | 109.8                                 | 108.4                             | 2002 |
| 146.0                               | 123.1                                       | 98.9                                 | 94.6                                                     | 110.8                                 | 106.7                             | 2003 |
| 148.8                               | 116.7                                       | 100.1                                | 99.1                                                     | 109.2                                 | 111.0                             | 2004 |
| 133.0                               | 113.8                                       | 100.0                                | 103.2                                                    | 105.6                                 | 108.4                             | 2005 |
| 130.8                               | 123.7                                       | 100.0                                | 102.3                                                    | 106.1                                 | 109.7                             | 2006 |
| 133.2                               | 111.3                                       | 103.6                                | 102.0                                                    | 108.7                                 | 109.9                             | 2007 |
| 132.8                               | 102.5                                       | 100.8                                | 102.5                                                    | 101.8                                 | 104.3                             | 2008 |
| 126.8                               | 92.9                                        | 100.7                                | 100.3                                                    | 102.8                                 | 100.8                             | 2009 |
| 140.7                               | 103.0                                       | 106.2                                | 101.7                                                    | 106.2                                 | 112.4                             | 2010 |
| 128.8                               | 102.5                                       | 106.7                                | 106.7                                                    | 105.2                                 | 113.9                             | 2011 |
| 126.1                               | 99.2                                        | 106.4                                | 107.6                                                    | 105.2                                 | 111.9                             | 2012 |
| 131.6                               | 104.4                                       | 107.3                                | 101.7                                                    | 104.4                                 | 111.9                             | 2013 |
| 117.4                               | 105.9                                       | 106.4                                | 102.5                                                    | 103.6                                 | 110.9                             | 2014 |
| 119.5                               | 110.1                                       | 106.1                                | 104.5                                                    | 103.4                                 | 110.4                             | 2015 |
| 116.6                               | 110.7                                       | 106.9                                | 109.1                                                    | 105.5                                 | 110.3                             | 2016 |
| 100.6                               | 114.3                                       | 105.6                                | 112.1                                                    | 106.7                                 | 109.4                             | 2017 |
| 107.6                               | 107.4                                       | 106.2                                | 113.7                                                    | 104.3                                 | 106.3                             | 2018 |
| 112.6                               | 99.4                                        | 102.7                                | 111.0                                                    | 99.8                                  | 104.0                             | 2019 |
| 100.0                               | 100.0                                       | 100.0                                | 100.0                                                    | 100.0                                 | 100.0                             | 2020 |
| 101.4                               | 109.4                                       | 106.9                                | 101.7                                                    | 106.6                                 | 107.9                             | 2021 |
| 104.3                               | 105.1                                       | 109.6                                | 103.6                                                    | 96.2                                  | 111.0                             | 2022 |
| 76.7                                | 89.9                                        | 104.8                                | 103.6                                                    | 87.6                                  | 109.6                             | 2023 |
| Leather,<br>Luggage and<br>Footwear | Wood and of<br>Products of<br>Wood and Cork | Pulp, Paper<br>and Paper<br>Products | Coke, Briquettes<br>and Refined<br>Petroleum<br>Products | Chemicals and<br>Chemical<br>Products | Rubber and<br>Plastic<br>Products |      |

Source: Statistics Korea

## 4-5. 제조업 가동률지수(계속)

2020=100

|      | 비금속<br>광물제품                         | 1차 금속           | 금속가공제품                          | 전자부품, 컴퓨터,<br>영상음향 및 통신장비                                                              | 의료,정밀,<br>광학기기 및 시계                                                  | 전기장비                    |
|------|-------------------------------------|-----------------|---------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------|
| 1990 | 148.3                               | 120.0           | 112.3                           | 95.1                                                                                   | 175.8                                                                | 92.0                    |
| 1991 | 155.8                               | 117.4           | 122.9                           | 93.2                                                                                   | 181.7                                                                | 96.9                    |
| 1992 | 150.5                               | 112.0           | 108.3                           | 92.1                                                                                   | 175.2                                                                | 97.4                    |
| 1993 | 146.5                               | 114.3           | 109.7                           | 97.7                                                                                   | 170.3                                                                | 97.2                    |
| 1994 | 149.9                               | 116.5           | 122.0                           | 106.6                                                                                  | 165.0                                                                | 107.2                   |
| 1995 | 149.8                               | 116.7           | 124.7                           | 105.2                                                                                  | 166.5                                                                | 115.2                   |
| 1996 | 142.9                               | 120.5           | 132.6                           | 101.2                                                                                  | 144.8                                                                | 113.0                   |
| 1997 | 138.3                               | 123.2           | 123.6                           | 105.4                                                                                  | 131.3                                                                | 111.2                   |
| 1998 | 106.7                               | 98.7            | 93.1                            | 109.7                                                                                  | 120.3                                                                | 88.9                    |
| 1999 | 117.6                               | 104.1           | 110.5                           | 115.8                                                                                  | 135.1                                                                | 110.7                   |
| 2000 | 127.5                               | 109.0           | 117.0                           | 119.8                                                                                  | 137.5                                                                | 102.2                   |
| 2001 | 130.0                               | 109.9           | 117.5                           | 107.2                                                                                  | 127.3                                                                | 101.8                   |
| 2002 | 130.8                               | 111.4           | 122.4                           | 118.3                                                                                  | 111.0                                                                | 107.4                   |
| 2003 | 130.4                               | 114.1           | 117.2                           | 117.5                                                                                  | 118.7                                                                | 99.8                    |
| 2004 | 124.3                               | 117.3           | 112.2                           | 126.2                                                                                  | 114.0                                                                | 100.6                   |
| 2005 | 113.2                               | 114.5           | 111.6                           | 127.7                                                                                  | 112.5                                                                | 104.8                   |
| 2006 | 116.0                               | 113.6           | 112.4                           | 125.1                                                                                  | 113.7                                                                | 105.3                   |
| 2007 | 117.6                               | 112.0           | 109.5                           | 123.6                                                                                  | 107.9                                                                | 103.2                   |
| 2008 | 108.5                               | 111.5           | 110.3                           | 118.9                                                                                  | 112.6                                                                | 101.0                   |
| 2009 | 106.1                               | 98.5            | 99.5                            | 122.7                                                                                  | 107.1                                                                | 99.0                    |
| 2010 | 107.3                               | 110.1           | 105.2                           | 129.8                                                                                  | 119.9                                                                | 108.2                   |
| 2011 | 105.5                               | 110.1           | 111.6                           | 120.8                                                                                  | 118.7                                                                | 104.7                   |
| 2012 | 101.5                               | 109.2           | 109.0                           | 115.1                                                                                  | 116.3                                                                | 101.8                   |
| 2013 | 103.8                               | 108.0           | 107.4                           | 111.6                                                                                  | 117.2                                                                | 97.9                    |
| 2014 | 97.4                                | 110.6           | 107.4                           | 109.8                                                                                  | 102.6                                                                | 97.9                    |
| 2015 | 101.7                               | 108.7           | 104.5                           | 100.5                                                                                  | 100.5                                                                | 98.9                    |
| 2016 | 107.5                               | 110.3           | 107.2                           | 98.1                                                                                   | 97.1                                                                 | 101.6                   |
| 2017 | 107.6                               | 111.2           | 107.5                           | 98.4                                                                                   | 99.7                                                                 | 102.8                   |
| 2018 | 111.2                               | 108.3           | 105.0                           | 102.3                                                                                  | 104.0                                                                | 101.1                   |
| 2019 | 109.1                               | 105.9           | 104.0                           | 98.7                                                                                   | 100.7                                                                | 102.7                   |
| 2020 | 100.0                               | 100.0           | 100.0                           | 100.0                                                                                  | 100.0                                                                | 100.0                   |
| 2021 | 108.6                               | 105.3           | 108.2                           | 104.0                                                                                  | 112.2                                                                | 108.3                   |
| 2022 | 109.8                               | 97.8            | 115.1                           | 98.7                                                                                   | 114.6                                                                | 109.8                   |
| 2023 | 107.9                               | 97.9            | 114.6                           | 89.8                                                                                   | 108.5                                                                | 108.6                   |
|      | Non-Metallic<br>Mineral<br>Products | Basic<br>Metals | Fabricated<br>Metal<br>Products | Electronic Components,<br>Computer; Visual,<br>Sounding and<br>Communication Equipment | Medical, Precision and<br>Optical Instruments,<br>Watches and Clocks | Electrical<br>Equipment |

자료: 통계청



# 4-5. Manufacturing Operation Ratio Index(Continued)

2020=100

| 기타 기계 및 장비                    | 자동차 및 트레일러                                | 기타 운송장비                   | 가구        | 기타 제품               |      |
|-------------------------------|-------------------------------------------|---------------------------|-----------|---------------------|------|
| 98.8                          | 101.0                                     | 70.0                      | -         | 212.9               | 1990 |
| 97.5                          | 106.3                                     | 84.6                      | -         | 218.5               | 1991 |
| 79.2                          | 111.4                                     | 97.1                      | -         | 212.0               | 1992 |
| 82.6                          | 114.8                                     | 73.3                      | -         | 195.9               | 1993 |
| 99.8                          | 118.4                                     | 89.5                      | -         | 196.1               | 1994 |
| 123.2                         | 122.4                                     | 86.7                      | -         | 189.1               | 1995 |
| 123.5                         | 125.9                                     | 85.0                      | -         | 169.7               | 1996 |
| 111.1                         | 112.8                                     | 80.4                      | -         | 153.5               | 1997 |
| 77.5                          | 75.2                                      | 84.7                      | -         | 137.3               | 1998 |
| 94.3                          | 100.4                                     | 97.1                      | -         | 153.1               | 1999 |
| 114.2                         | 96.9                                      | 92.1                      | -         | 155.8               | 2000 |
| 105.8                         | 90.0                                      | 95.8                      | -         | 134.9               | 2001 |
| 110.7                         | 94.9                                      | 107.1                     | -         | 139.1               | 2002 |
| 122.1                         | 95.5                                      | 110.3                     | -         | 132.4               | 2003 |
| 134.7                         | 99.9                                      | 122.6                     | -         | 104.0               | 2004 |
| 129.1                         | 105.9                                     | 134.5                     | 101.6     | 99.4                | 2005 |
| 127.2                         | 110.0                                     | 139.7                     | 100.1     | 101.5               | 2006 |
| 127.8                         | 114.5                                     | 137.4                     | 97.7      | 114.9               | 2007 |
| 125.0                         | 106.9                                     | 142.5                     | 91.9      | 115.3               | 2008 |
| 109.8                         | 98.0                                      | 137.7                     | 90.3      | 112.3               | 2009 |
| 125.4                         | 115.9                                     | 111.3                     | 105.0     | 120.1               | 2010 |
| 129.1                         | 123.4                                     | 117.5                     | 104.9     | 119.3               | 2011 |
| 124.6                         | 119.2                                     | 105.7                     | 94.5      | 120.6               | 2012 |
| 114.8                         | 118.2                                     | 96.6                      | 91.9      | 116.5               | 2013 |
| 112.2                         | 119.8                                     | 91.7                      | 98.7      | 114.7               | 2014 |
| 105.0                         | 121.6                                     | 92.9                      | 97.9      | 117.4               | 2015 |
| 101.8                         | 114.1                                     | 84.8                      | 98.9      | 117.4               | 2016 |
| 107.2                         | 106.6                                     | 68.7                      | 121.4     | 115.6               | 2017 |
| 106.4                         | 109.0                                     | 69.8                      | 118.9     | 112.6               | 2018 |
| 107.5                         | 112.8                                     | 94.4                      | 105.5     | 113.1               | 2019 |
| 100.0                         | 100.0                                     | 100.0                     | 100.0     | 100.0               | 2020 |
| 107.6                         | 101.4                                     | 100.1                     | 99.6      | 100.7               | 2021 |
| 113.6                         | 108.6                                     | 119.2                     | 98.4      | 108.7               | 2022 |
| 110.4                         | 112.1                                     | 119.4                     | 92.2      | 126.2               | 2023 |
| Other Machinery and Equipment | Motor Vehicles, Trailers and Semitrailers | Other Transport Equipment | Furniture | Other Manufacturing |      |

Source: Statistics Korea

## 4-6. 산업별 월평균 근로시간(10인 이상)

단위: 시간

|      | 전체    | 광업                      | 제조업                | 전기, 가스,<br>증기 및<br>수도사업                        | 하수 · 폐기물처리,<br>원료재생 및<br>환경복원업                                                     | 건설업               | 도매 및<br>소매업                      | 운수업                 | 숙박 및<br>음식점업                                    |
|------|-------|-------------------------|--------------------|------------------------------------------------|------------------------------------------------------------------------------------|-------------------|----------------------------------|---------------------|-------------------------------------------------|
| 1990 | 209.5 | 157.4                   | 216.2              | 207.5                                          | -                                                                                  | 198.7             | 206.4                            | -                   | -                                               |
| 1991 | 208.2 | 171.4                   | 214.0              | 210.9                                          | -                                                                                  | 198.1             | 207.5                            | -                   | -                                               |
| 1992 | 206.5 | 171.4                   | 211.6              | 213.5                                          | -                                                                                  | 199.8             | 206.4                            | -                   | -                                               |
| 1993 | 206.4 | 176.7                   | 212.2              | 208.6                                          | -                                                                                  | 202.1             | 201.7                            | -                   | 203.2                                           |
| 1994 | 205.9 | 181.6                   | 211.7              | 207.3                                          | -                                                                                  | 199.0             | 201.5                            | -                   | 205.4                                           |
| 1995 | 207.0 | 190.5                   | 213.7              | 212.4                                          | -                                                                                  | 198.9             | 200.5                            | -                   | 203.6                                           |
| 1996 | 205.5 | 190.4                   | 210.1              | 216.0                                          | -                                                                                  | 195.5             | 197.2                            | -                   | 200.4                                           |
| 1997 | 203.0 | 190.8                   | 207.6              | 213.5                                          | -                                                                                  | 193.4             | 194.3                            | -                   | 198.7                                           |
| 1998 | 199.2 | 190.0                   | 200.0              | 212.6                                          | -                                                                                  | 192.4             | 193.9                            | -                   | 194.6                                           |
| 1999 | 208.2 | 192.7                   | 217.4              | 211.5                                          | -                                                                                  | 195.8             | 199.0                            | -                   | 198.3                                           |
| 2000 | 206.2 | 193.6                   | 214.3              | 209.6                                          | -                                                                                  | 192.9             | 194.4                            | -                   | 201.9                                           |
| 2001 | 203.9 | 190.3                   | 209.8              | 213.3                                          | -                                                                                  | 192.7             | 193.9                            | -                   | 204.7                                           |
| 2002 | 200.8 | 195.1                   | 207.3              | 207.0                                          | -                                                                                  | 190.7             | 191.8                            | 211.5               | 199.7                                           |
| 2003 | 199.2 | 195.6                   | 206.7              | 208.2                                          | -                                                                                  | 188.0             | 189.2                            | 210.0               | 197.6                                           |
| 2004 | 198.3 | 187.5                   | 205.9              | 198.4                                          | -                                                                                  | 188.4             | 187.8                            | 209.6               | 199.2                                           |
| 2005 | 195.9 | 189.8                   | 203.8              | 184.1                                          | -                                                                                  | 185.5             | 186.2                            | 202.3               | 206.3                                           |
| 2006 | 191.8 | 188.4                   | 199.8              | 182.2                                          | -                                                                                  | 180.7             | 183.0                            | 199.1               | 202.9                                           |
| 2007 | 188.8 | 188.5                   | 197.6              | 180.8                                          | -                                                                                  | 179.1             | 179.4                            | 194.0               | 201.2                                           |
| 2008 | 177.6 | 179.1                   | 190.7              | 173.2                                          | 197.1                                                                              | 161.9             | 176.1                            | 169.7               | 175.1                                           |
| 2009 | 177.1 | 187.8                   | 188.9              | 177.9                                          | 196.9                                                                              | 150.7             | 176.9                            | 184.6               | 170.9                                           |
| 2010 | 177.9 | 188.2                   | 192.9              | 176.9                                          | 194.7                                                                              | 151.0             | 176.2                            | 184.9               | 170.4                                           |
| 2011 | 176.9 | 187.3                   | 191.6              | 176.8                                          | 187.5                                                                              | 152.8             | 172.4                            | 181.9               | 188.3                                           |
| 2012 | 175.0 | 185.8                   | 187.5              | 175.2                                          | 186.2                                                                              | 150.9             | 171.8                            | 182.1               | 189.5                                           |
| 2013 | 173.4 | 181.0                   | 186.2              | 173.1                                          | 182.8                                                                              | 153.3             | 170.6                            | 177.8               | 177.2                                           |
| 2014 | 172.4 | 178.4                   | 186.7              | 170.3                                          | 178.5                                                                              | 152.0             | 169.8                            | 172.9               | 174.7                                           |
| 2015 | 173.6 | 178.5                   | 187.6              | 170.5                                          | 178.9                                                                              | 151.0             | 170.8                            | 173.7               | 172.2                                           |
| 2016 | 172.1 | 177.4                   | 185.9              | 167.1                                          | 178.8                                                                              | 150.3             | 169.6                            | 172.2               | 168.5                                           |
| 2017 | 169.1 | 179.7                   | 182.6              | 164.3                                          | 179.8                                                                              | 148.3             | 166.3                            | 168.6               | 171.9                                           |
| 2018 | 166.8 | 180.1                   | 179.8              | 161.3                                          | 181.2                                                                              | 144.3             | 164.0                            | 165.5               | 172.5                                           |
| 2019 | 166.4 | 178.9                   | 178.8              | 159.7                                          | 182.4                                                                              | 143.0             | 164.9                            | 162.9               | 171.4                                           |
| 2020 | 163.4 | 180.2                   | 174.5              | 161.9                                          | 178.1                                                                              | 143.1             | 165.1                            | 157.4               | 157.8                                           |
| 2021 | 162.4 | 180.5                   | 174.5              | 160.5                                          | 177.8                                                                              | 140.5             | 163.2                            | 156.2               | 159.5                                           |
| 2022 | 159.7 | 172.3                   | 171.1              | 156.9                                          | 175.1                                                                              | 138.4             | 160.2                            | 156.6               | 158.8                                           |
| 2023 | 160.3 | 167.5                   | 173.4              | 159.4                                          | 172.4                                                                              | 134.4             | 162.5                            | 160.4               | 159.6                                           |
|      | Total | Mining and<br>Quarrying | Manu-<br>facturing | Electricity, gas,<br>Steam and Water<br>Supply | Sewerage, Waste<br>Management,<br>Materials Recovery and<br>Remediation Activities | Cons-<br>truction | Wholesale<br>and Retail<br>Trade | Tran-<br>sportation | Accommodation<br>and Food Service<br>Activities |

주: 2008년 이후는 제9차 개정 한국표준산업분류를 따름.

