Introduction

The energy sector is one of the pillars of growth, competitiveness and development for modern economies. To keep up with the ongoing transformation of the energy sector in Europe, we need data that is accurate and up-to-date.

This publication provides an overview of the most relevant annual energy-related statistics for the European Union as a whole and for each of its Member States.

The data contained in this pocketbook is drawn from several sources: Eurostat and other European Commission’s services, the European Environment Agency, the International Energy Agency.

The publication comprises of five parts:
- Part 1. Overview of main data on World and European Union energy
- Part 2. Main energy statistics and indicators for the European Union and its Member States
- Part 3. Socio-economic indicators in the European Union
- Part 5. Country profiles – main statistics and indicators for the European Union and its Member States

The indicators are calculated using the methodology established by the European Commission – DG Energy and aligned to Eurostat and international statistics approaches.

The appendices include a glossary and methodological notes.

This publication comprises the most recently available data at the time of release. Corrections and updates will be released periodically in the energy statistical datasheets at:

Recommended sources of data:

European Commission websites:

DG Energy
Pocketbook and energy statistical datasheets:

Eurostat
Eurostat Database: http://ec.europa.eu/eurostat/data/database

DG Economic and Financial Affairs
AMECO: http://ec.europa.eu/economy_finance/db_indicators/ameco/index_en.htm

DG Climate Action
Climate strategies, targets and progress reports:
http://ec.europa.eu/clima/policies/strategies/index_en.htm

Websites of other EU bodies and international organisations:

European Environment Agency
Data and maps: http://www.eea.europa.eu/

International Energy Agency
Statistics and balances: http://www.iea.org/statistics/

Please send your comments on this publication and suggestions for improvement to ENER-A4-STATISTICS@ec.europa.eu, with the word ‘Pocketbook’ in the subject line.
Summary

PART 1  Overview

1.1 Energy in the World (Overview) ........................................... 10
  1.1.1 World Energy Production by Region .............................. 10
  1.1.2 World Energy Production by Fuel .................................. 11
  1.1.3 World Total Energy Supply by Region .......................... 12
  1.1.4 World Total Energy Supply by Fuel .............................. 13
  1.1.5 World Total Final Consumption by Region ...................... 14
  1.1.6 World Total Final Consumption by Fuel ......................... 15
  1.1.7 World Electricity Generation by Fuel ............................ 16
  1.1.8 World Heat Generation by Fuel .................................. 17
  1.1.9 World CO₂ Emissions by Region ................................... 18
  1.1.10 World CO₂ Intensity by Region ................................... 19

1.2 Energy in the EU (Overview) ........................................... 20
  1.2.1 EU27_2020 Energy Flow – 2000 .................................... 20
  1.2.2 EU27_2020 Energy Flow – 2018 .................................... 21
  1.2.3 EU27_2020 Gross Inland Consumption ......................... 22
  1.2.4 EU27_2020 Energy Import Dependency ......................... 24
  1.2.5 EU27_2020 Energy Import Dependency – Net Imports ........ 25
  1.2.6 EU27_2020 Imports by Country of Origin ....................... 26

1.3 EU 2020-2030 Targets .................................................. 27
  1.3.1 Renewable Energy (RE) Shares & Targets ..................... 27
  1.3.2 Renewable Energy Shares ......................................... 29
  1.3.3 EU 2020-2030 Milestones & Targets ............................ 30
  1.3.4 EU 2020-2030 Targets .............................................. 32

PART 2  Energy in the EU

2.1 Energy Supply ............................................................. 37
  2.1.1 Production ............................................................. 37
  2.1.2 Net Imports .......................................................... 40
  2.1.3 Gross Available Energy ............................................. 43
  2.1.4 Gross Inland Consumption ....................................... 44
  2.1.5 Total Energy Supply ............................................... 48

2.2 Energy Imports ............................................................ 49
  2.2.1 Imports – Solid Fossil Fuels ...................................... 49
  2.2.2 Imports – Oil and Petroleum Products ......................... 54
2.8 CHP ............................................................... 110
  2.8.1 CHP Electricity ..................................... 110
  2.8.2 CHP Heat ........................................... 111
  2.8.3 CHP Electricity and Heat ..................... 112

2.9 Heat .......................................................... 113
  2.9.1 Gross Heat Generation ......................... 113

2.10 Transport ................................................... 116
  2.10.1 Fuels Final Consumption .................... 116
  2.10.2 Biofuels ........................................... 117

2.11 Energy Efficiency .......................................... 119
  2.11.1 Primary Energy Consumption 2020-2030  119
  2.11.2 Final Energy Consumption 2020-2030 ...... 120
  2.11.3 Energy Intensity .................................. 121
  2.11.4 Energy Consumption per Capita .......... 122
  2.11.5 Final Electricity Consumption per Capita  123
  2.11.6 Primary Energy Intensity 2020-2030 ...... 124
  2.11.7 Greenhouse Gas (GHG) Intensity of Energy 125

2.12 Renewable Energy (RES) Indicators .............. 126
  2.12.1 Renewable Energy (RES) Shares .......... 126

2.13 Energy Prices and Taxes .................................. 129
  2.13.1 Prices of Transport Fuels .................... 129
  2.13.2 Fuel Prices – Domestic Consumers ....... 132
  2.13.3 Fuel Prices – Industrial Consumers ...... 134

PART 3 Socio-Economic Indicators in the EU

3.1 Classification of the Energy Sector .................. 140
  3.1.1 Comparative table with EUROSTAT and UN classifications 140

3.2 Enterprises in the Energy Sector ..................... 141
  3.2.1 Number of Enterprises in the Energy Sector 141
  3.2.2 Turnover in the Energy Sector ................ 145
  3.2.3 Number of Persons Declared as Employed in the Energy Sector 149

3.3 Economy .................................................... 153
  3.3.1 GDP at Current Prices ......................... 153
  3.3.2 GDP per Capita at Current Prices .......... 154
PART 4 Environment Indicators in the EU

4.1 Gases Emissions ............................................. 164
   4.1.1 Greenhouse Gas (GHG) Emissions ...................... 164
      EU27_2020 and Member States – Total .................. 164
      EU27_2020 and Member States – Energy related ......... 165
      EU27_2020 and Member States – Not Energy related ... 166
      EU27_2020 – Total and Energy related ................... 167
      EU27_2020 – Not Energy related .......................... 168
   4.1.2 CO₂ Emissions ........................................ 169
      EU27_2020 and Member States – Total .................. 169
      EU27_2020 and Member States – Energy related ......... 170
      EU27_2020 and Member States – Not Energy related ... 171
      EU27_2020 – Total and Energy related ................... 172
      EU27_2020 – Not Energy related .......................... 173

4.2 Main Emissions Indicators .................................. 174
   4.2.1 Greenhouse Gas (GHG) Emissions per Capita .......... 174
   4.2.2 Greenhouse Gas (GHG) Emissions to GDP Intensity .... 175

PART 5 Country Profiles

5.1 European Union – 27 (from 2020) .......................... 180
5.2 European Union – 28 (until 2020) ......................... 182
5.3 Belgium .................................................... 184
5.4 Bulgaria .................................................... 186
5.5 Czechia ..................................................... 188
5.6 Denmark ................................................... 190
5.7 Germany .................................................... 192
5.8 Estonia ..................................................... 194
5.9 Ireland ................................................................. 196
5.10 Greece ............................................................... 198
5.11 Spain .................................................................. 200
5.12 France ................................................................. 202
5.13 Croatia ................................................................. 204
5.14 Italy ................................................................ 206
5.15 Cyprus ................................................................. 208
5.16 Latvia .................................................................. 210
5.17 Lithuania .............................................................. 212
5.18 Luxembourg ........................................................ 214
5.19 Hungary ............................................................... 216
5.20 Malta .................................................................. 218
5.21 Netherlands .......................................................... 220
5.22 Austria ................................................................ 222
5.23 Poland .................................................................. 224
5.24 Portugal ............................................................... 226
5.25 Romania ............................................................... 228
5.26 Slovenia ............................................................... 230
5.27 Slovakia ............................................................... 232
5.28 Finland ............................................................... 234
5.29 Sweden ............................................................... 236
5.30 United Kingdom .................................................. 238

Appendices

Appendices Methodology ........................................................................ 244
  Appendix 1 – Country Nomenclature .................................................. 244
  Appendix 2 – Main Energy Flows in Eurostat Energy Balances – EN ...... 245
  Appendix 3 – Main Energy Products in Eurostat Energy Balances – EN .... 246
  Appendix 4 – Symbols and Abbreviations ............................................. 248
  Appendix 5 – Conversion Factors ....................................................... 249
  Appendix 6 – Average Calorific Values ............................................... 250

Appendix Glossary .................................................................................. 251
  Appendix 7 – Glossary ..................................................................... 251

Appendix Notes ....................................................................................... 262
  Appendix 8 – Notes ...................................................................... 262

Notes ........................................................................................................ 267
Summary