자료: 고용노동부



#### 4-6. Monthly Working Hours by Industry(10 or More Employees)

Unit: Hours

| 출판, 영상,<br>방송통신 및<br>정보서비스업       | 금융 및<br>보험업                                 | 부동산업 및<br>임대업                                           | 전문, 과학 및<br>기술<br>서비스업                                     | 사업시설관리<br>및 사업지원<br>서비스업                                                 | 교육<br>서비스업 | 보건업 및<br>사회복지<br>서비스업                         | 예술, 스포츠<br>및 여가관련<br>서비스업                                | 협회및단체,<br>수리 및 기타<br>개인서비스업                                              |      |
|-----------------------------------|---------------------------------------------|---------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------|------------|-----------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------|------|
| -                                 | 189.2                                       | -                                                       | -                                                          | -                                                                        | -          | -                                             | -                                                        | 193.1                                                                    | 1990 |
| -                                 | 191.9                                       | -                                                       | -                                                          | -                                                                        | -          | -                                             | -                                                        | 193.5                                                                    | 1991 |
| -                                 | 192.7                                       | -                                                       | -                                                          | -                                                                        | -          | -                                             | -                                                        | 194.4                                                                    | 1992 |
| -                                 | 186.6                                       | 209.3                                                   | -                                                          | -                                                                        | 189.4      | 196.1                                         | -                                                        | 197.4                                                                    | 1993 |
| -                                 | 187.7                                       | 210.2                                                   | -                                                          | -                                                                        | 185.5      | 194.8                                         | -                                                        | 196.7                                                                    | 1994 |
| -                                 | 187.0                                       | 207.4                                                   | -                                                          | -                                                                        | 185.5      | 195.4                                         | -                                                        | 200.0                                                                    | 1995 |
| -                                 | 188.1                                       | 210.1                                                   | -                                                          | -                                                                        | 186.1      | 195.7                                         | -                                                        | 199.5                                                                    | 1996 |
| -                                 | 187.1                                       | 208.1                                                   | -                                                          | -                                                                        | 183.6      | 195.5                                         | -                                                        | 199.5                                                                    | 1997 |
| -                                 | 187.6                                       | 209.2                                                   | -                                                          | -                                                                        | 185.3      | 195.1                                         | -                                                        | 198.5                                                                    | 1998 |
| -                                 | 188.3                                       | 207.2                                                   | -                                                          | -                                                                        | 196.0      | 195.7                                         | -                                                        | 198.4                                                                    | 1999 |
| -                                 | 186.5                                       | 205.9                                                   | -                                                          | -                                                                        | 199.5      | 195.7                                         | -                                                        | 194.8                                                                    | 2000 |
| -                                 | 185.3                                       | 205.3                                                   | -                                                          | -                                                                        | 193.6      | 195.8                                         | -                                                        | 197.1                                                                    | 2001 |
| 189.1                             | 181.7                                       | 241.8                                                   | -                                                          | 192.3                                                                    | 183.4      | 192.1                                         | 196.8                                                    | 193.3                                                                    | 2002 |
| 186.5                             | 174.5                                       | 233.2                                                   | -                                                          | 193.4                                                                    | 181.8      | 189.6                                         | 197.2                                                    | 191.3                                                                    | 2003 |
| 180.0                             | 173.9                                       | 237.7                                                   | -                                                          | 191.2                                                                    | 181.4      | 188.1                                         | 193.9                                                    | 192.2                                                                    | 2004 |
| 176.7                             | 170.3                                       | 248.7                                                   | -                                                          | 187.1                                                                    | 177.8      | 186.3                                         | 193.0                                                    | 190.9                                                                    | 2005 |
| 173.3                             | 168.1                                       | 237.4                                                   | -                                                          | 181.3                                                                    | 174.1      | 182.6                                         | 191.2                                                    | 188.9                                                                    | 2006 |
| 172.0                             | 167.4                                       | 232.1                                                   | -                                                          | 178.3                                                                    | 170.4      | 181.2                                         | 187.0                                                    | 186.9                                                                    | 2007 |
| 166.5                             | 166.0                                       | 209.1                                                   | 167.3                                                      | 180.3                                                                    | 148.5      | 176.5                                         | 161.7                                                    | 178.9                                                                    | 2008 |
| 167.5                             | 166.8                                       | 204.1                                                   | 167.5                                                      | 178.3                                                                    | 151.8      | 175.9                                         | 165.2                                                    | 177.9                                                                    | 2009 |
| 166.5                             | 165.1                                       | 201.1                                                   | 166.4                                                      | 178.9                                                                    | 148.4      | 176.1                                         | 162.1                                                    | 175.0                                                                    | 2010 |
| 165.3                             | 162.9                                       | 196.9                                                   | 166.3                                                      | 173.5                                                                    | 151.5      | 172.9                                         | 158.8                                                    | 178.2                                                                    | 2011 |
| 164.6                             | 162.7                                       | 193.1                                                   | 165.3                                                      | 173.6                                                                    | 149.6      | 175.0                                         | 158.3                                                    | 175.0                                                                    | 2012 |
| 163.9                             | 162.1                                       | 191.4                                                   | 163.8                                                      | 172.9                                                                    | 149.0      | 172.4                                         | 158.3                                                    | 172.9                                                                    | 2013 |
| 162.9                             | 163.1                                       | 188.8                                                   | 163.4                                                      | 173.8                                                                    | 151.7      | 170.7                                         | 165.3                                                    | 163.1                                                                    | 2014 |
| 165.5                             | 163.8                                       | 192.0                                                   | 165.0                                                      | 174.6                                                                    | 151.4      | 172.8                                         | 167.1                                                    | 163.7                                                                    | 2015 |
| 164.3                             | 162.4                                       | 190.8                                                   | 163.3                                                      | 173.0                                                                    | 147.8      | 171.0                                         | 165.2                                                    | 163.5                                                                    | 2016 |
| 162.3                             | 160.3                                       | 185.0                                                   | 160.1                                                      | 168.6                                                                    | 144.7      | 167.5                                         | 163.0                                                    | 160.5                                                                    | 2017 |
| 163.6                             | 160.8                                       | 178.9                                                   | 160.5                                                      | 166.3                                                                    | 143.6      | 166.0                                         | 161.8                                                    | 159.5                                                                    | 2018 |
| 166.3                             | 161.4                                       | 177.3                                                   | 161.7                                                      | 166.0                                                                    | 146.1      | 165.3                                         | 160.5                                                    | 158.1                                                                    | 2019 |
| 165.7                             | 161.2                                       | 174.2                                                   | 162.0                                                      | 164.2                                                                    | 138.5      | 161.2                                         | 153.9                                                    | 156.4                                                                    | 2020 |
| 164.4                             | 159.9                                       | 172.9                                                   | 160.7                                                      | 163.1                                                                    | 137.2      | 159.0                                         | 154.7                                                    | 160.5                                                                    | 2021 |
| 162.3                             | 156.3                                       | 168.8                                                   | 158.6                                                      | 160.7                                                                    | 134.9      | 156.4                                         | 156.2                                                    | 157.2                                                                    | 2022 |
| 164.7                             | 158.9                                       | 170.1                                                   | 160.1                                                      | 159.8                                                                    | 137.3      | 153.5                                         | 154.9                                                    | 157.3                                                                    | 2023 |
| Information and<br>Communications | Financial<br>and<br>Insurance<br>Activities | Real Estate<br>Activities and<br>Renting and<br>Leasing | Professional,<br>Scientific and<br>Technical<br>Activities | Business<br>Facilities<br>Management and<br>Business<br>Support Services | Education  | Human Health<br>and Social Work<br>Activities | Arts,<br>Sports and<br>Recreation<br>Related<br>Services | Membership<br>Organizations,<br>Repair and<br>Other Personal<br>Services |      |

Note: Beginning in 2008, based on the 9th revision of Korea Standard Industrial Classification.

Source: Ministry of Employment and Labor

## 4-7. 산업별 월평균 임금(10인 이상)

단위: 천원

|      | 전체    | 광업                   | 제조업            | 전기, 가스, 증기 및 수도사업                        | 하수 · 폐기물처리, 원료재생 및 환경복원업                                                  | 건설업           | 도매 및 소매업                   | 운수업             | 숙박 및 음식점업                                 |
|------|-------|----------------------|----------------|------------------------------------------|---------------------------------------------------------------------------|---------------|----------------------------|-----------------|-------------------------------------------|
| 1990 | 642   | 605                  | 591            | 954                                      | -                                                                         | 745           | 655                        | -               | -                                         |
| 1991 | 755   | 711                  | 690            | 1,124                                    | -                                                                         | 885           | 773                        | -               | -                                         |
| 1992 | 869   | 860                  | 799            | 1,216                                    | -                                                                         | 1,020         | 884                        | -               | -                                         |
| 1993 | 975   | 980                  | 885            | 1,324                                    | -                                                                         | 1,155         | 982                        | -               | 759                                       |
| 1994 | 1,099 | 1,096                | 1,023          | 1,425                                    | -                                                                         | 1,270         | 1,071                      | -               | 864                                       |
| 1995 | 1,222 | 1,195                | 1,124          | 1,608                                    | -                                                                         | 1,384         | 1,174                      | -               | 995                                       |
| 1996 | 1,368 | 1,380                | 1,261          | 1,917                                    | -                                                                         | 1,501         | 1,317                      | -               | 1,112                                     |
| 1997 | 1,463 | 1,535                | 1,326          | 2,079                                    | -                                                                         | 1,624         | 1,427                      | -               | 1,202                                     |
| 1998 | 1,427 | 1,525                | 1,285          | 2,022                                    | -                                                                         | 1,502         | 1,397                      | -               | 1,178                                     |
| 1999 | 1,599 | 1,581                | 1,476          | 2,328                                    | -                                                                         | 1,691         | 1,471                      | -               | 1,192                                     |
| 2000 | 1,727 | 1,702                | 1,602          | 2,490                                    | -                                                                         | 1,840         | 1,598                      | -               | 1,251                                     |
| 2001 | 1,825 | 1,780                | 1,702          | 2,875                                    | -                                                                         | 1,835         | 1,827                      | -               | 1,336                                     |
| 2002 | 2,036 | 1,994                | 1,907          | 3,243                                    | -                                                                         | 2,063         | 1,979                      | 1,666           | 1,527                                     |
| 2003 | 2,229 | 2,304                | 2,074          | 3,661                                    | -                                                                         | 2,287         | 2,215                      | 1,852           | 1,615                                     |
| 2004 | 2,373 | 2,457                | 2,280          | 3,860                                    | -                                                                         | 2,352         | 2,301                      | 1,947           | 1,686                                     |
| 2005 | 2,525 | 2,537                | 2,458          | 4,138                                    | -                                                                         | 2,374         | 2,574                      | 2,121           | 1,781                                     |
| 2006 | 2,667 | 2,616                | 2,595          | 4,354                                    | -                                                                         | 2,577         | 2,718                      | 2,191           | 1,830                                     |
| 2007 | 2,823 | 2,835                | 2,772          | 4,703                                    | -                                                                         | 2,731         | 2,883                      | 2,308           | 1,851                                     |
| 2008 | 2,722 | 2,978                | 2,783          | 5,174                                    | 2,289                                                                     | 2,043         | 2,578                      | 2,080           | 1,622                                     |
| 2009 | 2,791 | 2,863                | 2,843          | 5,141                                    | 2,435                                                                     | 1,978         | 2,727                      | 2,273           | 1,632                                     |
| 2010 | 2,985 | 3,075                | 3,103          | 5,502                                    | 2,552                                                                     | 2,149         | 2,933                      | 2,394           | 1,722                                     |
| 2011 | 3,012 | 3,348                | 3,155          | 5,508                                    | 2,592                                                                     | 2,353         | 3,172                      | 2,394           | 1,922                                     |
| 2012 | 3,182 | 3,531                | 3,352          | 5,407                                    | 2,762                                                                     | 2,485         | 3,368                      | 2,589           | 2,021                                     |
| 2013 | 3,303 | 3,626                | 3,515          | 5,558                                    | 2,855                                                                     | 2,638         | 3,418                      | 2,728           | 1,997                                     |
| 2014 | 3,401 | 3,625                | 3,660          | 5,573                                    | 2,929                                                                     | 2,691         | 3,500                      | 2,803           | 1,993                                     |
| 2015 | 3,512 | 3,852                | 3,769          | 5,868                                    | 3,068                                                                     | 2,783         | 3,597                      | 2,948           | 2,030                                     |
| 2016 | 3,650 | 3,959                | 3,927          | 6,351                                    | 3,261                                                                     | 2,888         | 3,738                      | 3,106           | 2,104                                     |
| 2017 | 3,730 | 3,992                | 4,009          | 6,321                                    | 3,334                                                                     | 3,041         | 3,860                      | 3,248           | 2,261                                     |
| 2018 | 3,915 | 4,069                | 4,281          | 6,470                                    | 3,541                                                                     | 3,189         | 4,013                      | 3,452           | 2,402                                     |
| 2019 | 4,042 | 4,193                | 4,379          | 6,562                                    | 3,776                                                                     | 3,398         | 4,193                      | 3,571           | 2,493                                     |
| 2020 | 4,063 | 4,592                | 4,355          | 6,825                                    | 4,218                                                                     | 3,497         | 4,243                      | 3,592           | 2,426                                     |
| 2021 | 4,270 | 4,697                | 4,653          | 6,855                                    | 4,440                                                                     | 3,583         | 4,426                      | 3,913           | 2,546                                     |
| 2022 | 4,469 | 4,830                | 4,924          | 6,983                                    | 4,478                                                                     | 3,706         | 4,665                      | 4,212           | 2,669                                     |
| 2023 | 4,561 | 4,781                | 5,083          | 7,249                                    | 4,618                                                                     | 3,839         | 4,840                      | 4,355           | 2,846                                     |
|      | Total | Mining and Quarrying | Manu facturing | Electricity, gas, Steam and Water Supply | Sewerage, Waste Management, Materials Recovery and Remediation Activities | Cons truction | Wholesale and Retail Trade | Tran sportation | Accommodation and Food Service Activities |

주: 2008년 이후는 제9차 개정 한국표준산업분류를 따름.

자료: 고용노동부



# 4-7. Monthly Earnings of Employees by Industry(10 or More Employees)

Unit: Thousand KRW

| 출판,영상,<br>방송통신 및<br>정보서비스업        | 금융 및<br>보험업                                 | 부동산업<br>및 임대업                                           | 전문,과학 및<br>기술<br>서비스업                                      | 사업시설관리 및<br>사업지원<br>서비스업                                              | 교육<br>서비스업 | 보건업 및<br>사회복지<br>서비스업                            | 예술,스포츠<br>및 여가관련<br>서비스업                                 | 협회및단체,<br>수리 및 기타<br>개인서비스업                                           |      |
|-----------------------------------|---------------------------------------------|---------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------|------------|--------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------|------|
| -                                 | -                                           | -                                                       | -                                                          | -                                                                     | -          | -                                                | -                                                        | -                                                                     | 1990 |
| -                                 | -                                           | -                                                       | -                                                          | -                                                                     | -          | -                                                | -                                                        | -                                                                     | 1991 |
| -                                 | -                                           | -                                                       | -                                                          | -                                                                     | -          | -                                                | -                                                        | -                                                                     | 1992 |
| -                                 | 1,418                                       | 921                                                     | -                                                          | -                                                                     | 1,519      | 967                                              | -                                                        | 1,266                                                                 | 1993 |
| -                                 | 1,569                                       | 1,006                                                   | -                                                          | -                                                                     | 1,740      | 1,094                                            | -                                                        | 1,393                                                                 | 1994 |
| -                                 | 1,828                                       | 1,141                                                   | -                                                          | -                                                                     | 1,934      | 1,221                                            | -                                                        | 1,540                                                                 | 1995 |
| -                                 | 1,987                                       | 1,242                                                   | -                                                          | -                                                                     | 2,037      | 1,347                                            | -                                                        | 1,726                                                                 | 1996 |
| -                                 | 2,054                                       | 1,362                                                   | -                                                          | -                                                                     | 2,202      | 1,462                                            | -                                                        | 1,820                                                                 | 1997 |
| -                                 | 1,967                                       | 1,329                                                   | -                                                          | -                                                                     | 2,190      | 1,484                                            | -                                                        | 1,765                                                                 | 1998 |
| -                                 | 2,216                                       | 1,445                                                   | -                                                          | -                                                                     | 2,019      | 1,604                                            | -                                                        | 1,686                                                                 | 1999 |
| -                                 | 2,448                                       | 1,533                                                   | -                                                          | -                                                                     | 2,096      | 1,671                                            | -                                                        | 1,889                                                                 | 2000 |
| -                                 | 2,646                                       | 1,597                                                   | -                                                          | -                                                                     | 2,138      | 1,804                                            | -                                                        | 1,894                                                                 | 2001 |
| 3,545                             | 3,027                                       | 1,254                                                   | -                                                          | 2,024                                                                 | 2,597      | 1,945                                            | 2,414                                                    | 1,862                                                                 | 2002 |
| 3,665                             | 3,395                                       | 1,391                                                   | -                                                          | 2,115                                                                 | 2,850      | 2,078                                            | 2,756                                                    | 2,018                                                                 | 2003 |
| 3,743                             | 3,646                                       | 1,431                                                   | -                                                          | 2,256                                                                 | 3,053      | 2,192                                            | 2,875                                                    | 2,089                                                                 | 2004 |
| 3,809                             | 3,854                                       | 1,566                                                   | -                                                          | 2,364                                                                 | 3,052      | 2,403                                            | 2,841                                                    | 2,196                                                                 | 2005 |
| 3,879                             | 4,198                                       | 1,746                                                   | -                                                          | 2,541                                                                 | 3,192      | 2,593                                            | 2,928                                                    | 2,209                                                                 | 2006 |
| 4,196                             | 4,532                                       | 1,867                                                   | -                                                          | 2,677                                                                 | 3,232      | 2,676                                            | 3,000                                                    | 2,328                                                                 | 2007 |
| 3,265                             | 4,536                                       | 1,902                                                   | 3,677                                                      | 1,731                                                                 | 3,325      | 2,690                                            | 2,104                                                    | 2,075                                                                 | 2008 |
| 3,291                             | 4,608                                       | 1,957                                                   | 3,924                                                      | 1,723                                                                 | 3,339      | 2,767                                            | 2,231                                                    | 2,179                                                                 | 2009 |
| 3,439                             | 4,821                                       | 2,087                                                   | 4,178                                                      | 1,855                                                                 | 3,361      | 2,845                                            | 2,253                                                    | 2,228                                                                 | 2010 |
| 3,800                             | 4,894                                       | 2,142                                                   | 4,031                                                      | 1,693                                                                 | 3,239      | 2,701                                            | 2,217                                                    | 2,469                                                                 | 2011 |
| 3,949                             | 5,135                                       | 2,382                                                   | 4,279                                                      | 1,779                                                                 | 3,372      | 2,850                                            | 2,308                                                    | 2,548                                                                 | 2012 |
| 4,053                             | 5,178                                       | 2,480                                                   | 4,415                                                      | 1,869                                                                 | 3,463      | 2,918                                            | 2,429                                                    | 2,502                                                                 | 2013 |
| 4,059                             | 5,381                                       | 2,456                                                   | 4,723                                                      | 1,904                                                                 | 3,522      | 3,008                                            | 2,625                                                    | 2,472                                                                 | 2014 |
| 4,183                             | 5,674                                       | 2,624                                                   | 4,880                                                      | 1,962                                                                 | 3,655      | 3,079                                            | 2,713                                                    | 2,530                                                                 | 2015 |
| 4,314                             | 5,927                                       | 2,777                                                   | 5,144                                                      | 2,041                                                                 | 3,743      | 3,164                                            | 2,819                                                    | 2,715                                                                 | 2016 |
| 4,446                             | 6,082                                       | 2,766                                                   | 5,127                                                      | 2,075                                                                 | 3,892      | 3,193                                            | 2,950                                                    | 2,784                                                                 | 2017 |
| 4,634                             | 6,399                                       | 2,998                                                   | 5,418                                                      | 2,196                                                                 | 3,977      | 3,305                                            | 3,154                                                    | 3,034                                                                 | 2018 |
| 4,839                             | 6,600                                       | 3,198                                                   | 5,567                                                      | 2,334                                                                 | 4,106      | 3,452                                            | 3,315                                                    | 3,176                                                                 | 2019 |
| 4,975                             | 6,879                                       | 3,280                                                   | 5,517                                                      | 2,383                                                                 | 3,910      | 3,381                                            | 3,375                                                    | 3,186                                                                 | 2020 |
| 5,186                             | 7,292                                       | 3,405                                                   | 5,799                                                      | 2,468                                                                 | 3,893      | 3,451                                            | 3,559                                                    | 3,422                                                                 | 2021 |
| 5,440                             | 7,642                                       | 3,553                                                   | 6,081                                                      | 2,572                                                                 | 3,940      | 3,544                                            | 3,683                                                    | 3,610                                                                 | 2022 |
| 5,591                             | 7,642                                       | 3,513                                                   | 6,167                                                      | 2,675                                                                 | 3,988      | 3,500                                            | 3,650                                                    | 3,907                                                                 | 2023 |
| Information and<br>Communications | Financial<br>and<br>Insurance<br>Activities | Real Estate<br>Activities<br>and Renting<br>and Leasing | Professional,<br>Scientific and<br>Technical<br>Activities | Business Facilities<br>Management and<br>Business Support<br>Services | Education  | Human<br>Health and<br>Social Work<br>Activities | Arts,<br>Sports and<br>Recreation<br>Related<br>Services | Membership<br>Organizations,<br>Repair and Other<br>Personal Services |      |

Note: Beginning in 2008, based on the 9th revision of Korea Standard Industrial Classification.

Source: Ministry of Employment and Labor

## 4-8 도시 가구의 가구당 월평균 가계수지

단위: 천원

|      | 소득       | 소비지출        | 전기료         | 연료비    |
|------|----------|-------------|-------------|--------|
|      |          |             |             |        |
| 1990 | -        | 685.66      | 9.22        | 16.79  |
| 1991 | -        | 818.34      | 10.41       | 18.21  |
| 1992 | -        | 941.95      | 12.64       | 20.20  |
| 1993 | -        | 1,020.95    | 14.10       | 23.42  |
| 1994 | -        | 1,140.43    | 16.12       | 22.58  |
| 1995 | -        | 1,265.89    | 17.79       | 25.96  |
| 1996 | -        | 1,426.85    | 19.69       | 30.61  |
| 1997 | -        | 1,489.54    | 21.50       | 35.76  |
| 1998 | -        | 1,316.22    | 24.15       | 36.36  |
| 1999 | -        | 1,478.88    | 25.56       | 36.08  |
| 2000 | -        | 1,632.30    | 29.38       | 40.58  |
| 2001 | -        | 1,762.12    | 30.86       | 43.37  |
| 2002 | -        | 1,834.81    | 32.98       | 41.89  |
| 2003 | 3,762.90 | 2,431.79    | -           | 98.73  |
| 2004 | 3,850.51 | 2,481.83    | -           | 96.87  |
| 2005 | 3,894.86 | 2,515.54    | -           | 96.93  |
| 2006 | 3,993.52 | 2,556.51    | -           | 93.67  |
| 2007 | 4,102.05 | 2,584.17    | -           | 92.50  |
| 2008 | 4,152.47 | 2,589.18    | -           | 91.75  |
| 2009 | 4,090.32 | 2,561.42    | -           | 95.29  |
| 2010 | 4,204.69 | 2,647.67    | -           | 103.27 |
| 2011 | 4,275.56 | 2,662.96    | -           | 99.54  |
| 2012 | 4,440.32 | 2,676.51    | -           | 99.24  |
| 2013 | 4,474.61 | 2,667.16    | -           | 96.26  |
| 2014 | 4,567.45 | 2,708.24    | -           | 86.91  |
| 2015 | 4,610.03 | 2,701.95    | -           | 90.68  |
| 2016 | 4,592.87 | 2,661.99    | -           | 92.98  |
| 2017 | 4,565.16 | 2,618.49    | -           | 82.81  |
| 2018 | 4,754.42 | 2,561.05    | -           | 85.48  |
| 2019 | 4,856.30 | 2,957.93    | -           | 89.95  |
| 2020 | 4,936.58 | 2,910.25    | -           | 94.46  |
| 2021 | 5,103.96 | 2,945.18    | -           | 97.28  |
| 2022 | 5,391.60 | 2,976.40    | -           | 90.12  |
| 2023 | 5,635.38 | 3,074.88    | -           | 88.32  |
|      | Income   | Expenditure | Electricity | Fuel   |

주 1. 2020년 실질 기준

2. 1990~2002년: 구분류 기준 도시 2인 이상 가구

3. 2003~2018: 신분류 기준 전국 2인 이상 가구

4. 2019년 이후: 비농림어가, 전국 2인 이상 가구

5. 기간별 상세 기준은 통계청의 가계동향조사 참고

자료: 통계청 가계동향조사



## 4-8 Average Monthly Income and Expenditure per Household in Urban Areas

Unit: Thousand KRW

| 공동주택난방비     | 운송기구연료비          | 공공교통             | 개인교통              |      |
|-------------|------------------|------------------|-------------------|------|
| 0.78        | -                | 20.88            | 24.62             | 1990 |
| 0.84        | -                | 24.36            | 32.11             | 1991 |
| 1.06        | -                | 27.15            | 40.77             | 1992 |
| 1.22        | -                | 30.95            | 53.61             | 1993 |
| 1.06        | -                | 34.17            | 74.14             | 1994 |
| 1.97        | -                | 36.99            | 79.26             | 1995 |
| 2.81        | -                | 41.23            | 94.44             | 1996 |
| 3.06        | -                | 45.08            | 104.87            | 1997 |
| 4.79        | -                | 41.36            | 97.75             | 1998 |
| 4.54        | -                | 46.56            | 120.43            | 1999 |
| 5.59        | -                | 49.94            | 134.46            | 2000 |
| 5.94        | -                | 53.77            | 136.21            | 2001 |
| 5.34        | -                | 51.87            | 146.61            | 2002 |
| -           | 109.29           | -                | -                 | 2003 |
| -           | 107.44           | -                | -                 | 2004 |
| -           | 106.28           | -                | -                 | 2005 |
| -           | 105.32           | -                | -                 | 2006 |
| -           | 103.87           | -                | -                 | 2007 |
| -           | 99.24            | -                | -                 | 2008 |
| -           | 97.16            | -                | -                 | 2009 |
| -           | 94.95            | -                | -                 | 2010 |
| -           | 92.04            | -                | -                 | 2011 |
| -           | 92.30            | -                | -                 | 2012 |
| -           | 97.75            | -                | -                 | 2013 |
| -           | 101.77           | -                | -                 | 2014 |
| -           | 110.93           | -                | -                 | 2015 |
| -           | 111.88           | -                | -                 | 2016 |
| -           | 96.13            | -                | -                 | 2017 |
| -           | 93.36            | -                | -                 | 2018 |
| -           | 110.38           | -                | -                 | 2019 |
| -           | 111.03           | -                | -                 | 2020 |
| -           | 106.58           | -                | -                 | 2021 |
| -           | 106.22           | -                | -                 | 2022 |
| -           | 110.84           | -                | -                 | 2023 |
| APT Heating | Fuel of vehicles | Public transport | Private transport |      |

1. At chained 2020 year prices.

2. 1990-2002: Old classification. Include households with two or more people in cities only.

3. 2003-2018: New classification. Include households with two or more people.

4. Beginning in 2019, excludes households in agriculture, forestry and fishing and one-person households.

5. Refer to the Household Income and Expenditure Survey for more details.

Source: Household Income and Expenditure Survey, Statistics Korea

## 4-9. 에너지 다소비 업종의 주요제품 생산량

단위: 천톤

|      | 나프타<br>(kL)     | 에틸렌        | 프로필렌      | 부타디엔      | 벤젠        |
|------|-----------------|------------|-----------|-----------|-----------|
| 1990 | 5,642,031       | 1,054      | 608       | 168       | 381       |
| 1991 | 8,433,318       | 1,566      | 855       | 205       | 561       |
| 1992 | 10,375,340      | 2,769      | 1,482     | 376       | 964       |
| 1993 | 10,410,586      | 3,273      | 1,808     | 486       | 1,139     |
| 1994 | 10,806,329      | 3,667      | 2,085     | 547       | 1,255     |
| 1995 | 14,759,076      | 3,720,913  | 2,131,366 | 555,301   | 1,284,573 |
| 1996 | 16,432,946      | 3,967,575  | 2,244,393 | 600,759   | 1,406,646 |
| 1997 | 21,968,409      | 4,450,014  | 2,760,375 | 658,297   | 1,818,634 |
| 1998 | 21,766,594      | 5,109,965  | 3,246,916 | 730,898   | 2,412,217 |
| 1999 | 21,688,130      | 5,216,446  | 3,281,681 | 763,649   | 2,572,464 |
| 2000 | 21,749,026      | 5,438,736  | 3,409,256 | 808,014   | 2,834,218 |
| 2001 | 20,839,365      | 5,397,861  | 3,272,585 | 777,017   | 2,650,127 |
| 2002 | 18,747,831      | 5,636,344  | 3,556,797 | 815,959   | 2,852,494 |
| 2003 | 21,182,699      | 5,871,836  | 3,753,194 | 859,896   | 3,245,674 |
| 2004 | 24,528,586      | 5,944,704  | 3,891,762 | 917,217   | 3,462,155 |
| 2005 | 26,793,393      | 6,058,200  | 3,945,064 | 938,969   | 3,593,602 |
| 2006 | 25,055,270      | 6,054,945  | 4,170,642 | 948,302   | 3,718,609 |
| 2007 | 26,092,499      | 6,787,826  | 4,669,260 | 1,077,935 | 4,065,240 |
| 2008 | 24,357,810      | 6,989,337  | 4,772,052 | 1,071,510 | 4,005,882 |
| 2009 | 24,092,774      | 7,349,232  | 5,204,538 | 1,096,710 | 4,074,958 |
| 2010 | 26,551,189      | 7,289,944  | 5,578,404 | 1,160,945 | 4,411,768 |
| 2011 | 30,479,843      | 7,418,878  | 5,633,825 | 1,209,866 | 4,461,974 |
| 2012 | 31,329,206      | 8,075,418  | 6,128,347 | 1,345,833 | 4,741,340 |
| 2013 | 29,925,524      | 8,291,232  | 6,451,914 | 1,319,366 | 4,850,476 |
| 2014 | 33,766,163      | 8,287,643  | 6,604,024 | 1,227,538 | 5,403,074 |
| 2015 | 38,094,878      | 8,272,740  | 7,060,036 | 1,201,685 | 5,937,072 |
| 2016 | 40,929,991      | 8,504,391  | 7,932,506 | 1,226,112 | 5,907,338 |
| 2017 | 47,601,885      | 8,816,592  | 8,455,262 | 1,285,663 | 6,604,895 |
| 2018 | 49,143,291      | 8,769,019  | 8,539,984 | 1,266,625 | 6,672,383 |
| 2019 | 50,593,894      | 8,908,614  | 8,405,265 | 1,272,182 | 6,429,337 |
| 2020 | 48,055,838      | 8,741,694  | 8,339,951 | 1,207,480 | 5,907,499 |
| 2021 | 51,203,313      | 10,187,929 | 9,371,747 | 1,427,134 | 6,594,558 |
| 2022 | 55,320,887      | 9,667,267  | 8,362,462 | 1,286,625 | 6,008,514 |
| 2023 | 52,425,354      | 9,255,661  | 8,028,027 | 1,145,873 | 5,570,339 |
|      | Naphtha<br>(kL) | Ethylene   | Propylene | Butadiene | Benzene   |

1. 2017년 이후 자료는 통계청에서 공개하지 않음.

자료: 통계청, 한국철강협회



## 4-9. Product Production in Energy-Intensive Industries

Unit: Thousand Tons

| 톨루엔       | 자일렌       | 시멘트 <sup>1</sup>      | 합금철        | 알루미늄판           |      |
|-----------|-----------|-----------------------|------------|-----------------|------|
| 407       | -         | 33,914                | -          | -               | 1990 |
| 569       | -         | 39,167                | -          | -               | 1991 |
| 774       | -         | 44,444                | -          | -               | 1992 |
| 860       | -         | 47,313                | -          | -               | 1993 |
| 954       | -         | 52,088                | -          | -               | 1994 |
| 979,095   | -         | 56,101                | 217,932    | -               | 1995 |
| 1,110,862 | -         | 58,434                | 216,142    | -               | 1996 |
| 1,294,312 | -         | 60,317                | 239,731    | -               | 1997 |
| 1,207,183 | -         | 46,791                | 265,797    | -               | 1998 |
| 1,345,830 | -         | 48,579                | 256,456    | -               | 1999 |
| 1,585,760 | 2,699,152 | 51,417                | 250,294    | 389,656         | 2000 |
| 1,855,613 | 1,915,403 | 53,062                | 244,000    | 421,629         | 2001 |
| 1,913,491 | 1,525,137 | 56,823                | 230,736    | 561,571         | 2002 |
| 1,857,718 | 1,701,603 | 60,725                | 235,492    | 517,541         | 2003 |
| 1,727,408 | 1,719,380 | 56,955                | 253,902    | 614,981         | 2004 |
| 1,587,475 | 1,736,851 | 52,224                | 216,393    | 630,843         | 2005 |
| 1,764,694 | 2,178,318 | 55,021                | 298,183    | 630,116         | 2006 |
| 1,797,489 | 2,462,384 | 58,188                | 334,731    | 622,298         | 2007 |
| 1,670,689 | 2,140,179 | 56,010                | 374,961    | 634,551         | 2008 |
| 1,885,486 | 2,682,417 | 53,826                | 363,292    | 679,867         | 2009 |
| 1,837,467 | 2,764,587 | 50,695                | 583,224    | 742,799         | 2010 |
| 1,815,074 | 2,483,524 | 52,004                | 768,268    | 729,627         | 2011 |
| 2,009,988 | 1,885,323 | 52,613                | 881,875    | 714,967         | 2012 |
| 1,925,916 | 2,150,948 | 53,818                | 956,326    | 771,749         | 2013 |
| 1,809,689 | 2,047,516 | 52,490                | 915,531    | 843,874         | 2014 |
| 1,906,954 | 1,780,078 | 56,212                | 995,335    | 898,874         | 2015 |
| 2,012,981 | 1,751,076 | 61,551                | 851,456    | 895,753         | 2016 |
| 1,931,832 | 2,738,599 | -                     | 894,124    | 958,986         | 2017 |
| 1,794,149 | 2,784,504 | -                     | 931,435    | 964,496         | 2018 |
| 2,861,609 | 3,037,104 | -                     | 879,791    | 1,032,313       | 2019 |
| 2,809,708 | 2,610,244 | -                     | 784,293    | 1,042,958       | 2020 |
| 2,777,650 | 2,711,153 | -                     | 887,605    | 1,103,311       | 2021 |
| 2,926,090 | 2,551,435 | -                     | 888,202    | 1,094,876       | 2022 |
| 3,745,238 | 2,895,109 | -                     | 705,308    | 1,006,505       | 2023 |
| Toluene   | Xylene    | Cement<br>(thou. ton) | Ferroalloy | Aluminium Plate |      |

1. Since 2017, cement production has not been disclosed by Statistics Korea

Source: Statistics Korea, Korea Iron & Steel Association

## 4-10. 자동차 등록대수

단위: 천 대

|      | 합계     | 유종별      |        |       |     |                     |             |                     |          |
|------|--------|----------|--------|-------|-----|---------------------|-------------|---------------------|----------|
|      |        | 휘발유      | 경유     | LPG   | CNG | 하이브리드 <sup>1</sup>  | 전기          | 기타 <sup>2</sup>     | 수소       |
| 1990 | 3,395  | -        | -      | -     | -   | -                   | -           | -                   | -        |
| 1991 | 4,248  | -        | -      | -     | -   | -                   | -           | -                   | -        |
| 1992 | 5,231  | -        | -      | -     | -   | -                   | -           | -                   | -        |
| 1993 | 6,274  | -        | -      | -     | -   | -                   | -           | -                   | -        |
| 1994 | 7,404  | -        | -      | -     | -   | -                   | -           | -                   | -        |
| 1995 | 8,469  | -        | -      | -     | -   | -                   | -           | -                   | -        |
| 1996 | 9,553  | -        | -      | -     | -   | -                   | -           | -                   | -        |
| 1997 | 10,413 | -        | -      | -     | -   | -                   | -           | -                   | -        |
| 1998 | 10,470 | -        | -      | -     | -   | -                   | -           | -                   | -        |
| 1999 | 11,164 | -        | -      | -     | -   | -                   | -           | -                   | -        |
| 2000 | 12,059 | 1,831    | 3,594  | 1,214 | -   | -                   | 0           | 37                  | -        |
| 2001 | 12,914 | 1,586    | 4,030  | 1,428 | -   | -                   | 0           | 39                  | -        |
| 2002 | 13,949 | 1,382    | 4,607  | 1,625 | -   | -                   | 0           | 44                  | -        |
| 2003 | 14,587 | 1,246    | 5,055  | 1,723 | 1   | -                   | 0           | 46                  | -        |
| 2004 | 14,934 | 1,238    | 5,385  | 1,794 | 5   | -                   | 0           | 48                  | -        |
| 2005 | 15,397 | 1,576    | 5,650  | 1,890 | 9   | -                   | 0           | 48                  | -        |
| 2006 | 15,895 | 1,942    | 5,869  | 2,047 | 12  | -                   | 0           | 51                  | -        |
| 2007 | 16,428 | 2,280    | 6,087  | 2,187 | 15  | -                   | 0           | 53                  | -        |
| 2008 | 16,794 | 2,578    | 6,137  | 2,321 | 20  | 4                   | -           | 55                  | -        |
| 2009 | 17,325 | 3,008    | 6,285  | 2,391 | 25  | 5                   | -           | 63                  | -        |
| 2010 | 17,941 | 8,907    | 6,483  | 2,444 | 29  | 7                   | 0           | 71                  | -        |
| 2011 | 18,437 | 3,556    | 6,705  | 2,429 | 32  | 23                  | 0           | 77                  | -        |
| 2012 | 18,871 | 9,276    | 7,002  | 2,415 | 37  | 57                  | 1           | 82                  | -        |
| 2013 | 19,401 | 9,400    | 7,396  | 2,392 | 40  | 85                  | 1           | 87                  | -        |
| 2014 | 20,118 | 9,587    | 7,939  | 2,337 | 40  | 119                 | 3           | 93                  | -        |
| 2015 | 20,990 | 9,809    | 8,622  | 2,257 | 40  | 156                 | 6           | 100                 | 0        |
| 2016 | 21,803 | 10,092   | 9,170  | 2,167 | 39  | 215                 | 11          | 109                 | 0        |
| 2017 | 22,528 | 10,370   | 9,576  | 2,105 | 39  | 296                 | 25          | 118                 | 0        |
| 2018 | 23,203 | 10,629   | 9,930  | 2,035 | 39  | 387                 | 56          | 126                 | 1        |
| 2019 | 23,677 | 10,961   | 9,958  | 2,005 | 38  | 488                 | 90          | 133                 | 5        |
| 2020 | 24,366 | 11,410   | 9,992  | 1,979 | 37  | 650                 | 135         | 151                 | 11       |
| 2021 | 24,911 | 11,760   | 9,872  | 1,946 | 35  | 871                 | 231         | 177                 | 19       |
| 2022 | 25,503 | 12,069   | 9,758  | 1,905 | 33  | 1,119               | 390         | 200                 | 30       |
| 2023 | 25,949 | 12,314   | 9,500  | 1,833 | 30  | 1,478               | 544         | 216                 | 34       |
|      | Total  | Gasoline | Diesel | LPG   | CNG | Hybrid <sup>1</sup> | Electricity | Others <sup>2</sup> | hydrogen |
|      |        | Fuels    |        |       |     |                     |             |                     |          |