1.1  Energy in the World (Overview)  ......................................................... 10
     1.1.1  World Energy Production by Region  ........................................ 10
     1.1.2  World Energy Production by Fuel  ........................................... 11
     1.1.3  World Total Energy Supply by Region  ...................................... 12
     1.1.4  World Total Energy Supply by Fuel  .......................................... 13
     1.1.5  World Total Final Consumption by Region  ................................. 14
     1.1.6  World Total Final Consumption by Fuel  ..................................... 15
     1.1.7  World Electricity Generation by Fuel  ........................................ 16
     1.1.8  World Heat Generation by Fuel  ................................................ 17
     1.1.9  World CO₂ Emissions by Region  ............................................... 18
     1.1.10 World CO₂ Intensity by Region  ................................................. 19

1.2  Energy in the EU (Overview)  ............................................................. 20
     1.2.1  EU27_2020 Energy Flow – 2000  .............................................. 20
     1.2.2  EU27_2020 Energy Flow – 2018  .............................................. 21
     1.2.3  EU27_2020 Gross Inland Consumption  ....................................... 22
     1.2.4  EU27_2020 Energy Import Dependency  ...................................... 24
     1.2.5  EU27_2020 Energy Import Dependency – Net Imports  .................... 25
     1.2.6  EU27_2020 Imports by Country of Origin  .................................... 26

1.3  EU 2020-2030 Targets  ........................................................................ 27
     1.3.1  Renewable Energy (RE) Shares & Targets  .................................... 27
     1.3.2  Renewable Energy Shares  .......................................................... 29
     1.3.3  EU 2020-2030 Milestones & Targets  .......................................... 30
     1.3.4  EU 2020-2030 Targets  ................................................................. 32
PART 1  Overview

1.1  Energy in the World (Overview)

1.1.1  World Energy Production by Region

(Mtoe)

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<td>1724</td>
<td>2022</td>
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<td>1627</td>
<td>1888</td>
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<td>Asia*</td>
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<td>1252</td>
<td>1492</td>
<td>1531</td>
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<td>11551</td>
<td>12801</td>
<td>13739</td>
<td>13968</td>
<td>14421</td>
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</table>

TOTAL 2018: **14421 Mtoe**

* non OECD and OECD Asia, excluding China.

Source: IEA Statistics, August 2020

Methodology and Notes: See Appendices
### 1.1.2 World Energy Production by Fuel (Mtoe)

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<th>Fuel Type</th>
<th>2000</th>
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<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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<td>Petroleum and Products</td>
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<td>4,048</td>
<td>4,093</td>
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<td>Nuclear</td>
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<td>722</td>
<td>719</td>
<td>670</td>
<td>687</td>
<td>707</td>
</tr>
<tr>
<td>Other</td>
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<td>23</td>
<td>33</td>
<td>40</td>
<td>45</td>
<td>47</td>
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<tr>
<td><strong>Total</strong></td>
<td>10,025</td>
<td>11,551</td>
<td>12,801</td>
<td>13,739</td>
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**TOTAL 2018: 14,421 Mtoe**

**Methodology and Notes:** See Appendices
### 1.1.3 World Total Energy Supply by Region (Mtoe)

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<tr>
<th>Region</th>
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<th>2005</th>
<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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<td>3079</td>
<td>3211</td>
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<td>2217</td>
<td>2186</td>
<td>2155</td>
<td>2231</td>
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<td>2287</td>
<td>2465</td>
<td>2588</td>
<td>2656</td>
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<td>652</td>
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<td>693</td>
<td>729</td>
<td>759</td>
</tr>
<tr>
<td>Africa</td>
<td>491</td>
<td>585</td>
<td>686</td>
<td>774</td>
<td>814</td>
<td>837</td>
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<td>353</td>
<td>469</td>
<td>608</td>
<td>718</td>
<td>754</td>
<td>760</td>
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<tr>
<td>World bunkers**</td>
<td>274</td>
<td>318</td>
<td>358</td>
<td>381</td>
<td>412</td>
<td>422</td>
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<tr>
<td>Rest of the World</td>
<td>1646</td>
<td>1804</td>
<td>1923</td>
<td>1952</td>
<td>1976</td>
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<td>11494</td>
<td>12845</td>
<td>13583</td>
<td>13951</td>
<td>14282</td>
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</table>

**TOTAL 2018:** **14282 Mtoe**

* non OECD and OECD Asia, excluding China.
** International aviation and international navigation.

Source: IEA Statistics, August 2020
Methodology and Notes: See Appendices
1.1.4 World Total Energy Supply by Fuel (Mtoe)

<table>
<thead>
<tr>
<th>Fuel Type</th>
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<th>2005</th>
<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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<td>Petroleum and Products</td>
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<td>4497</td>
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<td>Solid Fuels</td>
<td>2317</td>
<td>2991</td>
<td>3650</td>
<td>3843</td>
<td>3787</td>
<td>3838</td>
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<td>Gas</td>
<td>2071</td>
<td>2360</td>
<td>2736</td>
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<td>1931</td>
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<td>Hydro*</td>
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<td>670</td>
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</tr>
<tr>
<td>Total</td>
<td>10034</td>
<td>11494</td>
<td>12845</td>
<td>13583</td>
<td>13951</td>
<td>14282</td>
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</tbody>
</table>

**TOTAL 2018: 14282 Mtoe**

* Partial disaggregation of the Renewables group. Waste also includes non-RES wastes.

Source: IEA Statistics, August 2020
Methodology and Notes: See Appendices
## 1.1.5 World Total Final Consumption by Region (Mtoe)

<table>
<thead>
<tr>
<th>Region</th>
<th>2000</th>
<th>2005</th>
<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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<td>1,028 M</td>
<td>1,093 M</td>
<td>1,070 M</td>
<td>994 M</td>
<td>1,028 M</td>
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<td>China</td>
<td>791 M</td>
<td>1,235 M</td>
<td>1,653 M</td>
<td>1,970 M</td>
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<td>2,067 M</td>
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<td>United States</td>
<td>1,546 M</td>
<td>1,563 M</td>
<td>1,513 M</td>
<td>1,511 M</td>
<td>1,522 M</td>
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<tr>
<td>Asia*</td>
<td>1,220 M</td>
<td>1,369 M</td>
<td>1,554 M</td>
<td>1,687 M</td>
<td>1,778 M</td>
<td>1,795 M</td>
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<tr>
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<td>433 M</td>
<td>497 M</td>
<td>568 M</td>
<td>593 M</td>
<td>612 M</td>
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<td>Russian Federation</td>
<td>418 M</td>
<td>412 M</td>
<td>447 M</td>
<td>453 M</td>
<td>488 M</td>
<td>514 M</td>
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<td>Middle East</td>
<td>241 M</td>
<td>313 M</td>
<td>416 M</td>
<td>492 M</td>
<td>512 M</td>
<td>519 M</td>
</tr>
<tr>
<td>World bunkers**</td>
<td>274 M</td>
<td>318 M</td>
<td>358 M</td>
<td>381 M</td>
<td>412 M</td>
<td>422 M</td>
</tr>
<tr>
<td>Rest of the World</td>
<td>1,149 M</td>
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<td>9,717 M</td>
<td>9,938 M</td>
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</table>

**TOTAL 2018: 9,938 Mtoe**

* non OECD and OECD Asia, excluding China.
** International aviation and international navigation.

Source: IEA Statistics, August 2020

Methodology and Notes: See Appendices
1.1.6 World Total Final Consumption by Fuel (Mtoe)

<table>
<thead>
<tr>
<th></th>
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<td>Other</td>
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<td>13</td>
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<tr>
<td>Total</td>
<td>7032</td>
<td>7980</td>
<td>8838</td>
<td>9408</td>
<td>9717</td>
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TOTAL 2018: 9938 Mtoe

Source: IEA Statistics, August 2020
Methodology and Notes: See Appendices
1.1.7 World Electricity Generation by Fuel (TWh)

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<td>Solid Fuels</td>
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<td>Gas</td>
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<td>Solar/Wind/Other*</td>
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<td>140</td>
<td>408</td>
<td>1126</td>
<td>1622</td>
<td>1871</td>
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<td>Biofuels and Waste*</td>
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<td>81</td>
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<td>90</td>
<td>100</td>
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<td>18283</td>
<td>21524</td>
<td>24280</td>
<td>25612</td>
<td>26619</td>
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TOTAL 2018: 26619 TWh

*T Partial disaggregation of the Renewables group. Waste also includes non-RES wastes.
Source: IEA Statistics, August 2020
Methodology and Notes: See Appendices
### 1.1.8 World Heat Generation by Fuel (PJ)

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<td>6031</td>
<td>6431</td>
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<td>595</td>
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<td>555</td>
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<td>818</td>
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<tr>
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<td>40</td>
<td>44</td>
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<tr>
<td>Solar/Wind/Other*</td>
<td>11</td>
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<td>347</td>
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<td>Biofuels and Waste*</td>
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<td>786</td>
<td>961</td>
<td>1087</td>
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<td>27</td>
<td>26</td>
<td>27</td>
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<td>Other</td>
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<td>602</td>
<td>640</td>
<td>740</td>
<td>855</td>
<td>889</td>
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<td>13386</td>
<td>14233</td>
<td>13742</td>
<td>14430</td>
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</table>

**TOTAL 2018: 15023 PJ**

* Partial disaggregation of the Renewables group. Waste also includes non-RES wastes.