1. 하이브리드: 휘발유+전기

2. 기타: 등유, 알코올, 태양열, LNG, 하이브리드(경유+전기, LPG+전기, CNG+전기, LNG+전기), 기타연료 포함

자료: 국토교통부 통계누리



## 4-10. Number of Vehicles Registered

Unit: 1,000 unit

| 용도별      |            |         | 차종별       |       |        |         |      |
|----------|------------|---------|-----------|-------|--------|---------|------|
| 영업용      | 관용         | 자가용     | 승용        | 승합    | 화물     | 특수      |      |
| 322      | 34         | 3,039   | 2,075     | 384   | 925    | 11      | 1990 |
| -        | -          | -       | 2,728     | 428   | 1,077  | 15      | 1991 |
| -        | -          | -       | 3,461     | 484   | 1,262  | 25      | 1992 |
| -        | -          | -       | 4,271     | 528   | 1,449  | 26      | 1993 |
| 417      | 44         | 6,944   | 5,149     | 582   | 1,645  | 29      | 1994 |
| 449      | 46         | 7,975   | 6,006     | 613   | 1,817  | 33      | 1995 |
| 480      | 47         | 9,026   | 6,894     | 663   | 1,963  | 34      | 1996 |
| 503      | 50         | 9,860   | 7,586     | 719   | 2,072  | 36      | 1997 |
| 511      | 50         | 9,909   | 7,581     | 749   | 2,105  | 35      | 1998 |
| 564      | 50         | 10,550  | 7,837     | 993   | 2,298  | 35      | 1999 |
| 620      | 50         | 11,389  | 8,084     | 1,427 | 2,511  | 37      | 2000 |
| 669      | 52         | 12,194  | 8,889     | 1,257 | 2,728  | 39      | 2001 |
| 723      | 53         | 13,173  | 9,737     | 1,275 | 2,894  | 42      | 2002 |
| 751      | 55         | 13,781  | 10,279    | 1,247 | 3,016  | 45      | 2003 |
| 767      | 57         | 14,111  | 10,621    | 1,204 | 3,062  | 47      | 2004 |
| 784      | 58         | 14,555  | 11,122    | 1,125 | 3,102  | 48      | 2005 |
| 817      | 59         | 15,019  | 11,607    | 1,106 | 3,133  | 49      | 2006 |
| 871      | 61         | 15,496  | 12,100    | 1,105 | 3,171  | 52      | 2007 |
| 911      | 62         | 15,821  | 12,484    | 1,097 | 3,160  | 53      | 2008 |
| 930      | 64         | 16,330  | 13,024    | 1,081 | 3,167  | 54      | 2009 |
| 974      | 66         | 16,901  | 13,632    | 1,050 | 3,204  | 56      | 2010 |
| 1,011    | 69         | 17,357  | 14,136    | 1,015 | 3,226  | 59      | 2011 |
| 1,052    | 71         | 17,747  | 14,577    | 987   | 3,244  | 63      | 2012 |
| 1,126    | 73         | 18,202  | 15,078    | 971   | 3,286  | 66      | 2013 |
| 1,213    | 75         | 18,830  | 15,747    | 947   | 3,354  | 70      | 2014 |
| 1,290    | 78         | 19,623  | 16,562    | 920   | 3,433  | 75      | 2015 |
| 1,378    | 80         | 20,345  | 17,338    | 893   | 3,492  | 80      | 2016 |
| 1,458    | 86         | 20,984  | 18,035    | 868   | 3,540  | 86      | 2017 |
| 1,573    | 90         | 21,540  | 18,677    | 844   | 3,591  | 91      | 2018 |
| 1,677    | 92         | 21,908  | 19,178    | 812   | 3,593  | 95      | 2019 |
| 1,750    | 94         | 22,522  | 19,861    | 784   | 3,615  | 106     | 2020 |
| 1,828    | 96         | 22,987  | 20,411    | 750   | 3,632  | 119     | 2021 |
| 1,903    | 98         | 23,502  | 20,953    | 724   | 3,696  | 130     | 2022 |
| 1,923    | 100        | 23,926  | 21,390    | 695   | 3,726  | 138     | 2023 |
| Business | Government | Private | Passenger | Buses | Trucks | Special |      |
| End-Uses |            |         | Types     |       |        |         |      |

1. Hybrid: Gasoline+Electricity

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

Source: Ministry of Land, Infrastructure and Transport

## 4-11. 여객 수송 실적

|      | 국내                    |                   |                       |                   |                       |                   |                       |                   |                       |                   |
|------|-----------------------|-------------------|-----------------------|-------------------|-----------------------|-------------------|-----------------------|-------------------|-----------------------|-------------------|
|      | 합계                    |                   | 철도 <sup>1)</sup>      |                   | 지하철 <sup>2)</sup>     |                   | 공로 <sup>3)</sup>      |                   | 해운                    |                   |
|      | (천인)                  | (백만인-킬로)          | (천인)                  | (백만인-킬로)          | (천인)                  | (백만인-킬로)          | (천인)                  | (백만인-킬로)          | (천인)                  | (백만인-킬로)          |
| 1990 | 14,572,884            | 135,981           | 644,814               | 30,509            | 1,186,633             | 11,229            | 12,721,877            | 89,712            | 8,496                 | 520               |
| 1991 | 14,977,180            | 136,692           | 679,281               | 32,133            | 1,422,615             | 11,891            | 12,854,212            | 87,697            | 8,819                 | 524               |
| 1992 | 15,135,019            | 134,815           | 716,364               | 32,935            | 1,546,279             | 12,970            | 12,848,750            | 83,152            | 9,071                 | 525               |
| 1993 | 14,440,372            | 128,916           | 723,057               | 31,771            | 1,576,040             | 13,168            | 12,117,439            | 77,998            | 8,286                 | 468               |
| 1994 | 13,963,210            | 125,495           | 729,003               | 29,588            | 1,603,945             | 14,823            | 11,603,575            | 74,167            | 8,280                 | 436               |
| 1995 | 13,802,997            | 126,023           | 790,381               | 30,082            | 1,693,003             | 15,709            | 11,289,507            | 72,324            | 9,097                 | 502               |
| 1996 | 14,061,638            | 126,726           | 819,542               | 30,399            | 1,728,171             | 14,621            | 11,480,422            | 72,871            | 9,936                 | 547               |
| 1997 | 13,611,722            | 123,003           | 832,999               | 30,906            | 1,855,166             | 13,737            | 10,887,456            | 68,737            | 10,463                | 571               |
| 1998 | 13,480,161            | 117,012           | 829,050               | 29,405            | 1,838,870             | 13,443            | 10,783,922            | 66,853            | 8,815                 | 434               |
| 1999 | 13,326,425            | 130,358           | 823,563               | 29,429            | 2,015,999             | 18,245            | 10,455,862            | 74,636            | 9,857                 | 543               |
| 2000 | 13,514,775            | 132,841           | 837,268               | 28,528            | 2,235,221             | 21,030            | 10,410,069            | 74,572            | 9,702                 | 672               |
| 2001 | 13,345,346            | 151,835           | 850,971               | 28,882            | 2,527,099             | 30,269            | 9,936,126             | 84,256            | 9,340                 | 555               |
| 2002 | 12,678,405            | 138,227           | 851,716               | 27,492            | 2,012,386             | 24,436            | 9,783,595             | 77,925            | 9,460                 | 565               |
| 2003 | 12,313,293            | 136,741           | 894,621               | 27,228            | 1,982,192             | 23,755            | 9,404,764             | 77,200            | 10,336                | 620               |
| 2004 | 12,153,735            | 143,775           | 921,223               | 28,459            | 2,033,411             | 24,291            | 9,169,560             | 83,217            | 10,648                | 657               |
| 2005 | 11,801,453            | 153,568           | 950,995               | 31,004            | 2,020,360             | 23,637            | 8,801,840             | 91,665            | 11,100                | 668               |
| 2006 | 12,186,509            | 160,740           | 969,145               | 31,416            | 2,079,961             | 24,110            | 9,108,648             | 97,854            | 11,574                | 709               |
| 2007 | 12,410,876            | 182,590           | 989,294               | 31,596            | 2,090,290             | 24,134            | 9,301,810             | 119,569           | 12,634                | 765               |
| 2008 | 12,990,411            | 168,425           | 1,018,977             | 32,027            | 2,141,872             | 24,740            | 9,798,410             | 104,142           | 14,162                | 873               |
| 2009 | 12,958,910            | 164,575           | 1,020,319             | 31,299            | 2,181,346             | 24,190            | 9,724,316             | 101,114           | 14,868                | 867               |
| 2010 | 12,867,138            | 171,946           | 1,060,941             | 33,012            | 2,273,087             | 25,369            | 9,498,586             | 104,671           | 14,308                | 883               |
| 2011 | 29,455,705            | 416,348           | 1,118,621             | 36,784            | 2,358,758             | 26,260            | 25,943,079            | 343,928           | 14,266                | 981               |
| 2012 | 29,579,409            | 429,928           | 1,149,340             | 42,493            | 2,410,931             | 27,586            | 25,982,998            | 350,217           | 14,538                | 922               |
| 2013 | 30,067,308            | 438,154           | 1,224,820             | 38,531            | 2,476,394             | 27,822            | 26,327,678            | 361,696           | 16,063                | 1,012             |
| 2014 | 30,507,071            | 439,049           | 1,263,472             | 39,500            | 2,526,167             | 28,360            | 26,678,513            | 360,936           | 14,271                | 756               |
| 2015 | 31,029,472            | 464,853           | 1,269,417             | 40,343            | 2,522,900             | 28,028            | 27,193,794            | 385,018           | 15,381                | 757               |
| 2016 | 33,158,711            | 490,071           | 1,449,534             | 43,384            | 3,572,127             | 43,487            | 28,090,714            | 390,541           | 15,423                | 839               |
| 2017 | 33,336,713            | 496,319           | 1,490,319             | 46,295            | 3,604,712             | 43,669            | 28,192,366            | 393,196           | 16,910                | 916               |
| 2018 | 33,595,786            | 504,501           | 1,521,590             | 48,027            | 3,618,352             | 44,166            | 28,409,618            | 399,604           | 14,626                | 822               |
| 2019 | 33,972,470            | 515,247           | 1,570,415             | 54,964            | 3,705,150             | 45,418            | 28,649,339            | 401,575           | 14,585                | 857               |
| 2020 | 29,197,761            | 389,765           | 1,122,872             | 35,942            | 2,677,582             | 12,795            | 25,361,541            | 330,992           | 10,603                | 548               |
| 2021 | 34,144,138            | 445,722           | 1,170,749             | 38,434            | 2,759,948             | 31,901            | 30,168,830            | 362,395           | 11,464                | 639               |
| 2022 | 36,479,707            | 483,287           | 1,362,259             | 46,418            | 3,112,597             | 36,482            | 31,954,532            | 385,788           | 13,991                | 911               |
|      | (Thou.<br>Passengers) | (Mil.<br>Pass-km) | (Thou.<br>Passengers) | (Mil.<br>Pass-km) | (Thou.<br>Passengers) | (Mil.<br>Pass-km) | (Thou.<br>Passengers) | (Mil.<br>Pass-km) | (Thou.<br>Passengers) | (Mil.<br>Pass-km) |
|      | Total                 |                   | Railway1              |                   | Subway                |                   | Roa <sup>2)</sup>     |                   | Shipping              |                   |
|      | Domestic              |                   |                       |                   |                       |                   |                       |                   |                       |                   |

1. 2016년 한국철도통계 개편 결과 반영

2. 2020년 지하철 일부(서울교통공사 1-8호선) 인-킬로 기준 수송실적 미포함

3. 2011년부터 승용차통계 포함

자료: 국토교통부 「교통부문수송실적보고」



## 4-11. Passenger Traffic

| 국내                 |                | 국외                 |                |                    |                |                    |                |      |
|--------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|------|
| 항공                 |                | 합계                 |                | 해운                 |                | 항공                 |                |      |
| (천인)               | (백만인-키로)       | (천인)               | (백만인-키로)       | (천인)               | (백만인-키로)       | (천인)               | (백만인-키로)       |      |
|                    |                |                    |                |                    |                |                    |                |      |
| 11,064             | 4,011          | 9,862              | 36,489         | 236                | 84             | 9,626              | 36,405         | 1990 |
| 12,253             | 4,447          | 10,606             | 38,634         | 335                | 113            | 10,271             | 38,521         | 1991 |
| 14,555             | 5,233          | 11,595             | 45,349         | 338                | 130            | 11,257             | 45,219         | 1992 |
| 15,550             | 5,511          | 11,947             | 47,739         | 296                | 112            | 11,651             | 47,627         | 1993 |
| 18,406             | 6,481          | 13,487             | 54,318         | 411                | 163            | 13,076             | 54,155         | 1994 |
| 21,009             | 7,406          | 14,998             | 61,749         | 395                | 136            | 14,603             | 61,613         | 1995 |
| 23,567             | 8,288          | 16,515             | 70,688         | 523                | 198            | 15,992             | 70,490         | 1996 |
| 25,639             | 9,052          | 17,162             | 74,588         | 564                | 214            | 16,598             | 74,375         | 1997 |
| 19,504             | 6,877          | 14,642             | 55,935         | 538                | 200            | 14,104             | 55,736         | 1998 |
| 21,145             | 7,505          | 17,555             | 65,233         | 805                | 299            | 16,750             | 64,934         | 1999 |
| 22,515             | 8,039          | 20,451             | 76,314         | 999                | 398            | 19,452             | 75,916         | 2000 |
| 21,811             | 7,873          | 21,425             | 77,072         | 1,075              | 401            | 20,351             | 76,671         | 2001 |
| 21,248             | 7,809          | 23,970             | 84,825         | 1,253              | 459            | 22,717             | 84,366         | 2002 |
| 21,380             | 7,938          | 22,839             | 74,829         | 1,380              | 535            | 21,459             | 74,293         | 2003 |
| 18,893             | 7,151          | 28,753             | 90,146         | 1,822              | 714            | 26,931             | 89,432         | 2004 |
| 17,158             | 6,594          | 31,789             | 95,927         | 2,105              | 857            | 29,684             | 95,071         | 2005 |
| 17,181             | 6,651          | 35,092             | 105,132        | 2,385              | 993            | 32,708             | 104,140        | 2006 |
| 16,848             | 6,526          | 39,417             | 115,801        | 2,550              | 1,019          | 36,867             | 114,782        | 2007 |
| 16,990             | 6,643          | 37,876             | 115,950        | 2,534              | 1,030          | 35,341             | 114,920        | 2008 |
| 18,061             | 7,105          | 35,603             | 110,048        | 2,089              | 845            | 33,514             | 109,203        | 2009 |
| 20,216             | 8,011          | 42,822             | 128,865        | 2,761              | 1,104          | 40,061             | 127,760        | 2010 |
| 20,981             | 8,395          | 45,308             | 141,187        | 2,660              | 1,188          | 42,649             | 139,999        | 2011 |
| 21,602             | 8,710          | 50,583             | 155,188        | 2,881              | 1,163          | 47,703             | 154,025        | 2012 |
| 22,353             | 9,093          | 53,724             | 163,870        | 2,737              | -              | 50,987             | 163,870        | 2013 |
| 24,648             | 9,497          | 59,425             | 173,643        | 2,646              | -              | 56,779             | 173,643        | 2014 |
| 27,980             | 10,707         | 64,051             | 187,737        | 2,617              | -              | 61,434             | 187,737        | 2015 |
| 30,913             | 11,820         | 75,778             | 212,261        | 2,777              | -              | 73,001             | 212,261        | 2016 |
| 32,406             | 12,243         | 79,684             | 231,398        | 2,728              | -              | 76,956             | 231,398        | 2017 |
| 31,601             | 11,882         | 88,905             | 251,747        | 2,980              | -              | 85,925             | 251,747        | 2018 |
| 32,981             | 12,433         | 93,355             | 269,322        | 2,969              | -              | 90,386             | 269,322        | 2019 |
| 25,164             | 9,488          | 14,409             | 52,826         | 169                | -              | 14,240             | 52,826         | 2020 |
| 33,147             | 12,353         | 3,209              | 19,426         | -                  | -              | 3,209              | 19,426         | 2021 |
| 36,328             | 13,687         | 19,500             | 93,186         | -                  | -              | 19,500             | 93,186         | 2022 |
| (Thou. Passengers) | (Mil. Pass-km) | (Thou. Passengers) | (Mil. Pass-km) | (Thou. Passengers) | (Mil. Pass-km) | (Thou. Passengers) | (Mil. Pass-km) |      |
| Aviation           |                | Total              |                | Shipping           |                | Aviation           |                |      |
| Domestic           |                | International      |                |                    |                |                    |                |      |

1. Reflecting the Result of the 2016 Korea Railway Statistics Revision.

2. Not including part of the subway(Seoul Metro Lines 1~8) transport performance on an pass-km basis in 2020.

3. Including passenger car statistics since 2011.

Source: Minister of Land, Infrastructure and Transport 「Performance of Transport Sector」

## 4-12. 화물 수송 실적

|      | 국내           |            |              |            |                 |            |              |            |
|------|--------------|------------|--------------|------------|-----------------|------------|--------------|------------|
|      | 합계           |            | 철도           |            | 공로 <sup>1</sup> |            | 해운           |            |
|      | 수송톤수<br>(천톤) | 분담율<br>(%) | 수송톤수<br>(천톤) | 분담율<br>(%) | 수송톤수<br>(천톤)    | 분담율<br>(%) | 수송톤수<br>(천톤) | 분담율<br>(%) |
| 2000 | 673,835      | 100.0      | 45,240       | 6.7        | 496,174         | 73.6       | 131,987      | 19.6       |
| 2001 | 721,823      | 100.0      | 45,122       | 6.3        | 535,725         | 74.2       | 140,544      | 19.5       |
| 2002 | 772,444      | 100.0      | 45,733       | 5.9        | 584,573         | 75.7       | 141,706      | 18.3       |
| 2003 | 758,316      | 100.0      | 47,110       | 6.2        | 565,456         | 74.6       | 145,327      | 19.2       |
| 2004 | 679,413      | 100.0      | 44,512       | 6.6        | 518,856         | 76.4       | 115,636      | 17.0       |
| 2005 | 687,451      | 100.0      | 41,669       | 6.1        | 526,000         | 76.5       | 119,410      | 17.4       |
| 2006 | 690,778      | 100.0      | 43,341       | 6.3        | 529,278         | 76.5       | 117,805      | 17.1       |
| 2007 | 715,191      | 100.0      | 44,531       | 6.2        | 550,264         | 76.9       | 120,079      | 16.8       |
| 2008 | 729,826      | 100.0      | 46,806       | 6.4        | 555,801         | 76.2       | 126,964      | 17.4       |
| 2009 | 766,679      | 100.0      | 38,898       | 5.1        | 607,480         | 79.2       | 120,032      | 15.7       |
| 2010 | 783,234      | 100.0      | 39,217       | 5.0        | 619,530         | 79.1       | 124,225      | 15.9       |
| 2011 | 1,605,507    | 100.0      | 40,012       | 2.5        | 1,439,625       | 89.6       | 125,588      | 7.8        |
| 2012 | 1,714,141    | 100.0      | 40,309       | 2.4        | 1,554,510       | 90.7       | 119,057      | 6.9        |
| 2013 | 1,704,343    | 100.0      | 39,822       | 2.3        | 1,546,407       | 90.7       | 117,860      | 6.9        |
| 2014 | 1,668,283    | 100.0      | 37,379       | 2.2        | 1,512,700       | 90.7       | 117,920      | 7.1        |
| 2015 | 1,927,283    | 100.0      | 37,094       | 1.9        | 1,761,291       | 91.4       | 128,611      | 6.7        |
| 2016 | 1,975,641    | 100.0      | 32,555       | 1.6        | 1,799,565       | 91.1       | 143,227      | 7.2        |
| 2017 | 2,028,558    | 100.0      | 31,670       | 1.6        | 1,854,011       | 91.4       | 142,587      | 7.0        |
| 2018 | 2,047,201    | 100.0      | 30,915       | 1.5        | 1,895,686       | 92.6       | 120,327      | 5.9        |
| 2019 | 1,983,572    | 100.0      | 28,664       | 1.4        | 1,847,241       | 93.1       | 107,408      | 5.4        |
| 2020 | 1,926,888    | 100.0      | 26,277       | 1.4        | 1,788,917       | 92.8       | 111,513      | 5.8        |
| 2021 | 1,990,292    | 100.0      | 26,780       | 1.3        | 1,848,182       | 92.9       | 115,125      | 5.8        |
| 2022 | 1,931,447    | 100.0      | 23,623       | 1.2        | 1,785,562       | 92.4       | 122,032      | 6.3        |
|      | (Thou. Tons) | (%)        | (Thou. Tons) | (%)        | (Thou. Tons)    | (%)        | (Thou. Tons) | (%)        |
|      | Total        |            | Railway      |            | Road            |            | Shipping     |            |
|      | Domestic     |            |              |            |                 |            |              |            |