Source: IEA Statistics, August 2020

Methodology and Notes: See Appendices
1.1.9 World CO₂ Emissions by Region

(Mio ton CO₂)

<table>
<thead>
<tr>
<th>Region</th>
<th>2000</th>
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<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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<td>3391</td>
<td>3136</td>
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<td>United States</td>
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<td>Asia*</td>
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<td>4921</td>
<td>5695</td>
<td>5978</td>
<td>6168</td>
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<td>Middle East</td>
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<td>1493</td>
<td>1748</td>
<td>1781</td>
<td>1773</td>
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<td>Russian Federation</td>
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<td>1587</td>
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<td>Africa</td>
<td>663</td>
<td>869</td>
<td>1025</td>
<td>1166</td>
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<td>1245</td>
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<td>World bunkers**</td>
<td>855</td>
<td>991</td>
<td>1119</td>
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<tr>
<td>Rest of the World</td>
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<td>30582</td>
<td>32366</td>
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**Total 2018: 33 513 Mio ton CO₂**

<table>
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<th>Region</th>
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<td>China</td>
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<tr>
<td>United States</td>
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<td>Asia*</td>
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<td>Middle East</td>
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<tr>
<td>Russian Federation</td>
<td>5%</td>
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<td>Africa</td>
<td>18%</td>
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<tr>
<td>World bunkers**</td>
<td>15%</td>
</tr>
<tr>
<td>Rest of the World</td>
<td>29%</td>
</tr>
</tbody>
</table>

* non OECD and OECD Asia, excluding China.
** International aviation and international navigation.
Sources: IEA Statistics, May 2020, estimates of world CO₂ emissions from fuel combustion
Methodology and Notes: See Appendices
1.1.10 World CO₂ Intensity* by Region

(Kg CO₂ per toe – Average)

<table>
<thead>
<tr>
<th>Region</th>
<th>2000</th>
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<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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<td>3.120</td>
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<td>Rest of the World</td>
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<td>2.383</td>
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</table>

WORLD AVERAGE 2018: 2347 Kg CO₂ per toe

* CO₂ Emissions from Fuel Combustion per Unit of Total Energy Supply.
** Non OECD and OECD Asia, excluding China and Middle East.
*** International aviation and international navigation.

Methodology and Notes: See Appendices
1.2 Energy in the EU (Overview)

1.2.1 EU27_2020 Energy Flow – 2000 (Mtoe)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
1.2.2 EU27_2020 Energy Flow – 2018 (Mtoe)

- **Total Production:** 636.5
- **Net Imports:** 885.8
- **International Maritime Bunkers:** 43.3
- **International Aviation:** 40.9
- **Gross available Energy:** 1,522.6
- **Gross Inland Consumption:** 1,479.3
- **Transformation Input:** 1,374.9
- **Transformation Output:** 1,062.9
- **Transformation Losses:** 312.1
- **Final Energy Consumption:** 939.7
- **Final Non-Energy Consumption:** 91.1
- **Distribution Losses:** 22.9
- **Consumption in Energy Sector:** 67.9
- **Gross available Energy:** 1,522.6
- **Gross Inland Consumption:** 1,479.3
- **Transformation Input:** 1,374.9
- **Transformation Output:** 1,062.9
- **Transformation Losses:** 312.1
- **Final Energy Consumption:** 939.7
- **Final Non-Energy Consumption:** 91.1
- **Distribution Losses:** 22.9
- **Consumption in Energy Sector:** 67.9

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
1.2.3 EU27_2020 Gross Inland Consumption

ENERGY MIX (%) – PRIMARY PRODUCTS ONLY

TOTAL PRIMARY PRODUCTS 2000: 1,497.4 Mtoe
(Total Primary and Secondary Products 2000: 1,498.2 Mtoe)

TOTAL PRIMARY PRODUCTS 2018: 1,477.9 Mtoe
(Total Primary and Secondary Products 2018: 1,479.3 Mtoe)

* Others = manufactured gases, peat and peat products, oil shale and oil sands.

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
1.2.3 EU27_2020 – Gross Inland Consumption

ENERGY MIX* – 2018 (%)

<table>
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<th>Natural Gas</th>
<th>Solid Fossil Fuels</th>
<th>Others**</th>
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<td>EU28</td>
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* Primary Products Only.
**Others = manufactured gases, peat and peat products, oil shale and oil sands.

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
1.2.4 EU27_2020 Energy Import Dependency

BY FUEL – (%)

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<tr>
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<tbody>
<tr>
<td>Total</td>
<td>56.3</td>
<td>57.8</td>
<td>55.7</td>
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<td>Solid Fossil Fuels</td>
<td>29.8</td>
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<td>38.2</td>
<td>40.9</td>
<td>43.3</td>
<td>43.6</td>
</tr>
<tr>
<td>of which Hard Coal</td>
<td>43.2</td>
<td>52.5</td>
<td>57.7</td>
<td>62.9</td>
<td>67.7</td>
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<td>Oil and Petroleum Products</td>
<td>93.3</td>
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<td>94.0</td>
<td>96.7</td>
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<td>94.6</td>
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<tr>
<td>of which Crude and NGL</td>
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<tr>
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<td>74.5</td>
<td>80.2</td>
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</table>

2000-2018 (%)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
1.2.5 EU27_2020 Energy Import Dependency – Net Imports

2018

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
### 1.2.6 EU27_2020 Imports by Country of Origin

#### EU27_2020 IMPORTS* OF NATURAL GAS – 2018
Total extra-EU = 14 108 044.3 TJ-GCV (371.4bn m³)

<table>
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<tr>
<th>Country</th>
<th>Percentage</th>
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</thead>
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</tr>
<tr>
<td>Norway</td>
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</tr>
<tr>
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<td>Algeria</td>
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<td>Qatar</td>
<td>4.6%</td>
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<tr>
<td>Nigeria</td>
<td>3.0%</td>
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<tr>
<td>UK</td>
<td>2.4%</td>
</tr>
<tr>
<td>Libya</td>
<td>1.2%</td>
</tr>
<tr>
<td>Other extra-EU</td>
<td>2.2%</td>
</tr>
</tbody>
</table>

#### EU27_2020 IMPORTS* OF CRUDE OIL AND NGL – 2018
Total extra-EU = 514 810.7 kton

<table>
<thead>
<tr>
<th>Country</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
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<td>29.5%</td>
</tr>
<tr>
<td>Iraq</td>
<td>8.6%</td>
</tr>
<tr>
<td>Norway</td>
<td>7.5%</td>
</tr>
<tr>
<td>Saudi Arabia</td>
<td>7.3%</td>
</tr>
<tr>
<td>Kazakhstan</td>
<td>7.2%</td>
</tr>
<tr>
<td>Nigeria</td>
<td>7.0%</td>
</tr>
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#### EU27_2020 IMPORTS* OF HARD COAL – 2018
Total extra-EU = 144 026.6 kton

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* From non-EU suppliers and as a share of total non-EU imports.
Source: Eurostat, May 2020
Methodology and Notes: See Appendices
## 1.3 EU 2020–2030 Targets

### 1.3.1 Renewable Energy (RE) Shares & Targets*

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| EU28                        | 8.0          | 32.1            | 19.7             | 18.0             | n.a.            | 20.0            |

* In % of the Gross Final Energy Consumption.

Source: Eurostat-RES SHARES, March 2020
Methodology and Notes: See Appendices
1.3.1 Renewable Energy Shares & Targets*

OVERALL RENEWABLE ENERGY SHARE 2018 & TARGETS (%)

* In Gross Final Energy Consumption.

Source: Eurostat-RES SHARES, March 2020

Methodology and Notes: See Appendices
1.3.2 Renewable Energy Shares*

RES SHARES IN HEATING AND COOLING, ELECTRICITY, AND TRANSPORT – 2018 (%)

* In Gross Final Energy Consumption.

Source: Eurostat-RES SHARES, March 2020
Methodology and Notes: See Appendices
1.3.3 EU 2020-2030 Milestones & Targets

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PRIMARY ENERGY CONSUMPTION – 2020-2030

* Milestone for EU27_2020, based on the Target for EU28.

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
1.3.3 EU 2020-2030 Milestones & Targets

FINAL ENERGY CONSUMPTION 2020-2030

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* Milestone for EU27_2020, based on the Target for EU28.

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
1.3.4 EU 2020-2030 Targets*

**GHG EMISSIONS MILESTONES & TARGETS**

*(index 100=1990)*

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* Milestone for EU27_2020, based on the Target for EU28.

Source: EEA, June 2020, Eurostat 2020

Methodology and Notes: See Appendices
Energy in the EU
Summary

2.1 Energy Supply ......................................................... 37
  2.1.1 Production ....................................................... 37
  2.1.2 Net Imports ..................................................... 40
  2.1.3 Gross Available Energy ....................................... 43
  2.1.4 Gross Inland Consumption ................................. 44
  2.1.5 Total Energy Supply ........................................... 48

2.2 Energy Imports ....................................................... 49
  2.2.1 Imports – Solid Fossil Fuels .................................. 49
  2.2.2 Imports – Oil and Petroleum Products ..................... 54
  2.2.3 Imports – Natural Gas .......................................... 59
  2.2.4 Imports – Electricity ............................................ 63
  2.2.5 Imports by Country of Origin ............................... 67

2.3 Energy Import Dependency ......................................... 71
  2.3.1 Import Dependency – All Fuels ............................... 71
  2.3.2 Import Dependency by Fuel .................................. 72
  2.3.3 Import Dependency – Solid Fossil Fuels .................... 73
  2.3.4 Import Dependency – Hard Coal ............................. 74
  2.3.5 Import Dependency – Oil and Petroleum Products ....... 75
  2.3.6 Import Dependency – Crude and NGL ...................... 76
  2.3.7 Import Dependency – Natural Gas ......................... 77

2.4 Energy Transformation ............................................... 78
  2.4.1 Transformation Input – All Fuels ............................ 78
  2.4.2 Transformation Input by Fuel ................................ 79
  2.4.3 Transformation Input by Sector .............................. 80
  2.4.4 Transformation Output – All Fuels ......................... 81
  2.4.5 Transformation Output by Fuel .............................. 82
  2.4.6 Transformation Output by Sector ............................ 83

2.5 Final Energy ............................................................ 84
  2.5.1 Available for Final Consumption ......................... 84
  2.5.2 Final Non-Energy Consumption ......................... 85
  2.5.3 Final Energy Consumption ................................. 86

2.6 Electricity .............................................................. 90
  2.6.1 Installed Electricity Capacity ............................... 90
  2.6.2 Gross Electricity Generation .............................. 93
  2.6.3 Market Share of the Largest Electricity Producer ....... 98
<table>
<thead>
<tr>
<th>Chapter 2.7</th>
<th>Solar and Wind Energy</th>
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* Primary production, recycled and recovered products.

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
### 2.1.1 Production*

#### BY FUEL

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* Primary production, recycled and recovered products.

**Source:** Eurostat, May 2020

**Methodology and Notes:** See Appendices
2.1.1 Production*

BY FUEL – EU27_2020 – 1990-2018 (Mtoe)


Total = 636.5 Mtoe

* Primary production, recycled and recovered products.
Source: Eurostat, May 2020
Methodology and Notes: See Appendices
## 2.1.2 Net Imports

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### NET IMPORTS – ALL FUELS – 1990–2018 (Mtoe)

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
2.1.2 Net Imports

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.1.2 Net Imports

BY FUEL – EU27_2020 – 1990-2018 (Mtoe)

Total = 885.8 Mtoe

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
## 2.1.3 Gross Available Energy

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### GROSS AVAILABLE ENERGY – ALL FUELS – 1990–2018 (Mtoe)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
### 2.1.4 Gross Inland Consumption

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**GROSS INLAND CONSUMPTION – ALL FUELS – 1990-2018 (Mtoe)**

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
2.1.4 Gross Inland Consumption

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* Others = manufactured gases, peat and peat products, oil shale and oil sands.

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
### 2.1.4 Gross Inland Consumption

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.1.4 Gross Inland Consumption

BY FUEL – EU27_2020 – 1990-2018 (Mtoe)

GROSS INLAND CONSUMPTION – BY FUEL – EU27_2020 – 2018 (% TOTAL)

Total = 1 479.3 Mtoe

- Oil and Petroleum Products: 34.1%
- Renewables and Biofuels: 15.0%
- Nuclear: 14.2%
- Waste, Non-Renewable: 22.0%
- Others*: 0.5%
- Electricity: 0.9%

* Others = manufactured gases, peat and peat products, oil shale and oil sands.

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.1.5 Total Energy Supply

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**TOTAL ENERGY SUPPLY — ALL FUELS — 1990-2018 (Mtoe)**

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
## 2.2 Energy Imports

### 2.2.1 Imports – Solid Fossil Fuels

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#### Imports - Solid Fossil Fuels

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
### 2.2.1 Imports – Solid Fossil Fuels

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*Source: Eurostat, May 2020
Methodology and Notes: See Appendices*
## 2.2.1 Imports – Solid Fossil Fuels

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.2.1 Imports – Solid Fossil Fuels

BY MEMBER STATE – TOP 14 IMPORTERS
1990-2018 (Mtoe)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.2.1 Imports – Solid Fossil Fuels

BY MEMBER STATE – LEAST 13 IMPORTERS
1990-2018 (Mtoe)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
### 2.2.2 Imports – Oil and Petroleum Products

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
## 2.2.2 Imports – Oil and Petroleum Products

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### IMPORTS – CRUDE OIL AND NGL – 1990-2018 (Mtoe)

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
### 2.2.2 Imports – Oil and Petroleum Products

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**Of which: Crude Oil and NGL**

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.2.2 Imports – Oil and Petroleum Products

BY MEMBER STATE – TOP 14 IMPORTERS
1990-2018 (Mtoe)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.2.2 Imports – Oil and Petroleum Products

BY MEMBER STATE – LEAST 13 IMPORTERS
1990-2018 (Mtoe)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
### 2.2.3 Imports – Natural Gas

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Source: Eurostat, May 2020

Methodology and Notes: See Appendices
### 2.2.3 Imports – Natural Gas

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| Top 5 Total | 173.3 | 72.1% | 243.8 | 74.0% |
| Total EU27_2020 | 240.4 | 100.0% | 329.6 | 100.0% |

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.2.3 Imports – Natural Gas

BY MEMBER STATE – TOP 14 IMPORTERS
1990-2018 (Mtoe)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.2.3 Imports – Natural Gas

BY MEMBER STATE – LEAST 13 IMPORTERS
1990-2018 (Mtoe)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
## 2.2.4 Imports – Electricity

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**Source:** Eurostat, May 2020

**Methodology and Notes:** See Appendices
## 2.2.4 Imports – Electricity

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.2.4 Imports – Electricity

BY MEMBER STATE – TOP 14 IMPORTERS
1990-2018 (Mtoe)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.2.4 Imports – Electricity

BY MEMBER STATE – LEAST 13 IMPORTERS
1990-2018 (Mtoe)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.2.5 Imports by Country of Origin

**EU27_2020 – HARD COAL**
**TOP 15 ORDERED BY 2018 VOLUME**

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<td>16987</td>
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<tr>
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**Source:** Eurostat, May 2020

**Methodology and Notes:** See Appendices
2.2.5 Imports by Country of Origin

EU27_2020 – CRUDE OIL & NGL
TOP 15 ORDERED BY 2018 VOLUME

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<td>43,892</td>
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<td>42,990</td>
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<td>19,746</td>
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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
### 2.2.5 Imports by Country of Origin

**EU27_2020 – NATURAL GAS**  
**TOP 8 ORDERED BY 2018 VOLUME**

<table>
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**EU27_2020 – NATURAL GAS – IMPORTS FROM EXTRA-EU (1990-2018) TOP 5 BY 2018 VOLUME (Mio m³)**

Source: Eurostat, May 2020  
Methodology and Notes: See Appendices
2.2.5 Imports by Country of Origin

**EU27_2020 – LNG**

**TOP 8 ORDERED BY 2018 VOLUME**

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<td>Nigeria</td>
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<td>436,319</td>
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<td>404,227</td>
<td>421,507</td>
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<td>758,810</td>
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<td>345,810</td>
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Source: Eurostat, January 2020
Methodology and Notes: See Appendices
## 2.3 Energy Import Dependency

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* Negative Rate Indicates a Net Exporter.  
Values Over 100% Indicate Stocks Build Up.  
EU27_2020 and EU28: imports from extra-EU  
Source: Eurostat, May 2020  
Methodology and Notes: See Appendices
2.3.2 Import Dependency by Fuel

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* Negative Rate Indicates a Net Exporter.

Values Over 100% Indicate Stocks Build Up.

EU27_2020 and EU28: imports from extra-EU

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
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* Negative Rate Indicates a Net Exporter.
Values Over 100% Indicate Stocks Build Up.
EU27_2020 and EU28: imports from extra-EU

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
### 2.3.5 Import Dependency – Oil and Petroleum Products *

*(%)*

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#### Intra and Extra-EU Imports

| EU27_2020 | 93.3 | 93.9 | 94.0 | 96.7 | 93.8 | 94.6 |

* Negative Rate Indicates a Net Exporter.

**Values Over 100 % Indicate Stocks Build Up.**

EU27_2020 and EU28: imports from extra-EU

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

---

* Negative Rate Indicates a Net Exporter.