1. 2011년부터 비영업용 화물차 통계 포함. 2015년부터 영업용 화물차 통계작성방식 변경

자료: 국토교통부 「교통부문수송실적보고」



## 4-12. Freight Traffic

| 국내           |            | 국제            |            |              |            |              |            |      |
|--------------|------------|---------------|------------|--------------|------------|--------------|------------|------|
| 항공           |            | 합계            |            | 해운           |            | 항공           |            |      |
| 수송톤수<br>(천톤) | 분담율<br>(%) | 수송톤수<br>(천톤)  | 분담율<br>(%) | 수송톤수<br>(천톤) | 분담율<br>(%) | 수송톤수<br>(천톤) | 분담율<br>(%) |      |
| 434          | 0.1        | 571,549       | 100.0      | 569,599      | 99.7       | 1,949        | 0.3        | 2000 |
| 431          | 0.1        | 612,774       | 100.0      | 610,910      | 99.7       | 1,864        | 0.3        | 2001 |
| 433          | 0.1        | 637,622       | 100.0      | 635,545      | 99.7       | 2,077        | 0.3        | 2002 |
| 423          | 0.1        | 669,817       | 100.0      | 667,608      | 99.7       | 2,209        | 0.3        | 2003 |
| 409          | 0.1        | 735,946       | 100.0      | 733,377      | 99.7       | 2,569        | 0.3        | 2004 |
| 372          | 0.1        | 757,553       | 100.0      | 754,936      | 99.7       | 2,617        | 0.3        | 2005 |
| 355          | 0.1        | 812,683       | 100.0      | 809,830      | 99.6       | 2,854        | 0.4        | 2006 |
| 316          | 0.1        | 865,662       | 100.0      | 862,523      | 99.6       | 3,138        | 0.4        | 2007 |
| 254          | 0.1        | 897,691       | 100.0      | 894,693      | 99.7       | 2,997        | 0.3        | 2008 |
| 269          | 0.1        | 851,171       | 100.0      | 848,299      | 99.7       | 2,872        | 0.3        | 2009 |
| 262          | 0.1        | 969,520       | 100.0      | 966,193      | 99.7       | 3,327        | 0.3        | 2010 |
| 281          | 0.1        | 1,072,804     | 100.0      | 1,069,566    | 99.7       | 3,238        | 0.3        | 2011 |
| 265          | 0.1        | 1,111,747     | 100.0      | 1,108,538    | 99.7       | 3,209        | 0.3        | 2012 |
| 253          | 0.1        | 1,126,451     | 100.0      | 1,123,205    | 99.7       | 3,246        | 0.3        | 2013 |
| 283          | 0.1        | 1,188,052     | 100.0      | 1,184,641    | 99.7       | 3,411        | 0.3        | 2014 |
| 288          | 0.1        | 1,220,300     | 100.0      | 1,216,782    | 99.7       | 3,519        | 0.3        | 2015 |
| 293          | 0.1        | 1,246,378     | 100.0      | 1,242,597    | 99.7       | 3,781        | 0.3        | 2016 |
| 290          | 0.0        | 1,316,521     | 100.0      | 1,312,489    | 99.7       | 4,032        | 0.3        | 2017 |
| 273          | 0.0        | 1,410,094     | 100.0      | 1,405,925    | 99.7       | 4,169        | 0.3        | 2018 |
| 259          | 0.0        | 1,433,166     | 100.0      | 1,429,150    | 99.7       | 4,016        | 0.3        | 2019 |
| 182          | 0.0        | 1,279,299     | 100.0      | 1,276,228    | 99.8       | 3,071        | 0.2        | 2020 |
| 205          | 0.0        | 1,355,995     | 100.0      | 1,352,575    | 99.7       | 3,420        | 0.3        | 2021 |
| 229          | 0.0        | 1,310,963     | 100.0      | 1,307,642    | 99.7       | 3,320        | 0.3        | 2022 |
| (Thou. Tons) | (%)        | (Thou. Tons)  | (%)        | (Thou. Tons) | (%)        | (Thou. Tons) | (%)        |      |
| Aviation     |            | Total         |            | Shipping     |            | Aviation     |            |      |
|              |            | International |            |              |            |              |            |      |

1. Including non-commercial freight vehicle statistics since 2011. Change in commercial freight vehicle statistical reporting method since 2015.

Source: Minister of Land, Infrastructure and Transport 「Performance of Transport Sector」

## 4-13. 소비자 물가지수

2020=100.0

|      | 총지수        | 식료품·비주류음료                     | 주류 및 담배                          | 의류 및 신발             | 주택·수도·전기 및 연료          |                                | 가정용품 및 가사 서비스                     | 보건     |
|------|------------|-------------------------------|----------------------------------|---------------------|------------------------|--------------------------------|-----------------------------------|--------|
|      |            |                               |                                  |                     |                        | 광열                             |                                   |        |
| 1990 | 38.5       | 28.2                          | 26.2                             | 46.8                | 38.2                   | 35.3                           | 56.3                              | 46.1   |
| 1991 | 42.1       | 31.3                          | 27.1                             | 49.4                | 42.4                   | 38.1                           | 59.4                              | 49.1   |
| 1992 | 44.7       | 32.9                          | 28.5                             | 52.4                | 45.5                   | 40.7                           | 61.3                              | 50.6   |
| 1993 | 46.8       | 33.9                          | 30.2                             | 54.2                | 47.9                   | 42.2                           | 63.3                              | 52.0   |
| 1994 | 49.8       | 37.4                          | 33.1                             | 55.5                | 49.8                   | 43.1                           | 65.5                              | 53.9   |
| 1995 | 52.0       | 38.5                          | 33.9                             | 56.4                | 52.0                   | 44.0                           | 66.7                              | 56.8   |
| 1996 | 54.6       | 39.7                          | 37.0                             | 57.1                | 54.4                   | 47.3                           | 68.0                              | 59.5   |
| 1997 | 57.0       | 41.3                          | 39.4                             | 58.0                | 57.2                   | 52.3                           | 68.3                              | 61.9   |
| 1998 | 61.3       | 45.4                          | 41.9                             | 60.4                | 61.4                   | 65.5                           | 72.3                              | 65.2   |
| 1999 | 61.8       | 47.5                          | 44.6                             | 61.4                | 59.5                   | 62.5                           | 71.3                              | 66.1   |
| 2000 | 63.2       | 47.9                          | 45.0                             | 62.3                | 61.7                   | 70.7                           | 69.5                              | 71.0   |
| 2001 | 65.7       | 50.3                          | 47.2                             | 64.2                | 65.4                   | 78.0                           | 70.9                              | 79.1   |
| 2002 | 67.5       | 52.8                          | 50.8                             | 66.2                | 67.2                   | 73.8                           | 71.5                              | 78.6   |
| 2003 | 69.9       | 55.2                          | 52.2                             | 68.5                | 70.0                   | 77.5                           | 73.0                              | 80.4   |
| 2004 | 72.4       | 59.7                          | 52.8                             | 68.7                | 72.3                   | 81.6                           | 73.5                              | 81.6   |
| 2005 | 74.4       | 61.5                          | 60.6                             | 69.4                | 73.7                   | 86.6                           | 73.9                              | 83.4   |
| 2006 | 76.1       | 61.8                          | 60.5                             | 71.3                | 75.8                   | 93.3                           | 74.1                              | 85.0   |
| 2007 | 78.0       | 63.4                          | 60.7                             | 73.2                | 77.5                   | 95.6                           | 76.0                              | 86.5   |
| 2008 | 81.7       | 66.5                          | 61.0                             | 75.0                | 80.9                   | 103.6                          | 79.4                              | 88.1   |
| 2009 | 83.9       | 71.6                          | 61.7                             | 78.8                | 81.8                   | 102.9                          | 82.9                              | 90.1   |
| 2010 | 86.4       | 76.2                          | 62.0                             | 81.2                | 83.7                   | 107.0                          | 83.2                              | 91.6   |
| 2011 | 89.9       | 82.4                          | 62.5                             | 83.9                | 87.5                   | 113.9                          | 86.3                              | 93.3   |
| 2012 | 91.8       | 85.6                          | 63.4                             | 87.9                | 91.5                   | 119.7                          | 88.7                              | 94.1   |
| 2013 | 93.0       | 86.4                          | 64.5                             | 90.4                | 94.7                   | 124.9                          | 89.0                              | 94.4   |
| 2014 | 94.2       | 86.6                          | 64.4                             | 94.1                | 97.5                   | 129.5                          | 90.9                              | 95.1   |
| 2015 | 94.9       | 88.0                          | 96.7                             | 95.3                | 96.8                   | 117.1                          | 93.2                              | 96.3   |
| 2016 | 95.8       | 90.1                          | 97.3                             | 97.0                | 96.0                   | 104.3                          | 94.7                              | 97.2   |
| 2017 | 97.6       | 93.1                          | 98.8                             | 98.1                | 97.7                   | 103.0                          | 95.7                              | 98.1   |
| 2018 | 99.1       | 95.7                          | 99.1                             | 99.2                | 98.4                   | 100.2                          | 97.9                              | 98.1   |
| 2019 | 99.5       | 95.8                          | 99.7                             | 99.3                | 99.5                   | 101.9                          | 100.0                             | 98.5   |
| 2020 | 100.0      | 100.0                         | 100.0                            | 100.0               | 100.0                  | 100.0                          | 100.0                             | 100.0  |
| 2021 | 102.5      | 105.9                         | 100.4                            | 100.6               | 101.6                  | 98.6                           | 101.9                             | 99.9   |
| 2022 | 107.7      | 112.2                         | 102.6                            | 103.7               | 107.2                  | 115.7                          | 106.8                             | 100.8  |
| 2023 | 111.6      | 118.3                         | 103.6                            | 110.7               | 112.6                  | 138.7                          | 112.6                             | 102.4  |
|      | Total Item | Food & Nonalcoholic Beverages | Alcoholic Beverages & Cigarettes | Clothing & Footwear | Housing, Water & Fuels | Electricity, Gas & Other Fuels | Furnishings & Household Equipment | Health |

자료: 통계청





# 4-13. Consumer Price Indices

2020=100.0

| 교통             | 교통수단 이용료      | 통신            | 오락 및 문화              | 교육        | 음식 및 숙박              | 기타상품 및 서비스                     |      |
|----------------|---------------|---------------|----------------------|-----------|----------------------|--------------------------------|------|
|                |               |               |                      |           |                      |                                |      |
| 32.0           | 16.6          | 160.9         | 75.3                 | 26.0      | 33.6                 | 38.3                           | 1990 |
| 35.5           | 19.3          | 155.2         | 78.1                 | 28.8      | 40.2                 | 40.5                           | 1991 |
| 38.8           | 22.0          | 154.9         | 80.0                 | 31.8      | 44.2                 | 42.1                           | 1992 |
| 42.2           | 25.4          | 154.0         | 83.5                 | 35.1      | 46.7                 | 43.8                           | 1993 |
| 45.4           | 29.3          | 150.1         | 85.6                 | 38.5      | 49.9                 | 45.4                           | 1994 |
| 48.2           | 32.2          | 146.7         | 88.7                 | 43.6      | 52.6                 | 46.9                           | 1995 |
| 51.8           | 35.4          | 146.0         | 92.1                 | 48.5      | 55.6                 | 49.6                           | 1996 |
| 56.8           | 37.7          | 141.8         | 92.9                 | 52.0      | 57.5                 | 51.9                           | 1997 |
| 66.3           | 44.6          | 141.5         | 96.1                 | 53.9      | 60.4                 | 56.6                           | 1998 |
| 67.9           | 45.7          | 140.8         | 96.1                 | 54.6      | 59.8                 | 55.4                           | 1999 |
| 70.9           | 48.1          | 137.6         | 95.1                 | 57.3      | 60.4                 | 56.1                           | 2000 |
| 73.7           | 51.6          | 133.2         | 94.7                 | 59.9      | 61.4                 | 58.3                           | 2001 |
| 74.4           | 53.5          | 127.3         | 95.3                 | 63.3      | 63.5                 | 60.2                           | 2002 |
| 77.4           | 57.6          | 120.7         | 95.7                 | 67.0      | 65.8                 | 61.7                           | 2003 |
| 80.1           | 60.6          | 118.8         | 95.6                 | 70.7      | 68.3                 | 63.0                           | 2004 |
| 84.1           | 65.5          | 116.6         | 95.7                 | 73.7      | 69.9                 | 63.9                           | 2005 |
| 88.0           | 67.6          | 115.1         | 93.5                 | 77.3      | 71.3                 | 67.2                           | 2006 |
| 91.2           | 72.3          | 112.8         | 91.8                 | 81.9      | 72.6                 | 70.5                           | 2007 |
| 99.2           | 73.9          | 111.2         | 93.2                 | 86.4      | 76.1                 | 76.9                           | 2008 |
| 95.7           | 75.2          | 111.0         | 95.4                 | 88.5      | 79.0                 | 82.1                           | 2009 |
| 100.3          | 76.6          | 110.0         | 96.2                 | 90.5      | 80.9                 | 85.0                           | 2010 |
| 107.4          | 79.0          | 108.2         | 97.7                 | 92.1      | 84.3                 | 87.8                           | 2011 |
| 110.9          | 84.1          | 105.4         | 98.0                 | 93.4      | 85.3                 | 84.9                           | 2012 |
| 110.3          | 86.5          | 105.3         | 99.0                 | 94.5      | 86.7                 | 85.3                           | 2013 |
| 108.5          | 88.2          | 105.2         | 99.4                 | 95.9      | 87.9                 | 87.9                           | 2014 |
| 100.0          | 90.8          | 105.0         | 98.9                 | 97.5      | 90.0                 | 90.3                           | 2015 |
| 97.8           | 93.4          | 105.1         | 100.7                | 99.1      | 92.2                 | 93.4                           | 2016 |
| 101.3          | 94.4          | 105.4         | 100.8                | 100.3     | 94.4                 | 96.0                           | 2017 |
| 103.7          | 95.2          | 104.5         | 101.3                | 101.6     | 97.3                 | 96.5                           | 2018 |
| 101.9          | 97.9          | 102.1         | 101.0                | 102.2     | 99.1                 | 98.1                           | 2019 |
| 100.0          | 100.0         | 100.0         | 100.0                | 100.0     | 100.0                | 100.0                          | 2020 |
| 106.3          | 101.6         | 99.1          | 100.4                | 100.9     | 102.7                | 102.0                          | 2021 |
| 116.7          | 103.8         | 100.0         | 103.3                | 102.2     | 110.5                | 108.3                          | 2022 |
| 112.7          | 107.3         | 101.0         | 107.1                | 104.2     | 117.2                | 114.6                          | 2023 |
| Transportation | Service Costs | Communication | Culture & Recreation | Education | Foods & Accomodation | Miscellaneous Goods & Services |      |

Source: Statistics Korea

## 4-14. 생산자 물가지수

2020=100.0

|      | 총지수       | 상품    | 농림수산물                                  | 광산품             | 공산품                    | 전력, 가스 및 수도                        | 서비스      | 운송 서비스         | 음식점 및 숙박서비스                   |
|------|-----------|-------|----------------------------------------|-----------------|------------------------|------------------------------------|----------|----------------|-------------------------------|
| 1990 | 54.2      | 60.7  | 33.2                                   | 34.9            | 60.7                   | 42.7                               | -        | -              | -                             |
| 1991 | 56.7      | 63.1  | 37.1                                   | 38.0            | 63.1                   | 43.3                               | -        | -              | -                             |
| 1992 | 58.0      | 64.2  | 38.4                                   | 38.5            | 64.2                   | 46.3                               | -        | -              | -                             |
| 1993 | 58.9      | 65.1  | 39.0                                   | 38.5            | 65.1                   | 46.9                               | -        | -              | -                             |
| 1994 | 60.5      | 66.1  | 43.8                                   | 39.5            | 66.1                   | 47.1                               | -        | -              | -                             |
| 1995 | 63.3      | 69.3  | 45.4                                   | 39.4            | 69.3                   | 48.8                               | 59.1     | 50.0           | 53.4                          |
| 1996 | 65.3      | 70.8  | 46.2                                   | 39.8            | 70.8                   | 51.0                               | 63.1     | 52.9           | 59.3                          |
| 1997 | 67.8      | 73.1  | 47.0                                   | 40.5            | 73.1                   | 53.5                               | 66.6     | 55.3           | 62.8                          |
| 1998 | 76.1      | 83.9  | 48.8                                   | 43.7            | 83.9                   | 59.4                               | 71.9     | 64.1           | 64.2                          |
| 1999 | 74.5      | 81.0  | 53.8                                   | 44.3            | 81.0                   | 58.9                               | 70.7     | 63.9           | 64.9                          |
| 2000 | 76.1      | 82.9  | 52.4                                   | 45.3            | 82.9                   | 64.0                               | 71.8     | 66.1           | 67.8                          |
| 2001 | 75.7      | 81.1  | 54.3                                   | 45.8            | 81.1                   | 68.5                               | 72.7     | 67.7           | 72.4                          |
| 2002 | 75.5      | 79.7  | 55.7                                   | 49.6            | 79.7                   | 66.7                               | 74.3     | 70.0           | 76.7                          |
| 2003 | 77.1      | 81.1  | 58.9                                   | 50.2            | 81.1                   | 68.6                               | 76.0     | 72.7           | 76.7                          |
| 2004 | 81.8      | 87.3  | 66.0                                   | 54.1            | 87.3                   | 69.3                               | 78.2     | 76.9           | 73.8                          |
| 2005 | 83.5      | 90.1  | 63.6                                   | 57.8            | 90.1                   | 69.8                               | 79.3     | 77.9           | 73.4                          |
| 2006 | 84.3      | 90.1  | 62.0                                   | 56.5            | 90.1                   | 74.3                               | 81.1     | 79.9           | 73.8                          |
| 2007 | 85.5      | 90.9  | 63.7                                   | 60.4            | 90.9                   | 76.7                               | 83.0     | 82.0           | 74.0                          |
| 2008 | 92.8      | 101.9 | 64.4                                   | 65.9            | 101.9                  | 79.7                               | 85.1     | 87.0           | 74.9                          |
| 2009 | 92.6      | 100.1 | 70.0                                   | 72.2            | 100.1                  | 83.8                               | 86.0     | 88.5           | 75.8                          |
| 2010 | 96.2      | 104.4 | 76.3                                   | 80.1            | 104.4                  | 86.8                               | 87.5     | 89.4           | 77.4                          |
| 2011 | 102.6     | 113.8 | 82.0                                   | 81.8            | 113.8                  | 91.8                               | 89.7     | 90.4           | 82.5                          |
| 2012 | 103.3     | 113.3 | 82.7                                   | 84.6            | 113.3                  | 98.3                               | 91.1     | 92.7           | 84.6                          |
| 2013 | 101.7     | 109.9 | 77.7                                   | 86.6            | 109.9                  | 103.6                              | 91.3     | 93.3           | 86.0                          |
| 2014 | 101.1     | 107.6 | 78.2                                   | 88.5            | 107.6                  | 109.1                              | 92.7     | 94.8           | 87.6                          |
| 2015 | 97.1      | 100.4 | 80.0                                   | 88.8            | 100.4                  | 101.9                              | 93.8     | 94.3           | 89.4                          |
| 2016 | 95.3      | 96.8  | 84.7                                   | 92.3            | 96.8                   | 96.1                               | 94.8     | 94.6           | 91.4                          |
| 2017 | 98.6      | 101.5 | 90.2                                   | 96.9            | 101.5                  | 97.5                               | 96.1     | 95.6           | 93.5                          |
| 2018 | 100.4     | 103.7 | 93.4                                   | 101.6           | 103.7                  | 98.0                               | 97.5     | 97.0           | 96.5                          |
| 2019 | 100.5     | 102.6 | 91.3                                   | 102.3           | 102.6                  | 100.3                              | 98.7     | 98.9           | 98.9                          |
| 2020 | 100.0     | 100.0 | 100.0                                  | 100.0           | 100.0                  | 100.0                              | 100.0    | 100.0          | 100.0                         |
| 2021 | 106.4     | 110.4 | 108.1                                  | 106.5           | 110.4                  | 100.6                              | 102.3    | 103.2          | 102.5                         |
| 2022 | 115.3     | 123.3 | 109.3                                  | 118.8           | 123.3                  | 121.6                              | 105.5    | 109.9          | 110.3                         |
| 2023 | 117.1     | 122.2 | 112.6                                  | 131.0           | 122.2                  | 140.9                              | 108.1    | 110.7          | 117.2                         |
|      | All Items | Goods | Agricultural, Forest & Marine Products | Mining Products | Manufacturing Products | Electric Power, Gas & Water Supply | Services | Transportation | Accommodation & Food Services |