**Values Over 100 % Indicate Stocks Build Up.**

EU27_2020 and EU28: imports from extra-EU

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

---

* Negative Rate Indicates a Net Exporter.

**Values Over 100 % Indicate Stocks Build Up.**

EU27_2020 and EU28: imports from extra-EU

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)
### Import Dependency – Crude and NGL* (%)

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* Negative Rate Indicates a Net Exporter.
Values Over 100% Indicate Stocks Build Up.
EU27_2020 and EU28: imports from extra-EU

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
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* Negative Rate Indicates a Net Exporter.
Values Over 100% Indicate Stocks Build Up.
EU27_2020 and EU28: imports from extra-EU
Source: Eurostat, May 2020
Methodology and Notes: See Appendices
PART 2  
Energy in the EU

2.4 Energy Transformation

2.4.1 Transformation Input – All Fuels

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
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| UK      | 147.60| 139.03| 123.66| 108.33| 106.06| 104.09|
| EU28    | 1179.41| 1228.96| 1182.88| 1153.80| 1175.44| 1166.94|

**Source:** Eurostat, May 2020

**Methodology and Notes:** See Appendices
## 2.4.5 Transformation Output by Fuel

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| UK      | 104.09                | 1.08              | 70.36                    | 0.25        | 1.30                  | 28.44       | 1.58 |
| EU28    | 1 166.94              | 30.76             | 759.11                   | 0.63        | 16.50                 | 281.75      | 57.92|

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
### 2.4.6 Transformation Output by Sector

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
## 2.5 Final Energy

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Source: Eurostat, January 2020
Methodology and Notes: See Appendices
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**Source:** Eurostat, May 2020  
**Methodology and Notes:** See Appendices
2.5.3 Final Energy Consumption

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**FINAL ENERGY CONSUMPTION – TOTAL – 1990-2018 (Mtoe)**

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
### 2.5.3 Final Energy Consumption

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Source: Eurostat, May 2020  
Methodology and Notes: See Appendices
## 2.5.3 Final Energy Consumption
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| CZ  | 6.69  | 6.66 | 7.04 | 3.13 | 0.62 | 0.04 |
| DK  | 2.34  | 4.42 | 4.58 | 2.00 | 0.71 | 0.03 |
| DE  | 57.40 | 55.72 | 55.26 | 29.08 | 3.34 | 0.08 |
| EE  | 0.49  | 0.83 | 0.94 | 0.49 | 0.12 | 0.01 |
| IE  | 2.60  | 4.11 | 2.78 | 1.48 | 0.25 | 0.00 |
| EL  | 2.74  | 5.90 | 3.92 | 2.10 | 0.28 | 0.23 |
| ES  | 20.22 | 32.53 | 15.01 | 11.18 | 2.75 | 0.32 |
| FR  | 27.26 | 45.31 | 39.06 | 23.28 | 4.40 | 0.52 |
| HR  | 1.19  | 2.14 | 2.30 | 0.82 | 0.23 | 0.00 |
| IT  | 24.30 | 35.58 | 32.06 | 19.34 | 3.03 | 0.11 |
| CY  | 0.23  | 0.68 | 0.34 | 0.28 | 0.04 | 0.02 |
| LV  | 0.90  | 1.11 | 1.23 | 0.59 | 0.19 | 0.01 |
| LT  | 1.11  | 2.08 | 1.49 | 0.65 | 0.11 | 0.01 |
| LU  | 0.63  | 2.10 | 0.50 | 0.48 | 0.02 | 0.00 |
| HU  | 4.45  | 4.81 | 5.82 | 2.10 | 0.64 | 0.04 |
| MT  | 0.06  | 0.23 | 0.09 | 0.13 | 0.01 | 0.00 |
| NL  | 13.69 | 10.83 | 9.65 | 6.89 | 3.80 | 0.07 |
| AT  | 7.72  | 8.78 | 6.49 | 2.51 | 0.53 | 0.00 |
| PL  | 16.36 | 22.41 | 19.31 | 7.98 | 3.92 | 0.00 |
| PT  | 4.58  | 5.86 | 2.92 | 2.35 | 0.46 | 0.03 |
| RO  | 6.61  | 6.30 | 7.78 | 1.98 | 0.57 | 0.21 |
| SI  | 1.39  | 1.97 | 1.07 | 0.43 | 0.07 | 0.02 |
| SK  | 3.66  | 2.74 | 2.06 | 1.31 | 0.13 | 0.00 |
| FI  | 11.14 | 4.24 | 5.69 | 3.08 | 0.72 | 0.21 |
| SE  | 11.01 | 7.15 | 7.49 | 4.12 | 0.65 | 1.35 |
| UK  | 21.42 | 41.81 | 37.99 | 17.99 | 1.50 | 1.23 |
| EU28 | 263.59 | 328.59 | 283.19 | 151.59 | 30.08 | 4.59 |

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.5.3 Final Energy Consumption

BY SECTOR – EU27_2020 – 1990-2018 (Mtoe)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.6 Electricity

2.6.1 Installed Electricity Capacity

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**INSTALLED ELECTRICITY CAPACITY – TOTAL – 1990-2018 (MW)\(^*\)**

* *Incomplete datasets between 1990-2004 affect the EU27_2020 and EU28 aggregates.*

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
## 2.6.1 Installed Electricity Capacity

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
## 2.6.1 Installed Electricity Capacity *

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* Net maximum capacity.

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
### 2.6.2 Gross Electricity Generation

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
### 2.6.2 Gross Electricity Generation

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Source: Eurostat, May 2020

Methodology and Notes: See Appendices
### 2.6.2 Gross Electricity Generation

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.6.2 Gross Electricity Generation

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.6.2 Gross Electricity Generation

EU27_2020 – BY FUEL – ALL FUELS – 1990-2018 (TWh)

Methodology and Notes: See Appendices

Source: Eurostat, May 2020
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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
## 2.7 Solar and Wind Energy

### 2.7.1 Solar and Wind Energy – Cumulative Capacity

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### SOLAR AND WIND ENERGY – CUMULATIVE CAPACITY – TOTAL – 1990-2018 (MW)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
### 2.7.1 Solar and Wind Energy – Cumulative Capacity

**SHARE OF TOTAL INSTALLED ELECTRICITY CAPACITY**

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### SOLAR AND WIND ENERGY – CUMULATIVE CAPACITY – SHARE OF TOTAL – 1990-2018 (%)

*Source: Eurostat, May 2020*

*Methodology and Notes: See Appendices*
2.7.2 Wind Cumulative Installed Capacity

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**Source:** Eurostat, May 2020

**Methodology and Notes:** See Appendices
### Wind Cumulative Installed Capacity

**SHARE OF TOTAL INSTALLED ELECTRICITY CAPACITY**

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Source: Eurostat, May 2020

Methodology and Notes: See Appendices –
## 2.7.3 Wind Gross Electricity Production

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### WIND GROSS ELECTRICITY PRODUCTION – TOTAL – 1990-2018 (TWh)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
### 2.7.4 Wind Penetration Level

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
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Source: Eurostat, May 2020

Methodology and Notes: See Appendices
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**SOLAR THERMAL COLLECTORS – 1990-2018 (1000 m²)**

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
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**Solar Installed Capacity – Total – 1990-2018 (MW)**

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
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| EU28     | 0.1  | 1.5  | 23.3 | 108.4| 119.4| 127.8|

#### SOLAR GROSS ELECTRICITY PRODUCTION – TOTAL – 1990-2018 (TWh)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
### 2.7.9 Solar Penetration Level
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Source: Eurostat, May 2020  
Methodology and Notes: See Appendices
## 2.8 CHP

### 2.8.1 CHP Electricity*

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* Preliminary data for 2018.

Source: Eurostat, July 2020

Methodology and Notes: See Appendices
### 2.8.2 CHP Heat*

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* Preliminary data for 2018.
Source: Eurostat, July 2020
Methodology and Notes: See Appendices
2.8.3 CHP Electricity and Heat

EU27_2020 – CHP ELECTRICITY AND HEAT GENERATION (PJ)*

* Data before 2009 is not consistent across the EU28.

Source: Eurostat, July 2020
Methodology and Notes: See Appendices
### 2.9 Heat*

#### 2.9.1 Gross Heat Generation

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* Only Heat sold, as considered currently in the energy balances.

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
### 2.9.1 Gross Heat Generation

#### BY FUEL

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.9.1 Gross Heat Generation


Source: Eurostat, May 2020
Methodology and Notes: See Appendices
## 2.10 Transport

### 2.10.1 Fuels Final Consumption

#### PETROLEUM PRODUCTS AND BIOFUELS – EU27_2020

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![Graph showing fuel consumption trends from 1990 to 2018](image)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices

116
### 2.10.2 Biofuels

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Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.10.2 Biofuels


Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.11 Energy Efficiency

2.11.1 Primary Energy Consumption 2020-2030*

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| CZ | 39.1 | 42.5 | 42.7 | 39.8 | 40.4 | 40.4 |
| DK | 19.1 | 19.4 | 20.0 | 16.9 | 17.7 | 17.8 |
| DE | 317.1| 321.6| 315.2| 295.9| 298.1| 291.7|
| EE | 4.6  | 5.1  | 5.6  | 5.3  | 5.6  | 6.2  |
| IE | 13.7 | 14.9 | 14.7 | 13.9 | 14.4 | 14.5 |
| EL | 27.2 | 30.3 | 27.2 | 23.4 | 23.2 | 22.6 |
| ES | 114.5| 136.0| 122.9| 118.0| 125.2| 124.6|
| FR | 239.8| 260.9| 254.4| 244.4| 239.2| 238.9|
| HR | 7.8  | 9.1  | 8.9  | 8.0  | 8.3  | 8.2  |
| IT | 166.1| 180.8| 167.3| 149.1| 148.9| 147.2|
| CY | 2.3  | 2.5  | 2.7  | 2.3  | 2.5  | 2.5  |
| LV | 3.8  | 4.5  | 4.6  | 4.3  | 4.5  | 4.7  |
| LT | 6.5  | 8.0  | 6.2  | 5.8  | 6.2  | 6.3  |
| LU | 3.6  | 4.8  | 4.6  | 4.1  | 4.3  | 4.5  |
| HU | 23.6 | 26.3 | 24.6 | 23.3 | 24.5 | 24.5 |
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| PL | 84.8 | 88.0 | 96.6 | 90.1 | 99.2 | 101.1|
| PT | 23.0 | 24.9 | 22.6 | 21.6 | 22.8 | 22.7 |
| RO | 34.9 | 36.1 | 32.9 | 30.7 | 32.5 | 32.6 |
| SI | 6.2  | 7.0  | 7.0  | 6.3  | 6.7  | 6.7  |
| SK | 16.4 | 17.4 | 16.7 | 15.2 | 16.1 | 15.8 |
| FI | 31.6 | 33.6 | 35.5 | 31.2 | 32.1 | 32.7 |
| SE | 46.0 | 49.3 | 48.6 | 43.9 | 46.4 | 47.0 |

UK | 222.0 | 223.5 | 205.1 | 182.5 | 176.7 | 176.1 |
EU28 | 1619.0 | 1721.0 | 1663.5 | 1536.2 | 1561.7 | 1551.8 |

* This indicator should be used also for tracking progress towards Europe 2020-2030 energy efficiency targets. This indicator is in line to the previous Eurostat methodology, which was used to calculate the targets.

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.11.2 Final Energy Consumption 2020-2030*

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* This indicator should be used also for tracking progress towards Europe 2020-2030 energy efficiency targets. This indicator is in line to the previous Eurostat methodology, which was used to calculate the targets.

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
2.11.3 Energy Intensity

ALL FUELS

EU27_2020  152   149   138   122   120   116
Index 2000  100%  98%  91%  80%  79%  77%

BE  197   184   176   144   149   147
BG  692   566   431   411   387   377
CZ  364   331   294   251   241   235
DK  88    81    82    66    65    64
DE  135   133   123   106   102   98
EE  384   301   333   275   269   279
IE  101   84    80    55    50    47
EL  173   154   143   146   148   142
ES  149   148   128   121   120   118
FR  140   140   130   119   113   111
HR  241   225   211   191   187   178
IT  106   110   105   95    95    93
CY  187   167   152   143   142   140
LV  273   231   238   190   186   180
LT  367   312   233   195   197   193
LU  106   120   103   80    78    79
HU  305   278   262   225   223   212
MT  246   241   327   238   269   262
NL  157   160   150   128   125   120
AT  104   112   107   98    97    92
PL  355   316   275   223   227   219
PT  149   154   132   135   134   128
RO  402   321   253   199   187   179
SI  221   212   190   168   167   161
SK  410   338   252   204   206   195
FI  189   176   176   156   155   155
SE  150   144   129   108   111   108

UK  116   102   90    73    69    67
EU28 146   141   130   113   111   108

ENERGY INTENSITY – ALL FUELS – 1990–2018
(toe/M€ ’2015)

Sources: Eurostat, DG Economic and Financial Affairs, May 2020
Methodology and Notes: See Appendices
### 2.11.4 Energy Consumption per Capita

**GROSS INLAND CONSUMPTION – ALL FUELS**

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**Source:** Eurostat, May 2020

Methodology and Notes: See Appendices
2.11.5 Final Electricity Consumption per Capita

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FINAL ELECTRICITY CONSUMPTION PER CAPITA – ALL FUELS – 1990-2018 (kWh/cap)

Source: Eurostat, May 2020
Methodology and Notes: See Appendices
2.11.6 Primary Energy Intensity 2020-2030*

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**PRIMARY ENERGY INTENSITY – ALL FUELS – 1990-2018 (toe/M€ ’2015)**

EU27_2020

* Ratio between primary energy consumption 2020-2030 and GDP chain linked 2010.

Sources: Eurostat, DG Economic and Financial Affairs, May 2020
Methodology and Notes: See Appendices
## 2.11.7 Greenhouse Gas (GHG) Intensity of Energy

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### GHG INTENSITY OF ENERGY – 1990-2018 (kg CO₂/toe)

Sources: EEA - June 2020, Eurostat 2020
Methodology and Notes: See Appendices
### 2.12 Renewable Energy (RES) Indicators

#### 2.12.1 Renewable Energy (RES) Shares*

**OVERALL AND HEATING & COOLING**

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* Of the Gross Final Energy.

** Break in Series between 2010 and 2011 due to the Application of the Biofuels Compliance Rules.

Source: Eurostat-RES SHARES, March 2020

Methodology and Notes: See Appendices
## 2.12.1 Renewable Energy (RES) Shares*

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* Of the Gross Final Energy.
** Break in Series between 2010 and 2011 due to the Application of the Biofuels Compliance Rules.

Source: Eurostat-RES SHARES, March 2020

Methodology and Notes: See Appendices
2.12.1 Renewable Energy (RES) Shares*

IN THE GROSS FINAL ENERGY CONSUMPTION – EU27_2020 (%)

* Break in Series between 2010 and 2011 due to the Application of the Biofuels Compliance Rules.

Source: Eurostat-RES SHARES, March 2020
Methodology and Notes: See Appendices
2.13 Energy Prices and Taxes

2.13.1 Prices of Transport Fuels

**AUTOMOTIVE DIESEL OIL – ALL TAXES INCLUDED***

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* First semester 2020 (06/01/20-29/06/20).
Sources: DG Energy, Member States, Weekly Oil Bulletin 2020
Methodology and Notes: See Appendices
### 2.13.1 Prices of Transport Fuels

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* First semester 2020 (06/01/20–29/06/20).
Sources: DG Energy, Member States, Weekly Oil Bulletin 2020
Methodology and Notes: See Appendices
2.13.1 Prices of Transport Fuels

CONSUMER PRICES OF PETROLEUM PRODUCTS*
EU WEIGHTED AVERAGE (€ PER LITRE)

- Euro-Super 95
- Automotive Diesel Oil
- Heating Gas Oil
- LPG

* First semester 2020 (06/01/20-29/06/20).
All Taxes Included, weekly prices.
Incomplete series for the period 2005-2013 due to later accession to the EU of Bulgaria, Croatia and Romania.

Sources: DG Energy, Member States, Weekly Oil Bulletin 2020
Methodology and Notes: See Appendices
## 2.13.2 Fuel Prices* – Domestic Consumers

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* All Taxes and Levies Included  
** Prices from second semester each year.  
Source: Eurostat, May 2020  
Methodology and Notes: See Appendices
## 2.13.2 Fuel Prices*– Domestic Consumers

**ELECTRICITY – BAND DC**

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* All Taxes and Levies Included.

** Prices from second semester each year.

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
### 2.13.3 Fuel Prices*– Industrial Consumers

**GAS – BAND I3**  
10000 GJ < CONSUMPTION < 100000 GJ  
2ND SEMESTER**

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* Excluding VAT and other recoverable Taxes and Levies.  
** Prices from second semester each year.  
Source: Eurostat, May 2020  
Methodology and Notes: See Appendices
### 2.13.3 Fuel Prices* – Industrial Consumers

#### ELECTRICITY – BAND IC

500 MWh < CONSUMPTION < 2000 MWh

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* Excluding VAT and other recoverable Taxes and Levies.