자료: 한국은행



# 4-14. Producer Price Indices

2020=100.0

| 정보통신 및<br>방송서비스                            | 금융 및<br>보험서비스                          | 부동산서비스                    | 전문, 과학 및<br>기술서비스                                          | 사업<br>지원서비스          | 교육서비스     | 예술, 스포츠 및<br>여가관련서비스                                | 기타<br>서비스         |      |
|--------------------------------------------|----------------------------------------|---------------------------|------------------------------------------------------------|----------------------|-----------|-----------------------------------------------------|-------------------|------|
| -                                          | -                                      | -                         | -                                                          | -                    | -         | -                                                   | -                 | 1990 |
| -                                          | -                                      | -                         | -                                                          | -                    | -         | -                                                   | -                 | 1991 |
| -                                          | -                                      | -                         | -                                                          | -                    | -         | -                                                   | -                 | 1992 |
| -                                          | -                                      | -                         | -                                                          | -                    | -         | -                                                   | -                 | 1993 |
| -                                          | -                                      | -                         | -                                                          | -                    | -         | -                                                   | -                 | 1994 |
| 84.5                                       | 92.9                                   | 65.4                      | 33.6                                                       | 73.8                 | -         | -                                                   | -                 | 1995 |
| 88.2                                       | 94.0                                   | 68.5                      | 40.2                                                       | 73.7                 | -         | -                                                   | -                 | 1996 |
| 90.8                                       | 93.4                                   | 71.7                      | 45.3                                                       | 78.6                 | -         | -                                                   | -                 | 1997 |
| 93.3                                       | 90.6                                   | 72.4                      | 48.5                                                       | 92.4                 | -         | -                                                   | -                 | 1998 |
| 94.5                                       | 97.7                                   | 70.4                      | 47.6                                                       | 80.8                 | -         | -                                                   | -                 | 1999 |
| 95.5                                       | 97.5                                   | 70.3                      | 49.2                                                       | 78.1                 | -         | -                                                   | -                 | 2000 |
| 96.3                                       | 93.3                                   | 71.4                      | 51.3                                                       | 75.3                 | -         | -                                                   | -                 | 2001 |
| 96.6                                       | 96.2                                   | 73.1                      | 54.2                                                       | 73.4                 | -         | -                                                   | -                 | 2002 |
| 96.1                                       | 96.5                                   | 75.5                      | 57.3                                                       | 71.9                 | -         | -                                                   | -                 | 2003 |
| 95.4                                       | 101.8                                  | 77.2                      | 60.9                                                       | 71.8                 | -         | -                                                   | -                 | 2004 |
| 95.4                                       | 107.0                                  | 77.8                      | 63.1                                                       | 70.9                 | -         | -                                                   | -                 | 2005 |
| 96.3                                       | 114.5                                  | 78.7                      | 65.2                                                       | 72.6                 | -         | -                                                   | -                 | 2006 |
| 96.8                                       | 122.5                                  | 80.4                      | 66.9                                                       | 74.0                 | -         | -                                                   | -                 | 2007 |
| 97.3                                       | 113.4                                  | 82.8                      | 73.8                                                       | 76.5                 | -         | -                                                   | -                 | 2008 |
| 98.1                                       | 108.2                                  | 84.9                      | 76.1                                                       | 77.2                 | -         | -                                                   | -                 | 2009 |
| 98.4                                       | 111.9                                  | 86.0                      | 80.5                                                       | 78.5                 | 77.5      | 85.9                                                | 79.7              | 2010 |
| 98.4                                       | 114.8                                  | 87.9                      | 83.1                                                       | 80.6                 | 80.2      | 87.7                                                | 82.7              | 2011 |
| 98.0                                       | 111.5                                  | 89.9                      | 85.0                                                       | 82.8                 | 83.7      | 88.6                                                | 85.2              | 2012 |
| 97.2                                       | 105.0                                  | 91.6                      | 85.0                                                       | 83.8                 | 86.9      | 89.9                                                | 86.7              | 2013 |
| 98.2                                       | 106.1                                  | 93.0                      | 85.2                                                       | 85.2                 | 88.8      | 91.7                                                | 88.7              | 2014 |
| 99.4                                       | 106.8                                  | 94.4                      | 87.3                                                       | 87.3                 | 90.7      | 93.0                                                | 90.3              | 2015 |
| 99.9                                       | 104.3                                  | 95.9                      | 89.7                                                       | 88.8                 | 92.6      | 94.5                                                | 91.8              | 2016 |
| 99.9                                       | 105.1                                  | 97.3                      | 92.6                                                       | 90.4                 | 93.9      | 96.3                                                | 94.0              | 2017 |
| 99.0                                       | 103.6                                  | 98.2                      | 94.4                                                       | 94.3                 | 96.2      | 98.9                                                | 97.0              | 2018 |
| 98.6                                       | 99.6                                   | 99.0                      | 97.8                                                       | 97.1                 | 98.2      | 100.0                                               | 98.7              | 2019 |
| 100.0                                      | 100.0                                  | 100.0                     | 100.0                                                      | 100.0                | 100.0     | 100.0                                               | 100.0             | 2020 |
| 101.3                                      | 106.3                                  | 101.0                     | 103.1                                                      | 101.6                | 101.6     | 101.1                                               | 101.9             | 2021 |
| 102.1                                      | 99.9                                   | 102.0                     | 106.5                                                      | 105.9                | 104.1     | 106.0                                               | 106.7             | 2022 |
| 103.5                                      | 99.2                                   | 103.0                     | 108.9                                                      | 108.7                | 107.1     | 110.0                                               | 113.7             | 2023 |
| Telecom<br>munication<br>&<br>Broadcasting | Financial &<br>Insurance<br>Activities | Real Estate<br>Activities | Professional,<br>Scientific and<br>Technical<br>Activities | Business<br>Services | Education | Cultural<br>Activities &<br>Amusement<br>Activities | Other<br>Services |      |

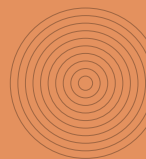
Source: Statistics Korea



# 05

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기타  
Others



## 05 기타

- 5-1. 에너지사용량 신고업체 에너지절약실적
- 5-2. 에너지 사용량 신고업체수
- 5-3. 에너지 사용량 신고업체 에너지 사용현황
- 5-4. 에너지 및 자원사업 특별회계 자금지원 실적
- 5-5. 해외자원개발 현황
- 5-6. 유류관련 세율 변화
- 5-7. 석유수입/판매부과금 개요(2024)

## 05 Others



- 5-1. Energy Savings of Energy usage reporting entities
- 5-2. Number of Companies for Energy Consumption Return
- 5-3. Energy Consumption in Companies for Energy Consumption Return(Final Energy)
- 5-4. Financial Support of the Special Accounts for Energy and Resources-Related Projects
- 5-5. Overseas Resources Development
- 5-6. Oil-Related Tax Rate
- 5-7. Summary of Imports and Sales Charges on Petroleum(2024)

## 5-1. 에너지사용량 신고업체 에너지절약실적

단위: 천 toe

|      |         | 산업       |          |            |           |         |        |                 |
|------|---------|----------|----------|------------|-----------|---------|--------|-----------------|
|      |         | 식품       | 섬유       | 제지·목재      | 화학        | 요업      | 금속     | 에너지 산업          |
| 2021 | 사용량     | 1,373    | 263      | 1,227      | 26,166    | 5,043   | 38,813 | 30,453          |
|      | 절감량     | 23       | 3        | 33         | 452       | 330     | 314    | 287             |
|      | 절감율(%)  | 1.7      | 1.2      | 2.7        | 1.7       | 6.1     | 0.8    | 0.9             |
|      | 투자비(억원) | 299      | 44       | 193        | 1,747     | 1,636   | 1,888  | 1,425           |
|      | 용자      | 1        | 7        | 41         | 153       | 687     | 290    | 172             |
|      | 자체      | 298      | 37       | 153        | 1,594     | 949     | 1,598  | 1,253           |
| 2022 | 사용량     | 1,398    | 232      | 1,202      | 25,743    | 4,951   | 36,636 | 31,604          |
|      | 절감량     | 57       | 6        | 25         | 404       | 309     | 370    | 302             |
|      | 절감율(%)  | 3.9      | 2.6      | 2.0        | 1.5       | 5.9     | 1.0    | 0.9             |
|      | 투자비(억원) | 404      | 60       | 198        | 2,040     | 1,381   | 2,622  | 1,593           |
|      | 용자      | 4        | 17       | 20         | 97        | 713     | 275    | 174             |
|      | 자체      | 400      | 42       | 178        | 1,943     | 667     | 2,347  | 1,419           |
| 2023 | 사용량     | 1,372    | 198      | 1,171      | 25,432    | 5,072   | 38,387 | 32,943          |
|      | 절감량     | 45       | 7        | 24         | 393       | 297     | 519    | 232             |
|      | 절감율(%)  | 3.2      | 3.4      | 2.0        | 1.5       | 5.5     | 1.3    | 0.7             |
|      | 투자비(억원) | 495      | 61       | 260        | 2,586     | 1,901   | 3,710  | 1,911           |
|      | 용자      | 37       | 27       | 51         | 110       | 756     | 294    | 191             |
|      | 자체      | 458      | 34       | 209        | 2,477     | 1,145   | 3,416  | 1,721           |
|      |         | Foods    | Textiles | Paper·Wood | Chemicals | Ceramic | Metal  | Energy Industry |
|      |         | Industry |          |            |           |         |        |                 |

자료: 한국에너지공단 「2023년 에너지사용량통계」



## 5-1. Energy Savings of Energy usage reporting entities

Unit: Thousand toe

|        |           | 건물       | 수송        | 합계      |                          |      |
|--------|-----------|----------|-----------|---------|--------------------------|------|
| 기타     | 소계        |          |           |         |                          |      |
| 895    | 104,233   | 2,948    | 2,841     | 110,022 | Consumption              | 2021 |
| 34     | 1,476     | 43       | 13        | 1,532   | Reduction                |      |
| 3.7    | 1.4       | 1.4      | 0.5       | 1.4     | Reduction Rate(%)        |      |
| 501    | 7,733     | 1,513    | 150       | 9,396   | Investment(100 Mil. KRW) |      |
| 4      | 1,354     | 137      | 2         | 1,494   | Loan                     |      |
| 497    | 6,379     | 1,376    | 148       | 7,902   | Own                      |      |
| 926    | 102,691   | 3,179    | 2,879     | 108,749 | Consumption              | 2022 |
| 22     | 1,496     | 51       | 9         | 1,556   | Reduction                |      |
| 2.4    | 1.4       | 1.6      | 0.3       | 1.4     | Reduction Rate(%)        |      |
| 497    | 8,794     | 1,321    | 102       | 10,217  | Investment(100 Mil. KRW) |      |
| 16     | 1,317     | 201      | 13        | 1,532   | Loan                     |      |
| 482    | 7,477     | 1,119    | 89        | 8,685   | Own                      |      |
| 921    | 105,495   | 3,239    | 2,910     | 111,645 | Consumption              | 2023 |
| 25     | 1,541     | 48       | 11        | 1,600   | Reduction                |      |
| 2.6    | 1.4       | 1.5      | 0.4       | 1.4     | Reduction Rate(%)        |      |
| 709    | 11,633    | 1,516    | 195       | 13,344  | Investment(100 Mil. KRW) |      |
| 19     | 1,485     | 223      | 50        | 1,758   | Loan                     |      |
| 690    | 10,148    | 1,293    | 145       | 11,586  | Own                      |      |
| Others | Sub-Total | Building | Transport | Total   |                          |      |
|        |           |          |           |         |                          |      |

Source: Korea Energy Agency, 「2023 Annual End-Use Energy Statistics」

## 5-2. 에너지 사용량 신고업체수

단위: 개

|       | 산업       |          |            |           |         |       |                 |
|-------|----------|----------|------------|-----------|---------|-------|-----------------|
|       | 식품       | 섬유       | 제지·목재      | 화학        | 요업      | 금속    | 에너지산업           |
| 2000  | 172      | 238      | 103        | 275       | 127     | 437   | 28              |
| 2010  | 224      | 200      | 113        | 434       | 156     | 785   | 60              |
| 2016  | 284      | 178      | 116        | 606       | 182     | 1,161 | 99              |
| 2017  | 292      | 173      | 117        | 623       | 186     | 1,190 | 106             |
| 2018  | 294      | 154      | 112        | 628       | 182     | 1,167 | 113             |
| 2019  | 305      | 129      | 112        | 644       | 188     | 1,161 | 119             |
| 2020  | 313      | 102      | 120        | 669       | 186     | 1,162 | 121             |
| 2021  | 325      | 111      | 124        | 683       | 187     | 1,210 | 121             |
| 2022  | 343      | 99       | 123        | 713       | 187     | 1,242 | 124             |
| 2023  | 352      | 86       | 127        | 717       | 180     | 1,248 | 133             |
| 비중(%) | 6.9      | 1.7      | 2.5        | 14.0      | 3.5     | 24.3  | 2.6             |
|       | Foods    | Textiles | Paper·Wood | Chemicals | Ceramic | Metal | Energy Industry |
|       | Industry |          |            |           |         |       |                 |

자료: 한국에너지공단, 「2023년 에너지사용량 통계」

## 5-3. 에너지 사용량 신고업체 에너지 사용현황

단위: 천toe

|       | 산업       |          |            |           |         |        |                 |
|-------|----------|----------|------------|-----------|---------|--------|-----------------|
|       | 식품       | 섬유       | 제지·목재      | 화학        | 요업      | 금속     | 에너지산업           |
| 2000  | 1,135    | 1,887    | 2,057      | 15,889    | 5,141   | 18,405 | 4,915           |
| 2010  | 1,101    | 1,011    | 1,679      | 18,854    | 5,095   | 29,966 | 8,827           |
| 2016  | 1,228    | 855      | 1,333      | 23,533    | 5,944   | 37,904 | 21,113          |
| 2017  | 1,238    | 831      | 1,295      | 24,380    | 5,660   | 38,716 | 24,664          |
| 2018  | 1,279    | 785      | 1,251      | 25,183    | 5,424   | 39,375 | 28,596          |
| 2019  | 1,297    | 427      | 1,245      | 26,190    | 5,507   | 40,549 | 27,938          |
| 2020  | 1,331    | 233      | 1,186      | 24,605    | 4,949   | 38,009 | 27,577          |
| 2021  | 1,373    | 263      | 1,227      | 26,166    | 5,043   | 38,813 | 30,453          |
| 2022  | 1,398    | 232      | 1,202      | 25,743    | 4,951   | 36,636 | 31,604          |
| 2023  | 1,372    | 198      | 1,171      | 25,432    | 5,072   | 38,387 | 32,943          |
| 비중(%) | 1.2      | 0.2      | 1.0        | 22.8      | 4.5     | 34.4   | 29.5            |
|       | Foods    | Textiles | Paper·Wood | Chemicals | Ceramic | Metal  | Energy Industry |
|       | Industry |          |            |           |         |        |                 |

자료: 한국에너지공단, 「2023년 에너지사용량 통계」

## 5-2. Number of Companies for Energy Consumption Return

Unit: Each

| 산업     |           | 건물       | 수송        | 발전               | 합계    |       |
|--------|-----------|----------|-----------|------------------|-------|-------|
| 산업기타   | 소계        |          |           |                  |       |       |
| 90     | 1,470     | 596      | -         | 26               | 2,092 | 2000  |
| 154    | 2,126     | 894      | -         | 34               | 3,054 | 2010  |
| 255    | 2,881     | 1,202    | 458       | 37               | 4,578 | 2016  |
| 263    | 2,950     | 1,245    | 449       | 38               | 7,682 | 2017  |
| 269    | 2,919     | 1,297    | 441       | 37               | 4,694 | 2018  |
| 262    | 2,920     | 1,302    | 436       | 37               | 4,695 | 2019  |
| 271    | 2,944     | 1,320    | 408       | 42               | 4,714 | 2020  |
| 286    | 3,047     | 1,367    | 408       | 41               | 4,863 | 2021  |
| 293    | 3,124     | 1,469    | 415       | 41               | 5,049 | 2022  |
| 296    | 3,139     | 1,531    | 415       | 43               | 5,128 | 2023  |
| 5.8    | 61.2      | 29.9     | 8.1       | 0.8              | 100.0 | 비중(%) |
| Others | Sub-Total | Building | Transport | Power Generation | Total |       |
|        |           |          |           |                  |       |       |

Source: Korea Energy Agency, 「2023 Annual End-Use Energy Statistics」

## 5-3. Energy Consumption in Companies for Energy Consumption Return(Final Energy)

Unit: Thousand toe

| 산업     |           | 건물       | 수송        | 합계      |       |
|--------|-----------|----------|-----------|---------|-------|
| 산업기타   | 소계        |          |           |         |       |
| 308    | 49,737    | 1,452    | -         | 51,189  | 2000  |
| 2,062  | 68,594    | 2,181    | -         | 70,775  | 2010  |
| 746    | 92,656    | 2,718    | 3,565     | 98,939  | 2016  |
| 789    | 97,573    | 2,765    | 3,492     | 103,830 | 2017  |
| 824    | 102,718   | 2,920    | 3,354     | 108,992 | 2018  |
| 861    | 104,014   | 2,897    | 3,338     | 110,249 | 2019  |
| 854    | 98,744    | 2,823    | 2,778     | 104,345 | 2020  |
| 895    | 104,233   | 2,948    | 2,841     | 110,022 | 2021  |
| 926    | 102,691   | 3,179    | 2,879     | 108,749 | 2022  |
| 921    | 105,495   | 3,239    | 2,910     | 111,644 | 2023  |
| 0.8    | 94.5      | 2.9      | 2.6       | 100.0   | 비중(%) |
| Others | Sub-Total | Building | Transport | Total   |       |
|        |           |          |           |         |       |

Source: Korea Energy Agency, 「2023 Annual End-Use Energy Statistics」

## 5-4. 에너지 및 자원사업 특별회계 자금지원 실적

|      | 사업별<br>지원실적<br>(억원) | 집단<br>에너지공급<br>(억원)                         | 에너지<br>절약시설 설치<br>(억원)         | 신재생에너지<br>보급<br>(억원) | 합계                                |                                      |
|------|---------------------|---------------------------------------------|--------------------------------|----------------------|-----------------------------------|--------------------------------------|
|      |                     |                                             |                                |                      | 에너지 절감량<br>(천toe)                 | 대기오염물질 저감량<br>(톤)                    |
| 2006 | 6,868               | 1,299                                       | 4,542                          | 617                  | 731                               | 1,326                                |
| 2007 | 6,404               | 1,000                                       | 5,400                          | 563                  | 769                               | 1,487                                |
| 2008 | 6,963               | 500                                         | 5,101                          | 563                  | 710                               | 662                                  |
| 2009 | 6,250               | -                                           | 5,118                          | 563                  | 659                               | -                                    |
| 2010 | 11,148              | -                                           | 5,903                          | 913                  | 534                               | -                                    |
| 2011 | 12,924              | -                                           | 5,144                          | 1,118                | 555                               | -                                    |
| 2012 | 5,588               | -                                           | 6,029                          | -                    | 426                               | -                                    |
| 2013 | 6,029               | -                                           | 5,551                          | -                    | 438                               | -                                    |
| 2014 | 5,551               | -                                           | 4,808                          | -                    | 375                               | -                                    |
| 2015 | 4,808               | -                                           | 4,590                          | -                    | 361                               | -                                    |
| 2016 | 4,590               | -                                           | 4,808                          | -                    | 378                               | -                                    |
| 2017 | 3,500               | -                                           | 3,500                          | -                    | 261                               | -                                    |
| 2018 | 3,000               | -                                           | 3,000                          | -                    | 227                               | -                                    |
| 2019 | 2,824               | -                                           | 2,824                          | -                    | 216                               | -                                    |
| 2020 | 2,829               | -                                           | 2,829                          | -                    | 228                               | -                                    |
|      |                     | Integrated<br>Energy<br>Supply              | Energy<br>Saving<br>Facilities | Renewables<br>Supply | Energy<br>Reduction<br>(Thou.toe) | Air Pollutant<br>Reduction<br>(Tons) |
|      |                     |                                             |                                |                      | Total                             |                                      |
|      |                     | Financial Support by Business(100 Mil. KRW) |                                |                      |                                   |                                      |

주 1) CO<sub>2</sub> 저감량=에너지절감량×산업부문 에너지온실가스집약도(2,469톤 CO<sub>2</sub>eq./toe)