** Prices from second semester each year.

Source: Eurostat, May 2020

Methodology and Notes: See Appendices
Socio-Economic Indicators in the EU
## Summary

3.1 Classification of the Energy Sector ........................................... 140  
3.1.1 Comparative table with EUROSTAT and UN classifications ... 140  

3.2 Enterprises in the Energy Sector ........................................... 141  
3.2.1 Number of Enterprises in the Energy Sector ...................... 141  
3.2.2 Turnover in the Energy Sector ........................................ 145  
3.2.3 Number of Persons Declared as Employed in the Energy Sector 149  

3.3 Economy ........................................................................... 153  
3.3.1 GDP at Current Prices ................................................... 153  
3.3.2 GDP per Capita at Current Prices .................................... 154  
3.3.3 GDP at 2015 Prices .................................................... 155  
3.3.4 GDP per Capita at 2015 Prices ....................................... 156  

3.4 Demography ....................................................................... 157  
3.4.1 Population .................................................................... 157  

3.5 Employment ....................................................................... 158  
3.5.1 Total Persons Employed in the Energy Sector (15–64 years) ... 158  
3.5.2 Employment Rate in all Economic Sectors ....................... 159  
3.5.3 Unemployment Rate in all Economic Sectors .................... 160
### 3.1 Classification of the Energy Sector*

#### 3.1.1 Comparative table with EUROSTAT and UN classifications

**EUROSTAT (NACE) AND UN (ISIC) CLASSIFICATIONS**

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* Broad Definition, The Narrow Definition only includes Division D35.

Sources: Eurostat, UN, May 2020

Methodology and Notes: [See Appendices](#)
3.2 Enterprises in the Energy Sector

3.2.1 Number of Enterprises in the Energy Sector

**ENTERPRISES SURVEY – EU27_2020**

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Broad Sector – no. of Enterprises Reported 100 215 102 092 100 403

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2020
Methodology and Notes: See Appendices
### 3.2.1 Number of Enterprises in the Energy Sector

**ENTERPRISES SURVEY**

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**Source:** Eurostat, Structural Business Statistics Survey (SBS), May 2020

Methodology and Notes: See Appendices
### 3.2.1 Number of Enterprises in the Energy Sector

**ENTERPRISES SURVEY**

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**Source:** Eurostat, Structural Business Statistics Survey (SBS), May 2020

**Methodology and Notes:** See Appendices
### Number of Enterprises in the Energy Sector

**ENTERPRISES SURVEY**

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Source: Eurostat, Structural Business Statistics Survey (SBS), May 2020
Methodology and Notes: See Appendices
### 3.2.2 Turnover in the Energy Sector

**ENTREPRISES SURVEY – EU27_2020**

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Source: Eurostat, Structural Business Statistics Survey (SBS), May 2020

Methodology and Notes: See Appendices
## 3.2.2 Turnover in the Energy Sector

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Methodology and Notes: See Appendices
### 3.2.2 Turnover in the Energy Sector

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*Source: Eurostat, Structural Business Statistics Survey (SBS), May 2020*

*Methodology and Notes: See Appendices*
### 3.2.2 Turnover in the Energy Sector

#### ENTERPRISES SURVEY

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Source: Eurostat, Structural Business Statistics Survey (SBS), May 2020

Methodology and Notes: See Appendices
### 3.2.3 Number of Persons Declared as Employed in the Energy Sector

**ENTERPRISES SURVEY – EU27_2020**

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*Methodology and Notes: See Appendices*
### 3.2.3 Number of Persons Declared as Employed in the Energy Sector

**ENTERPRISES SURVEY**

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Methodology and Notes: See Appendices
3.2.3 Number of Persons Declared as Employed in the Energy Sector

**ENTREPRISES SURVEY**

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Source: Eurostat, Structural Business Statistics Survey (SBS), May 2020
Methodology and Notes: See Appendices
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**Italics, blue: DG Energy Estimates.**

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2020

Methodology and Notes: See Appendices
## 3.3 Economy

### 3.3.1 GDP at Current Prices

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* Units in Milliard – Long Scale = €1 000 Million.
Source: DG Economic and Financial Affairs, AMECO, May 2020
Methodology and Notes: See Appendices
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* €1 000’ per Capita.

Sources: DG Economic and Financial Affairs, AMECO, May 2020; Eurostat, Demography and Migration, May 2020

Methodology and Notes: See Appendices
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* Units in Milliard – Long Scale = €1 000 Million.

Sources: DG Economic and Financial Affairs, AMECO, May 2020; Eurostat, Demography and Migration, May 2020

Methodology and Notes: See Appendices
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* €1 000’ 2010 per Capita.

Sources: DG Economic and Financial Affairs, AMECO, May 2020; Eurostat, Demography and Migration, May 2020
Methodology and Notes: See Appendices
### 3.4 Demography

#### 3.4.1 Population

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Source: Eurostat, Demography and Migration, May 2020
Methodology and Notes: See Appendices
3.5 Employment

3.5.1 Total Persons Employed in the Energy Sector (15-64 years)

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* According to the Structural Business Survey (SBS), May 2020.
** Estimate of total employment as a sum of available figures presented in the table.


Source: Eurostat, Labour Force Survey (LFS), May 2020
Methodology and Notes: See Appendices
### 3.5.2 Employment Rate in all Economic Sectors *

**MEMBER STATES’ DATA – ALL SECTORS (15-64 YEARS)**

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* Percentage of active population.

Source: Eurostat, Labour Force Survey (LFS), May 2020

Methodology and Notes: See Appendices
### Unemployment Rate in all Economic Sectors

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* Percentage of active population.

Source: Eurostat, Labour Force Survey (LFS), May 2020

Methodology and Notes: See Appendices
Summary

4.1 Gases Emissions ................................................................. 164
  4.1.1 Greenhouse Gas (GHG) Emissions ................................. 164
    EU27_2020 and Member States – Total .................................. 164
    EU27_2020 and Member States – Energy related ........................ 165
    EU27_2020 and Member States – Not Energy related ................. 166
    EU27_2020 – Total and Energy related .................................. 167
    EU27_2020 – Not Energy related ........................................... 168
  4.1.2 CO₂ Emissions .............................................................. 169
    EU27_2020 and Member States – Total .................................. 169
    EU27_2020 and Member States – Energy related ........................ 170
    EU27_2020 and Member States – Not Energy related ................. 171
    EU27_2020 – Total and Energy related .................................. 172
    EU27_2020 – Not Energy related ........................................... 173

4.2 Main Emissions Indicators ................................................. 174
  4.2.1 Greenhouse Gas (GHG) Emissions per Capita ...................... 174
  4.2.2 Greenhouse Gas (GHG) Emissions to GDP Intensity ............... 175
### 4.1 Gases Emissions

#### 4.1.1 Greenhouse Gas (GHG) Emissions

**EU27_2020 AND MEMBER STATES – TOTAL**

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Index 1990 = 100.0%

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* GHG emissions without LULUCF, with indirect CO₂ and including international aviation.

Source: European Environment Agency, June 2020

Methodology and Notes: See Appendices
# 4.1.1 Greenhouse Gas (GHG) Emissions

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Source: European Environment Agency, June 2020
Methodology and Notes: See Appendices
### 4.1.1 Greenhouse Gas (GHG) Emissions

#### EU27_2020 AND MEMBER STATES – NOT ENERGY RELATED

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Source: European Environment Agency, June 2020

Methodology and Notes: See Appendices
### 4.1.1 Greenhouse Gas (GHG) Emissions

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*GHG emissions without LULUCF, with indirect CO₂ and including international aviation.

Source: European Environment Agency, June 2020

Methodology and Notes: See Appendices
### 4.1.1 Greenhouse Gas (GHG) Emissions

**EU27_2020 – NOT ENERGY RELATED**

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*GHGs emissions without LULUCF, with indirect CO₂ and including international aviation.

Source: European Environment Agency, June 2020

Methodology and Notes: See Appendices
### 4.1.2 CO₂ Emissions

**EU27_2020 AND MEMBER STATES – TOTAL**

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* CO₂ emissions without LULUCF, with indirect CO₂ and including international aviation.

Source: European Environment Agency, June 2020

Methodology and Notes: See Appendices
### 4.1.2 CO₂ Emissions

#### EU27_2020 AND MEMBER STATES – ENERGY RELATED

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Source: European Environment Agency, June 2020
Methodology and Notes: See Appendices
### 4.1.2 CO₂ Emissions

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Source: European Environment Agency, June 2020
Methodology and Notes: See Appendices
4.1.2 CO₂ Emissions

EU27_2020 – TOTAL AND ENERGY RELATED*

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CO₂ EMISSIONS – EU27_2020 – TOTAL AND ENERGY RELATED (MILLION ton CO₂)

* CO₂ emissions without LULUCF, with indirect CO₂ and including international aviation.

Source: European Environment Agency, June 2020

Methodology and Notes: See Appendices
### CO₂ Emissions

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**CO₂ EMISSIONS – EU27_2020 – NOT ENERGY RELATED**

(MILLION ton CO₂)

* CO₂ emissions without LULUCF, with indirect CO₂ and including international aviation.