2) 원자료 제공기관의 통계 생산 중단으로 인해 최근 통계 미수록

자료: 한국에너지공단, 「2021 에너지 통계 핸드북」

#### 5-4. Financial Support of the Special Accounts for Energy and Resources-Related Projects

| 에너지 이용합리화 자금 기대효과                                                          |                                   |                                      |                                                                  |                                   |                                                                  |      |
|----------------------------------------------------------------------------|-----------------------------------|--------------------------------------|------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------|------|
| 집단에너지 공급                                                                   |                                   |                                      |                                                                  | 에너지 절약시설 설치                       |                                                                  |      |
| CO <sub>2</sub> 저감량<br>(천톤 CO <sub>2</sub> eq.)                            | 에너지 절감량<br>(천toe)                 | 대기오염물질 저감량<br>(톤)                    | CO <sub>2</sub> 저감량<br>(천톤 CO <sub>2</sub> eq.)                  | 에너지 절감량<br>(천toe)                 | CO <sub>2</sub> 저감량<br>(천톤 CO <sub>2</sub> eq.)                  |      |
| 1,805                                                                      | 132                               | 1,326                                | 327                                                              | 599                               | 1,478                                                            | 2006 |
| 1,900                                                                      | 109                               | 1,487                                | 269                                                              | 660                               | 1,631                                                            | 2007 |
| 1,754                                                                      | 58                                | 662                                  | 144                                                              | 652                               | 1,610                                                            | 2008 |
| 1,626                                                                      | -                                 | -                                    | -                                                                | 659                               | 1,626                                                            | 2009 |
| 1,133                                                                      | -                                 | -                                    | -                                                                | 534                               | 1,133                                                            | 2010 |
| 1,177                                                                      | -                                 | -                                    | -                                                                | 555                               | 1,177                                                            | 2011 |
| 1,179                                                                      | -                                 | -                                    | -                                                                | 426                               | 1,179                                                            | 2012 |
| 940                                                                        | -                                 | -                                    | -                                                                | 438                               | 940                                                              | 2013 |
| 763                                                                        | -                                 | -                                    | -                                                                | 375                               | 763                                                              | 2014 |
| 893                                                                        | -                                 | -                                    | -                                                                | 361                               | 893                                                              | 2015 |
| 933                                                                        | -                                 | -                                    | -                                                                | 378                               | 933                                                              | 2016 |
| 626                                                                        | -                                 | -                                    | -                                                                | 261                               | 626                                                              | 2017 |
| 584                                                                        | -                                 | -                                    | -                                                                | 227                               | 584                                                              | 2018 |
| 520                                                                        | -                                 | -                                    | -                                                                | 216                               | 520                                                              | 2019 |
| 632                                                                        | -                                 | -                                    | -                                                                | 228                               | 632                                                              | 2020 |
| CO <sub>2</sub> Reduction<br>(Thou. Tons<br>CO <sub>2</sub> eq.)           | Energy<br>Reduction<br>(Thou.toe) | Air Pollutant<br>Reduction<br>(Tons) | CO <sub>2</sub> Reduction<br>(Thou. Tons<br>CO <sub>2</sub> eq.) | Energy<br>Reduction<br>(Thou.toe) | CO <sub>2</sub> Reduction<br>(Thou. Tons<br>CO <sub>2</sub> eq.) |      |
| Integrated Energy Supply                                                   |                                   |                                      |                                                                  | Energy Saving Facilities          |                                                                  |      |
| Expected Effect of the Energy Use Rationalization Fund on Energy Reduction |                                   |                                      |                                                                  |                                   |                                                                  |      |

Note 1) CO<sub>2</sub> Reduction=Energy Reduction×Energy greenhouse gas intensity of industrial sector(2.469Ton CO<sub>2</sub>eq./toe)

2) Due to the discontinuation of statistical production by the original data provider, recent statistics are not included.

Source: Korea Energy Agency, 「2021 Energy Statistics Handbook」

## 5-5 해외자원개발 현황

|                  | '10  | '11  | '12   | '13   | '14   | '15   | '16   |
|------------------|------|------|-------|-------|-------|-------|-------|
| □ 해외자원개발 사업수(누적) |      |      |       |       |       |       |       |
| ○ 석유·가스          | 301  | 341  | 359   | 367   | 372   | 376   | 376   |
| 〈진행사업〉           | 180  | 198  | 201   | 193   | 182   | 166   | 166   |
| ·생산              | 53   | 69   | 80    | 78    | 74    | 78    | 78    |
| ·개발              | 27   | 25   | 29    | 29    | 28    | 25    | 25    |
| ·탐사(조사)          | 100  | 104  | 92    | 86    | 80    | 63    | 63    |
| 〈종료사업〉           | 121  | 143  | 158   | 174   | 190   | 210   | 210   |
| ○ 일반광물           | 419  | 450  | 483   | 508   | 519   | 525   | 525   |
| 〈진행사업〉           | 289  | 307  | 331   | 343   | 345   | 334   | 334   |
| ·생산              | 57   | 68   | 67    | 75    | 75    | 74    | 74    |
| ·개발              | 90   | 89   | 105   | 110   | 109   | 108   | 108   |
| ·탐사(조사)          | 142  | 150  | 159   | 158   | 161   | 152   | 152   |
| 〈종료사업〉           | 130  | 143  | 152   | 165   | 174   | 191   | 191   |
| □ 자원개발률(%)       |      |      |       |       |       |       |       |
| ·석유·가스           | 10.8 | 13.7 | 13.8  | 13.6  | 14.4  | 15.5  | 15.5  |
| ·유연탄             | 48.3 | 52.2 | 57.7  | 55.9  | 55.4  | 52.8  | 52.8  |
| ·우라늄             | 3.5  | 6.6  | 8.1   | 10.9  | 11.1  | 4.2   | 4.2   |
| ·철               | 12.7 | 15.3 | 14.5  | 21.6  | 18.0  | 15.1  | 15.1  |
| ·동               | 6.1  | 10.2 | 11.4  | 10.5  | 10.7  | 5.5   | 5.5   |
| ·아연              | 34.5 | 24.7 | 19.9  | 21.2  | 21.5  | 21.2  | 21.2  |
| ·니켈              | 37.6 | 30.5 | 31.9  | 45.8  | 61.7  | 68.9  | 68.9  |
| □ 투자현황(백만\$)     |      |      |       |       |       |       |       |
| ·총계              | -    | -    | 8,486 | 6,950 | 6,323 | 4,260 | 4,260 |
| ·석유·가스           | -    | -    | 6,644 | 4,516 | 4,395 | 3,831 | 3,831 |
| ·일반광물            | -    | -    | 1,842 | 2,434 | 1,928 | 429   | 429   |

자료: 통계청(e-나라지표)

## 5-5. Overseas Resources Development

| '17                                                         | '18   | '19   | '20   | '21   | '21  | '23  |                             |
|-------------------------------------------------------------|-------|-------|-------|-------|------|------|-----------------------------|
| <input type="checkbox"/> Number of Businesses(Accumulative) |       |       |       |       |      |      |                             |
| 380                                                         | 380   | 383   | 386   | 388   | 391  | 391  | ○ Oil ·Gas                  |
| 131                                                         | 122   | 119   | 118   | 110   | 105  | 100  | 〈Ongoing Business〉          |
| 79                                                          | 73    | 70    | 69    | 62    | 56   | 55   | ·Production                 |
| 12                                                          | 11    | 11    | 10    | 10    | 10   | 10   | ·Development                |
| 40                                                          | 38    | 38    | 39    | 38    | 39   | 35   | ·Exploration(Investigation) |
| 249                                                         | 258   | 264   | 268   | 278   | 286  | 291  | 〈Expired Business〉          |
| 538                                                         | 544   | 547   | 549   | 551   | 553  | 555  | ○ General Mineral           |
| 322                                                         | 316   | 308   | 301   | 291   | 289  | 287  | 〈Ongoing Business〉          |
| 75                                                          | 75    | 75    | 72    | 67    | -    | -    | ·Production                 |
| 105                                                         | 101   | 100   | 95    | 94    | -    | -    | ·Development                |
| 142                                                         | 140   | 133   | 134   | 130   | -    | -    | ·Exploration(Investigation) |
| 216                                                         | 228   | 239   | 248   | 260   | 264  | 268  | 〈Closed Business〉           |
| <input type="checkbox"/> Self-Development Ratio(%)          |       |       |       |       |      |      |                             |
| 12.7                                                        | 12.5  | 13.3  | 12.0  | 10.7  | 11.0 | 11.0 | ·Oil ·Gas                   |
| 37.6                                                        | 29.9  | 32.2  | 34.3  | 41.2  | 40.0 | 40.0 | ·Butuminous                 |
| 4.0                                                         | 3.1   | 3.3   | 1.4   | -     | -    | -    | ·Uranium                    |
| 26.2                                                        | 31.8  | 32.0  | 34.3  | 34.0  | 43.0 | 37.0 | ·Iron                       |
| 8.0                                                         | 7.7   | 10.0  | 12.2  | 8.3   | 10.0 | 12.0 | ·Copper                     |
| 20.6                                                        | 19.9  | 20.7  | 21.5  | 21.6  | 19.4 | 23.4 | ·Zinc                       |
| 61.8                                                        | 55.2  | 55.0  | 47.2  | 29.7  | 44.0 | 43.3 | ·Nikel                      |
| <input type="checkbox"/> Investment(Mil. USD)               |       |       |       |       |      |      |                             |
| 1,747                                                       | 1,799 | 2,061 | 1,409 | 2,392 | -    | -    | ·Total                      |
| 1,289                                                       | 1,424 | 1,392 | 1,137 | 1,928 | -    | -    | ·Oil ·Gas                   |
| 458                                                         | 375   | 669   | 272   | 464   | -    | -    | ·General Mineral            |

Source: Statistics Korea(e-National indicators)

## 5-6. 유류관련 세율 변화

| 단계       | 종류                  | 년도              | 원유         | 휘발유      | 경유   | 등유   | B-C유 |
|----------|---------------------|-----------------|------------|----------|------|------|------|
| 수입<br>단계 | 관세                  | 2001.1          | 기본5(할당1)   | 기본8(할당7) |      |      |      |
|          |                     | 2004.4.30       | 기본5(할당1)   | 기본8(할당5) |      |      |      |
|          |                     | 2007.7.1        | 기본3(할당1)   | 기본5(할당3) |      |      |      |
|          |                     | 2008.4.1        | 기본3(할당1)   | 기본5(할당1) |      |      |      |
|          |                     | 2009.2.1        | 기본3(할당2)   | 기본5(할당2) |      |      |      |
|          |                     | 2009.3.1        | 기본3(할당···) | 기본5(할당3) |      |      |      |
|          |                     | 2012.1.1        | 기본3(할당···) | 기본3(할당-) |      |      |      |
|          |                     | 2015.1.1        | 기본3(할당1)   | 기본3(할당-) |      |      |      |
|          |                     | 2016.1.1        | 기본3(할당0.5) | 기본3(할당-) |      |      |      |
|          | 수입 부과금              | 2001.3.1        | 14원/L      |          |      |      |      |
|          |                     | 2003.2.17       | 8원/L       |          |      |      |      |
|          |                     | 2003.3.12       | 4원/L       |          |      |      |      |
|          |                     | 2004.1.1        | 14원/L      |          |      |      |      |
|          |                     | 2004.4.30~12.31 | 8원/L       |          |      |      |      |
|          |                     | 2005.1.1        | 14원/L      |          |      |      |      |
| 판매<br>단계 | 개별소비세[(구)<br>특별소비세] | 2004.7.1        | -          | -        | -    | 154원 | 11원  |
|          |                     | 2005.7.1        | -          | -        | -    | ↓    | 15원  |
|          |                     | 2006.1.1        | -          | -        | -    | 134원 | ↓    |
|          |                     | 2006.7.1        | -          | -        | -    | ↓    | 17원  |
|          |                     | 2008.1.1        | -          | -        | -    | 63원  | ↓    |
|          |                     | 2008.4.1        | -          | -        | -    | 90원  | ↓    |
|          |                     | 2008.12.1       | -          | -        | -    | 63원  | ↓    |
|          |                     | 2009.3.1        | -          | -        | -    | 90원  | ↓    |
|          |                     | 2014.7.1        | -          | -        | -    | 63원  | ↓    |
|          | 교통세<br>(교통에너지환경세)   | 2004.3.1        | -          | 559원     | 255원 | -    | -    |
|          |                     | 2004.7.1        | -          | 545원     | 287원 | -    | -    |
|          |                     | 2005.7.1        | -          | 535원     | 323원 | -    | -    |
|          |                     | 2006.7.1        | -          | 526원     | 351원 | -    | -    |
|          |                     | 2007.7.23       | -          | 505원     | 358원 | -    | -    |
|          |                     | 2008.3.5        | -          | 472원     | 335원 | -    | -    |
|          |                     | 2008.10.7       | -          | 462원     | 328원 | -    | -    |
|          |                     | 2009.1.1        | -          | 514원     | 364원 | -    | -    |
|          |                     | 2009.5.21       | -          | 529원     | 375원 | -    | -    |
|          |                     | 2018.11.6       | -          | 450원     | 319원 | -    | -    |
|          |                     | 2019.5.7        | -          | 492원     | 349원 | -    | -    |
|          |                     | 2019.9.1        | -          | 529원     | 375원 | -    | -    |
|          |                     | 2021.11.12      | -          | 423원     | 300원 | -    | -    |
|          |                     | 2022.5.1        | -          | 370원     | 263원 | -    | -    |
|          |                     | 2022.7.1        | -          | 332.5원   | 238원 | -    | -    |
|          |                     | 2023.1.1        | -          | 396.7원   | ↓    | -    | -    |
|          |                     | 2024.7.1        | -          | 423원     | 263원 | -    | -    |
| Stage    | Type                |                 |            |          |      |      |      |

\* 1996. 1월부터 특수세/교통세를 증가세-종량세로 전환, 1996. 7월부터 교육세(특수세/교통세의 15%) 부과  
 자료: 대한석유협회



## 5-6. Oil-Related Tax Rate

| 단계    | 종류                   | 년도         | 원유        | 휘발유      | 경유      | 등유       | B-C유  |
|-------|----------------------|------------|-----------|----------|---------|----------|-------|
|       | 교육세                  | 2005.7.1   | -         | 80.25원   | 48.45원  | ↓        | 2.25원 |
|       |                      | 2006.1.1   | -         | ↓        | ↓       | 20.1원    | ↓     |
|       |                      | 2006.7.1   | -         | 78.90원   | 52.65원  | ↓        | 2.55원 |
|       |                      | 2007.7.23  | -         | 75.75원   | 53.70원  | ↓        | ↓     |
|       |                      | 2008.1.1   | -         | ↓        | ↓       | 9.50원    | ↓     |
|       |                      | 2008.3.5   | -         | 70.80원   | 50.25원  | ↓        | ↓     |
|       |                      | 2008.4.1   | -         | ↓        | ↓       | 13.50원   | ↓     |
|       |                      | 2008.10.7  | -         | 69.30원   | 49.40원  | ↓        | ↓     |
|       |                      | 2008.12.1  | -         | ↓        | ↓       | 9.50원    | ↓     |
|       |                      | 2009.1.1   | -         | 77.10원   | 54.60원  | ↓        | ↓     |
|       |                      | 2009.3.1   | -         | ↓        | ↓       | 13.50원   | ↓     |
|       |                      | 2009.5.21  | -         | 79.35원   | 56.25원  | ↓        | ↓     |
|       |                      | 2014.7.1   | -         | ↓        | ↓       | 9.45원    | ↓     |
|       |                      | 2018.11.6  | -         | 67.50원   | 47.85원  | ↓        | ↓     |
|       |                      | 2019.5.7   | -         | 73.80원   | 52.35원  | -        | -     |
|       |                      | 2019.9.1   | -         | 79.35원   | 56.25원  | -        | -     |
|       |                      | 2021.11.12 | -         | 63.45원   | 45원     | -        | -     |
|       |                      | 2022.5.1   | -         | 55.50원   | 39.45원  | -        | -     |
|       |                      | 2022.7.1   | -         | 49.88원   | 35.70원  | -        | -     |
|       |                      | 2023.1.1   | -         | 59.51원   | ↓       | -        | -     |
|       |                      | 2024.7.1   | -         | 63.45원   | 39.45원  | -        | -     |
|       | 자동차<br>주행에대한<br>자동차세 | 2003.7.1   | -         | 85.51원   | 39.02원  | -        | -     |
|       |                      | 2004.3.1   | -         | 100.62원  | 45.9원   | -        | -     |
|       |                      | 2004.7.1   | -         | 117.18원  | 61.71원  | -        | -     |
|       |                      | 2005.7.1   | -         | 128.4원   | 77.52원  | -        | -     |
|       |                      | 2006.7.1   | -         | 139.39원  | 93원     | -        | -     |
|       |                      | 2007.7.23  | -         | 164.12원  | 116.35원 | -        | -     |
|       |                      | 2008.3.5   | -         | 127.44원  | 90.45원  | -        | -     |
|       |                      | 2008.10.7  | -         | 138.6원   | 98.4원   | -        | -     |
|       |                      | 2009.1.1   | -         | 154.2원   | 109.2원  | -        | -     |
|       |                      | 2009.5.21  | -         | 137.54원  | 97.5원   | -        | -     |
|       |                      | 2018.11.6  | -         | 117.00원  | 82.94원  | -        | -     |
|       |                      | 2019.5.7   | -         | 127.92원  | 90.74원  | -        | -     |
|       |                      | 2019.9.1   | -         | 137.54원  | 97.50원  | -        | -     |
|       |                      | 2021.11.12 | -         | 109.98원  | 78원     | -        | -     |
|       |                      | 2022.5.1   | -         | 96.20원   | 68.38원  | -        | -     |
|       |                      | 2022.7.1   | -         | 86.45원   | 61.88원  | -        | -     |
|       |                      | 2023.1.1   | -         | 103.14원  | ↓       | -        | -     |
|       |                      | 2024.7.1   | -         | 109.98원  | 68.38원  | -        | -     |
|       | 판매 부과금               | 1995.11    | -         | -        | -       | 20원      | -     |
|       |                      | 2001.7.1   | -         | -        | -       | 23원      | -     |
|       |                      | 2008.1.1   | -         | -        | -       | 폐지       | -     |
|       | VAT                  | 1992.1     | -         | 10%      |         |          |       |
| Stage | Type                 | Year       | Crude Oil | Gasoline | Diesel  | Kerosene | B-C   |

## 5-7. 석유수입/판매부과금 개요(2024)

\*자료: 대한석유협회

○ 근거: 석유 및 석유대체연료 사업법 제18조, 제37조

○ 목적: 석유의 수급 및 가격안정

○ 징수 대상자

- 석유(LNG 포함)를 수입하거나 석유제품을 판매하는 석유정제업자·석유수출입업자 또는 석유판매업자
- 석유대체연료를 수입하거나 판매하는 석유대체연료 제조·수출입업자
- 국제 석유가격의 현저한 등락으로 인하여 지나치게 많은 이윤을 얻게 되는 석유정제업자 또는 석유수출입업자

○ 부과기준

- 수입부과금

- 원유 및 석유제품: 16원/L(2006.2.7부터)
- 석유대체연료: 16원/L. 단, 유화연료유는 11원/L(2006.2.7부터)
- LNG : 발전용 3,800원/톤, 발전용 외 24,242원/톤(\*19.4.1부터)
- ※ 단, 발전용 외 수입부과금은 16,730원/톤으로 한시적으로 인하(\*24.7월~\*25.6월)

- 판매 부과금

- 고급 휘발유: 36원/L(2000.7.29부터)
- 부탄: 62,283원/톤(2005.7.8부터)
- \* 단, 부탄의 판매부과금은 43,600원/톤으로 한시적으로 인하(2022.5월~12월)

## 5-7. Summary of Imports and Sales Charges on Petroleum(2024)

### ○ 징수 실적

단위: 백만원

Unit: Million KRW

| 구분   | 수입 부과금    |         |           | 판매 부과금  | 합계        |
|------|-----------|---------|-----------|---------|-----------|
|      | 계         | 석유      | LNG       |         |           |
| 2010 | 1,664,631 | 872,762 | 791,869   | 280,158 | 1,944,789 |
| 2011 | 1,705,714 | 852,735 | 852,979   | 252,651 | 1,958,365 |
| 2012 | 1,729,581 | 839,728 | 889,853   | 277,899 | 2,007,480 |
| 2013 | 1,802,818 | 829,853 | 972,965   | 252,014 | 2,054,832 |
| 2014 | 1,601,095 | 729,930 | 871,165   | 240,595 | 1,841,690 |
| 2015 | 1,640,742 | 848,448 | 792,294   | 240,454 | 1,881,196 |
| 2016 | 1,571,772 | 797,348 | 774,424   | 222,128 | 1,793,900 |
| 2017 | 1,596,292 | 714,659 | 881,633   | 217,863 | 1,814,155 |
| 2018 | 1,794,917 | 756,000 | 1,038,917 | 216,317 | 2,011,234 |
| 2019 | 1,408,599 | 744,526 | 664,073   | 195,469 | 1,604,068 |
| 2020 | 1,115,179 | 569,744 | 545,405   | 192,224 | 1,307,403 |
| 2021 | 1,298,172 | 709,264 | 588,908   | 186,740 | 1,484,912 |
| 2022 | 1,509,245 | 954,801 | 554,444   | 151,394 | 1,660,639 |
| 2023 | 918,366   | 390,831 | 527,535   | 168,975 | 1,087,341 |

주: 총징수 금액에서 환급액을 제외한 순징수 금액임.

### ○ 용도: 에너지 및 자원사업 특별회계의 세입으로 전입



# 06

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부록

Appendices



## 06 부록

1. 에너지 열량 환산기준
2. 단위 환산표
3. 용어해설

# 06 Appendices



1. Energy Conversion Factors
2. Unit Conversion Factors
3. Glossary



## 1. 에너지 열량 환산기준

## Energy Conversion Factors

에너지법 시행규칙 제5조 제1항

2022년 11월 21일 개정(2022년 1월부터 적용)

| 에너지원 |            | 단위<br>Unit | 총발열량 (㎉) Gross Calorific Value |        |        |         |        |        |        |        |
|------|------------|------------|--------------------------------|--------|--------|---------|--------|--------|--------|--------|
|      |            |            | 1980                           | 1981   | 1987   | 1990    | 2007   | 2012   | 2017   | 2022   |
| 석유   | 원유         | kcal/kg    | 10,000                         | 10,000 | 10,000 | 10,000  | 10,750 | 10,730 | 10,750 | 10,920 |
|      | 휘발유        | kcal/ℓ     | 8,300                          | 8,300  | 8,300  | 8,300   | 8,000  | 7,780  | 7,810  | 7,750  |
|      | 등유(실내)     | kcal/ℓ     | 8,700                          | 8,700  | 8,700  | 8,700   | 8,800  | 8,790  | 8,770  | 8,740  |
|      | 등유(보일러)    |            |                                |        |        |         | 8,950  |        |        |        |
|      | 경유         | kcal/ℓ     | 9,200                          | 9,200  | 9,200  | 9,200   | 9,050  | 9,010  | 9,030  | 9,020  |
|      | 바이오디젤      | kcal/ℓ     | -                              | -      | -      | -       | -      | -      | -      | 8,280  |
|      | B - A유     | kcal/ℓ     | 9,500                          | 9,400  | 9,400  | 9,400   | 9,300  | 9,290  | 9,310  | 9,310  |
|      | B - B유     | kcal/ℓ     | 9,200                          | 9,700  | 9,700  | 9,700   | 9,650  | 9,670  | 9,670  | 9,690  |
|      | B - C유     | kcal/ℓ     | 9,900                          | 9,900  | 9,900  | 9,900   | 9,900  | 9,950  | 9,960  | 9,980  |
|      | 프로판        | kcal/kg    | 12,000                         | 12,000 | 12,000 | 12,000  | 12,050 | 12,050 | 12,040 | 12,000 |
|      | 부탄         | kcal/kg    | 11,800                         | 11,800 | 11,800 | 11,800  | 11,850 | 11,850 | 11,820 | 11,790 |
|      | 나프타        | kcal/ℓ     | 8,000                          | 8,000  | 8,000  | 8,000   | 8,050  | 7,710  | 7,710  | 7,700  |
|      | 용제         | kcal/ℓ     | -                              | -      | -      | (8,200) | 7,950  | 7,950  | 7,830  | 7,830  |
| 가스   | 항공유(JA-1)  | kcal/ℓ     | -                              | 8,700  | 8,700  | 8,700   | 8,750  | 8,730  | 8,720  | 8,720  |
|      | 천연가스(LNG)  | kcal/kg    | -                              | 9,500  | 12,980 | 13,000  | 13,000 | 13,040 | 13,060 | 13,080 |
|      | 도시가스(LNG)  | kcal/Nm³   | 7,000                          | 7,000  | 7,000  | 10,500  | 10,550 | 10,430 | 10,290 | 10,190 |
| 석탄   | 도시가스(LPG)  | kcal/Nm³   | -                              | -      | -      | 15,000  | 15,000 | 15,000 | 15,190 | 15,150 |
|      | 국내무연탄      | kcal/kg    | 4,600                          | 4,600  | 4,500  | 4,500   | 4,650  | 4,500  | 4,730  | 4,710  |
|      | 수입무연탄(연료용) | kcal/kg    | -                              | -      | -      | 6,000   | 6,550  | 5,020  | 5,060  | 5,500  |
|      | 유연탄(원료용)   | kcal/kg    | 6,600                          | 6,600  | 6,600  | 6,600   | 7,000  | 7,000  | 6,970  | 7,030  |
| 전기   | 코크스        | kcal/kg    | 6,500                          | 6,500  | 6,500  | 6,500   | 7,050  | 6,960  | 6,930  | 6,840  |
|      | 전기(발전기준)   | kcal/kWh   | 2,500                          | 2,500  | 2,500  | 2,500   | 2,150  | 2,110  | 2,130  | 2,130  |
|      | 전기(소비기준)   | kcal/kWh   | -                              | -      | -      | -       | -      | 2,300  | 2,290  | 2,290  |

주 : 석탄의 발열량은 인수식 기준, 최종에너지소비 기준 전력 환산은 1kWh=860㎉



## 2. 단위 환산표

## Unit Conversion Factors

### ① 에너지

| 단위   | TJ                      | Gcal   | Mtoe                   | MBtu                   | GWh                    | Units |
|------|-------------------------|--------|------------------------|------------------------|------------------------|-------|
| TJ   | 1                       | 238.8  | $2.388 \times 10^{-5}$ | 947.8                  | 0.2778                 | TJ    |
| Gcal | $4.1868 \times 10^{-3}$ | 1      | $10^{-7}$              | 3.968                  | $1.163 \times 10^{-3}$ | Gcal  |
| Mtoe | $4.1868 \times 10^{-4}$ | $10^7$ | 1                      | $3.968 \times 10^{-7}$ | 1.163                  | Mtoe  |
| MBtu | $1.0551 \times 10^{-3}$ | 0.252  | $2.52 \times 10^{-8}$  | 1                      | $2.931 \times 10^{-4}$ | MBtu  |
| GWh  | 3.6                     | 860    | $8.6 \times 10^{-5}$   | 3412                   | 1                      | GWh   |

### ② 무게

| 단위            | kg    | tonne                 | Long ton(lt)          | Short ton(st)          | pound(lb) | Units         |
|---------------|-------|-----------------------|-----------------------|------------------------|-----------|---------------|
| kg            | 1     | 0.001                 | $9.84 \times 10^{-4}$ | $1.102 \times 10^{-3}$ | 2.2046    | kg            |
| tonne         | 1000  | 1                     | 0.984                 | 1.1023                 | 2204.6    | tonne         |
| Long ton(lt)  | 1016  | 1.016                 | 1                     | 1.120                  | 2240.0    | Long ton(lt)  |
| Short ton(st) | 907.2 | 0.9072                | 0.893                 | 1                      | 2000.0    | Short ton(st) |
| pound(lb)     | 0.454 | $4.54 \times 10^{-4}$ | $4.46 \times 10^{-4}$ | $5.0 \times 10^{-4}$   | 1         | pound(lb)     |

### ③ 부피

| 단위       | m³                      | liter   | ft³     | gal(U.S) | gal(U.K) | bbl                     | Units    |
|----------|-------------------------|---------|---------|----------|----------|-------------------------|----------|
| m³       | 1                       | $10^3$  | 35.3146 | 264.1721 | 219.969  | 6.2892                  | m³       |
| liter    | $10^{-3}$               | 1       | 0.0353  | 0.2641   | 0.2199   | $6.2892 \times 10^{-3}$ | liter    |
| ft³      | $2.8316 \times 10^{-2}$ | 28.3168 | 1       | 7.4805   | 6.2288   | 0.178                   | ft³      |
| gal(U.S) | $3.7854 \times 10^{-3}$ | 3.7854  | 0.1336  | 1        | 0.8326   | 0.0238                  | gal(U.S) |
| gal(U.K) | 0.004561                | 4.5461  | 0.1605  | 1.2009   | 1        | 0.0285                  | gal(U.K) |
| bbl      | 0.1589                  | 158.988 | 5.6146  | 42       | 34.9726  | 1                       | bbl      |

### 3. 용어해설

#### A. 에너지 단위

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

## B. 간이밸런스 용어

### 1. 에너지밸런스 종류

#### ■ 확장밸런스 (Extended balance)

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

#### ■ 간이밸런스 (Simple balance)

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

### 2. 간이밸런스의 행 구조

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

#### ■ 국내생산 (Production)

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

#### ■ 수입 (Imports)

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

#### ■ 수출 (Exports)

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



#### ■ 국제해운병커링 (International marine bunkers)

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

#### ■ 국제항공병커링 (International aviation bunkers)

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

#### ■ 재고변화 (Stocks changes)

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

#### 일차에너지공급 (Total primary energy supply)

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

#### ■ 제품이동 (Transfers between commodities)

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

#### 통계오차 (Statistical difference)

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

#### 일차에너지소비 (Total primary energy consumption)

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

### 전환과정 (Transformation processes)

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

#### ■ 발전전용 (Electricity-only plants)

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

#### ■ 열병합 (CHP plants)

열병합발전은 단일 플랜트에서 전기와 열을 동시에 생산하는 방식을 말함.

#### ■ 열전용 (Heat-only plants)

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

#### ■ 석유제품생산 (Petroleum products)

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

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

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

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

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

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

연료전지용 수소가 투입되어 전기가 생산되는 공정.

### 전환자체소비 (Transformation own use)

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



### 손실 (Losses)

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

### 최종소비 (Total final consumption)

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

### ■ 산업 (Industry)

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

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

#### ■ 수송 (Transport)

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

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

#### ■ 가정 (Residential)

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

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

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

### 3. 간이벨런스의 열 구조

#### 석탄 및 석탄제품 (Coal)

##### ■ 무연탄 (Anthracite)

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

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

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



### 천연가스 (Natural gas)

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

### 도시가스 (City gas)

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

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

#### ■ 원유 (Crude oil)

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

#### ■ 정제원료 (Refinery feedstocks)

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

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

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

#### ■ 기타탄화수소 (Other hydrocarbons)

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

### 석유제품 (Petroleum)

#### ■ 정제가스 (Refinery gas)

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

#### ■ 프로판 (Propane)

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



#### ■ 부탄 (Butane)

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

#### ■ 휘발유 (Motor gasoline)

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

#### ■ 항공휘발유 (Aviation gasoline)

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

#### ■ 휘발유형항공유 (Gasoline type jet fuel)

등유와 납사로 구성되며 항공기의 터빈동력에 사용되는 경질유임.

#### ■ 등유형항공유 (Kerosene type jet fuel)

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

#### ■ 등유 (Kerosene)

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

#### ■ 경유 (Gas & Diesel oil)

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

#### ■ B-A

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

#### ■ B-B

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



## ■ B-C

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

## ■ 납사 (Naphtha)

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

## ■ 용제 (White spirit & SBP)

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

## ■ 윤활유 (Lubricants)

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

## ■ 아스팔트 (Bitumen)

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

## ■ 파라핀왁스 (Paraffin waxes)

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

## ■ 석유코크 (Petroleum coke)

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

## ■ 기타석유제품 (Other oil products)

위에서 정의되지 않은 모든 석유제품으로 주로 프로필렌과 황의 생산량임.

### 원자력 (Nuclear)

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

### 수력 (Hydro)

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

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

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

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

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

지열, 태양광, 태양열, 해양, 풍력의 합계.

### 기타에너지원 (Other sources)

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

### 전기 (Electricity)

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

### 열 (Heat)

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

### 총에너지 (Total of all energy)

모든 에너지 상품의 합계.

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

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

## C. 기타 에너지 용어

- **냉난방도일(Heating and cooling degree days)** : 매일의 일평균기온과 기준 온도의 차이를 일별로 누적하여, 일평균기온이 24℃ 보다 높은 경우는 냉방도일로, 18℃보다 낮은 경우는 난방도일로 계산함.
- **발열량(Calorific value)** : 단위량의 연료가 일정조건하에서 완전 연소한 경우에 내는 열량.
- **브렌트유(Brent)** : 브렌트유(Brent crude oil)는 영국 북해 지역에서 생산되는 원유로 유럽과 아프리카 지역에서 거래되는 원유 가격을 결정하는 기준 원유임.
- **석유 의존도(Rate of dependence on oil)** : 일차에너지공급량(TPES) 중에서 원유 및 정제원료, 프로판, 부탄, 휘발유, 항공유, 등유, 경유, 중유, 납사 등 석유제품 전체가 차지하는 비중.
- **아랍 라이트(Arab light)** : 사우디아라비아산 원유 중 API도(미국 석유회사가 규정한 비중측정단위)가 약 34도인 원유를 말함. 중동 원유 중에서 생산량이 많으며, 표준적인 상태에서 원유가격을 설정할 시의 기준원유로서 채택되고 있었지만 1985년 1월의 OPEC 제73회 임시총회에서 기준원유 가격제도로 변경됨.
- **압축 천연가스(CNG, Compressed Natural Gas)** : 천연가스를 냉동, 압축하여 액화한 LNG(액화 천연가스)와는 달리 고압으로 압축하여 압력 용기에 저장한 형태를 말함.
- **액성 천연가스(NGL, Natural Gas Liquid)** : 가스전설비 또는 가스정제 공장의 분리기에서 액체상태로 회수되는 천연가스의 일부임. 액성 천연가스는 에탄, 프로판, 부탄, 펜탄, 천연가솔린 및 응축액을 포함하나 이에 국한하지는 않으며, 소량의 비탄화수소 성분을 포함하는 경우도 있음.
- **액화석유가스(LPG, Liquefied Petroleum Gas)** : 석유생산, 석유정제 또는 석유화학공업의 과정에서 부생되는 탄화수소를 분리 추출해, 상온·상압에서 가스 상태의 프로판, 부탄 등의 혼합기체를 가압 또는 냉각해 액화한 것. 가정용, 공업용, 내연기관용 연료, 도시가스의 원료로서 사용되고 있음.
- **양수 발전(Pumping-up power generation)** : 고지대에 저수지를 만들고 전력의 비수요기인 밤에 잉여전력을 이용하여 여기에 물을 모터펌프로 퍼올려 놓았다가 수요기에 저수지물을 낙하시켜 발전하는 방식으로 우리나라의 양수발전은 무주, 청평, 삼랑진, 산청, 양양 등에 있음.
- **에너지원단위(Energy intensity)** : 국내총생산(GDP) 대비 일차에너지공급량(TPES)의 비율로 정의되며, 경제활동에 투입된 에너지소비의 효율성을 평가하는 지표로써 산업구조, 부가가치, 에너지절약 및 이용효율 수준 등에 영향을 받음.

- **에너지 수입의존도(Rate of dependence on imports)** : 일차에너지공급량(TPES) 중 수입에너지가 차지하는 비중.
- **옥탄가(Octane number)** : 휘발류에 있어서 안티노크성(Anti-knocking)의 고저를 표시하는 상대적인 척도를 말함. 옥탄가는 이소옥탄(Iso-Octane)의 옥탄가를 100, 노말헵탄(n-Heptane)의 옥탄가를 0으로 정한 후, 휘발류와 같은 안티노크성을 갖는 표준연료(이소옥탄과 노말헵탄의 혼합물)에 함유된 이소옥탄의 부피(%)로 표시함. 옥탄가가 높을수록 안티노크성이 높은 것을 의미함.
- **전력화 비중(Electrification share)** : 최종소비 부문에서 전기 에너지 소비가 차지하는 비중.
- **콘덴세이트(Condensate)** : 일부 천연가스에 섞여 나오는 경질의 휘발성 액체 탄화수소로 여러 가지 의미가 혼용되고 있으나 일반적으로 콘덴세이트라 함은 API 40~50도 이상의 초경질 원유를 말함. 주성분은 납사이고 소량의 중간유분(등유유분, 경유유분) 및 잔사유분을 함유하고 있음.
- **현물가격(Spot price)** : 일반적으로는 상품을 현물거래하는 경우의 가격을 말함. 장기계약 등에 의하지 않기 때문에 수급의 상태에 따라 가격이 변함. 최근에는 원유 거래 시장에서 쓰이는 일이 많으며 원유의 현물시장에서 거래되는 원유가격임.
- **API(American Petroleum Institute)** : 원유나 석유제품의 비중을 나타내기 위한 지표로 미국석유회(API : American Petroleum Institute)가 제정한 화학적 석유비중 표시방법. 일반적으로 탄화수소가 많을수록 비중이 커지는데 보통 API 34도 이상의 원유를 경질원유, API 30~34도의 원유를 중질원유, API 30도 이하의 원유를 중질원유로 분류함.
- **BPSD(Barrel Per Stream Day)** : 석유정제설비의 능력을 표시하는 단위로서 연간 처리량을 가동일수로 나눈 값.
- **CIF(Cost, Insurance and Freight)** : 운임·보험료 포함가격(Cost, Insurance and Freight)으로, 무역거래의 기본조건으로서 가장 넓게 사용됨. 이 조건으로 수출계약을 체결한 판매자는 화물을 수출항의 본선에 선적할 때까지의 위험과 비용을 부담하는 이외에도 목적지까지의 운임과 보험료를 부담해야만 함.
- **FOB(Free On Board)** : 본선인도가격이라고도 불리며 CIF와 더불어 가장 많이 이용되는 무역조건임. 이 조건에서는 구매자의 본선에 화물을 적재할 때까지의 비용과 위험을 판매자가 부담함.
- **IEA(International Energy Agency)** : 국제 에너지기구의 약칭. 제1차 석유위기 후의 국제에너지 정세에 대응하기 위하여 미국의 제창에 의해 1974년 11월에 설립된 석유소비국의 국제기구임. 사무국은 파리의 경제협력개발기구 본부 내에 있으며 현재 가맹국은 31개국임(2022년 8월 기준). 설립 당초는 OPEC의 원유공급 삭감과 가격인상에 대응하는 것이 큰 목적이었지만, 최근에는 비상시의 석유유통과 대체에너지 개발협력 등에 중점을 둠.
- **OECD(Organization for Economic Cooperation and Development)** : 경제협력개발기구. 구주부흥계획(마셜플랜)을 담당했던 구주경제협력기구(OEEC)의 뒤를 이어 OEEC 18개국에 미국, 캐나다가 참가해 1961년 9월에 발족됨. 주요목적은 가맹국의 협력에 의한 경제성장, 무역확대, 개발도상국 원조를 추진하는 데 있으며 현재 38개국(2021년 5월 기준)이 가입해 있음.



- **OPEC(Organization of Petroleum Exporting Countries)** : 석유수출기구의 약칭. 1960년 9월 이라크, 쿠웨이트, 사우디아라비아, 베네수엘라, 이란의 5개국에 의해 설립되었으며, 본부는 빈에 있음. OPEC설립의 직접적인 원인은 1959년과 1960년 2회에 걸친 원유공시가격의 대폭적인 인하가 메이저에 의해 일방적으로 행해진 데에 있으며, 산유국간의 석유택정책협조와 이를 위한 정보수집, 의견교환 등에 목적을 두고 있음.
- **OPEC 바스켓가격(OPEC Basket Price)** : OPEC 회원국들이 생산하는 원유 가격을 가중치에 따라 평균한 가격으로 OPEC이 국제유가의 지표로 삼는 수치임. 알제리의 사하란 블렌드(Saharan Blend), 나이지리아의 보니 라이트(Bonny Light), 사우디아라비아의 아랍 라이트(Arab Light) 등 10여개 유종으로 구성됨.
- **WTI(West Texas Intermediate, 서부 텍사스유)** : 미국에서 생산되는 대표적인 원유임. 뉴욕상품거래소에서 이루어지는 선물거래의 주요상품의 하나로 북해 브렌트유와 함께 구미 석유시장의 지표가 됨.







# 2024

## 자주찾는 에너지통계

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