Source: European Environment Agency, June 2020

Methodology and Notes: See Appendices
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Source: European Environment Agency, June 2020
Methodology and Notes: See Appendices
### 4.2.2 Greenhouse Gas (GHG) Emissions to GDP Intensity

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Source: European Environment Agency, June 2020
Methodology and Notes: See Appendices
Country Profiles

STATISTICAL POCKETBOOK 2020
## Summary

5.1 European Union – 27 (from 2020) ... EU27_2020 ............. 180
5.2 European Union – 28 (until 2020) ... EU28 ................. 182
5.3 Belgium ........................................... BE ................. 184
5.4 Bulgaria ............................................ BG ................. 186
5.5 Czechia ............................................. CZ ................. 188
5.6 Denmark ........................................... DK ................. 190
5.7 Germany ........................................... DE ................. 192
5.8 Estonia ............................................. EE ................. 194
5.9 Ireland ............................................. IE ................. 196
5.10 Greece ............................................. EL ................. 198
5.11 Spain .............................................. ES ................. 200
5.12 France ............................................. FR ................. 202
5.13 Croatia ............................................ HR ................. 204
5.14 Italy ................................................ IT ................. 206
5.15 Cyprus ............................................. CY ................. 208
5.16 Latvia ............................................. LV ................. 210
5.17 Lithuania ......................................... LT ................. 212
5.18 Luxembourg .................................... LU ................. 214
5.19 Hungary .......................................... HU ................. 216
5.20 Malta .............................................. MT ................. 218
5.21 Netherlands ................................... NL ................. 220
5.22 Austria ............................................ AT ................. 222
5.23 Poland ............................................. PL ................. 224
5.24 Portugal .......................................... PT ................. 226
5.25 Romania ......................................... RO ................. 228
5.26 Slovenia .......................................... SI ................. 230
5.27 Slovakia .......................................... SK ................. 232
5.28 Finland ........................................... FI ................. 234
5.29 Sweden ............................................ SE ................. 236
5.30 United Kingdom ............................... UK ................. 238

### European Union - 27 (from 2020)

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<th>2017</th>
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#### by Fuel/Product

| Solid Fossil Fuels            | 33.4  | 28.5  | 27.2  | 23.4  | 23.8  | 22.5  |
| Oil and Petroleum Products    | 397.4 | 405.2 | 366.2 | 338.9 | 346.0 | 345.1 |
| Natural Gas                   | 205.1 | 222.8 | 217.7 | 191.6 | 200.7 | 200.8 |
| **Renewables and Biofuels**   | 48.7  | 60.7  | 85.8  | 89.8  | 97.7  | 98.9  |
| Solid Biofuels and Renewable Waste | 46.6  | 55.1  | 67.8  | 65.8  | 67.4  | 66.3  |
| **Solar Thermal**             | 0.5   | 0.7   | 1.5   | 2.1   | 2.2   | 2.4   |
| **Geothermal**                | 0.4   | 0.4   | 0.4   | 0.5   | 0.6   | 0.6   |
| **Liquid Biofuels**           | 0.7   | 3.3   | 12.4  | 13.3  | 14.4  | 16.0  |
| **Biogases**                  | 0.3   | 0.5   | 1.4   | 2.3   | 2.6   | 2.5   |
| **Waste, Non-Renewable**      | 1.0   | 1.3   | 2.6   | 3.6   | 3.9   | 4.4   |
| **Electricity**               | 189.0 | 209.3 | 215.7 | 210.9 | 215.7 | 216.0 |
| **Heat**                      | 42.9  | 51.2  | 51.6  | 45.1  | 47.1  | 46.2  |

#### by Sector

| Industry                     | 271.7 | 275.2 | 244.1 | 233.1 | 239.2 | 242.2 |
| Transport                    | 262.9 | 281.6 | 280.1 | 272.7 | 285.0 | 286.8 |
| Residential                  | 248.2 | 266.6 | 278.5 | 243.9 | 250.7 | 245.2 |
| Services                     | 104.9 | 127.5 | 139.8 | 130.0 | 135.6 | 133.6 |
| Agriculture and Fishing      | 28.4  | 28.5  | 26.9  | 25.7  | 26.5  | 28.6  |
| **Others**                   | 10.4  | 7.2   | 3.7   | 3.7   | 3.4   | 3.4   |
EU ENERGY IN FIGURES 2020

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<th>Year</th>
<th>Installed Electricity Capacity (GW)</th>
<th>Combustible Fuels</th>
<th>Nuclear</th>
<th>Hydro</th>
<th>Wind</th>
<th>Solar</th>
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Gross Electricity Generation, by Fuel (TWh)

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Oils and Petroleum Products

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<th>Hydro</th>
<th>Wind</th>
<th>Solar</th>
<th>Geothermal</th>
<th>Tide, Wave and Ocean</th>
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Gases Emissions (Mio ton CO₂)

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<th>Nuclear</th>
<th>Hydro</th>
<th>Wind</th>
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<th>Tide, Wave and Ocean</th>
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Main Emissions Indicators

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* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
### 5.2 European Union - 28 (until 2020)

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**by Fuel/Product**

| Solid Fossil Fuels | 37.2 | 31.0 | 29.6 | 25.7 | 25.6 | 24.2 |
| Oil and Petroleum Products | 450.2 | 458.6 | 414.8 | 386.7 | 395.0 | 393.1 |
| Natural Gas        | 256.5 | 272.6 | 264.2 | 229.3 | 238.6 | 240.0 |
| Renewables and Biofuels | 49.3 | 61.3 | 88.7 | 94.5 | 102.6 | 104.6 |

**Solid Biofuels and Renewable Waste**

| Solid Biofuels and Renewable Waste | 47.2 | 55.5 | 69.3 | 68.4 | 70.2 | 69.4 |

**Solar Thermal**

| Solar Thermal | 0.5 | 0.8 | 1.5 | 2.1 | 2.3 | 2.4 |
| Geothermal    | 0.4 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 |
| Liquid Biofuels | 0.7 | 3.3 | 13.6 | 14.2 | 15.3 | 17.3 |
| Biogases      | 0.4 | 0.6 | 1.4 | 2.4 | 2.7 | 2.7 |
| Waste, Non-Renewable | 1.0 | 1.4 | 2.7 | 3.7 | 4.0 | 4.5 |

**Electricity**

| Electricity | 217.3 | 239.3 | 244.0 | 237.0 | 241.5 | 241.7 |
| Heat         | 45.3  | 52.5  | 52.9  | 46.3  | 48.3  | 47.5  |

**by Sector**

| Industry | 305.6 | 305.7 | 269.7 | 256.1 | 260.8 | 263.6 |
| Transport | 305.1 | 324.9 | 320.5 | 313.6 | 326.9 | 328.6 |
| Residential | 291.3 | 310.9 | 324.0 | 281.1 | 287.5 | 283.2 |
| Services   | 121.7 | 144.2 | 156.4 | 146.9 | 153.4 | 151.6 |
| Agriculture and Fishing | 29.6 | 29.5 | 27.9 | 26.6 | 28.0 | 30.1 |
| Others     | 12.8  | 9.2   | 4.7   | 4.7   | 4.6   | 4.6   |
### Installed Electricity Capacity (GW)

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<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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### Combustible Fuels

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### Nuclear

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<th>2017</th>
<th>2018</th>
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### Hydro

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<th>2018</th>
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### Solar

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### Tide, Wave and Ocean

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### Gross Electricity Generation, by Fuel (TWh)

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### Transport Fuels (ktoe)

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<th>2018</th>
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### Main Energy Indicators

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### Main Emissions Indicators

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### Renewable in Gross Final Energy (%)

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<td>86.2</td>
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### Total GHG per Capita (t CO₂ eq/cap)

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<th>2015</th>
<th>2017</th>
<th>2018</th>
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<td>86.2</td>
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<td>78.4</td>
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* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
5.3 Belgium

<table>
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<tr>
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<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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| by Fuel/Product               |      |      |      |      |      |      |
| Solid Fossil Fuels            | 0.9  | 0.6  | 0.5  | 0.5  | 0.5  | 0.5  |
| Oil and Petroleum Products    | 15.1 | 15.3 | 14.8 | 14.1 | 13.3 | 13.3 |
| Natural Gas                   | 9.3  | 9.4  | 10.0 | 8.9  | 9.4  | 9.5  |
| Renewable and Biofuels        | 0.4  | 0.6  | 1.5  | 1.7  | 1.9  | 2.0  |
| Solid Biofuels and Renewable Waste| 0.4 | 0.6  | 1.1  | 1.2  | 1.3  | 1.3  |
| Solar Thermal                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Geothermal                    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Liquid Biofuels               | 0.0  | 0.0  | 0.4  | 0.3  | 0.5  | 0.5  |
| Biogases                      | 0.0  | 0.0  | 0.0  | 0.1  | 0.1  | 0.1  |
| Waste, Non-Renewable          | 0.1  | 0.1  | 0.1  | 0.2  | 0.1  | 0.2  |
| Electricity                   | 6.7  | 6.9  | 7.2  | 7.0  | 7.1  | 7.1  |
| Heat                          | 0.5  | 0.4  | 0.6  | 0.5  | 0.4  | 0.4  |

| by Sector                     |      |      |      |      |      |      |
| Industry                      | 11.6 | 10.3 | 10.8 | 10.6 | 10.5 | 10.7 |
| Transport                     | 8.2  | 8.7  | 9.0  | 8.9  | 8.9  | 8.9  |
| Residential                   | 9.5  | 10.0 | 9.5  | 8.3  | 8.2  | 8.1  |
| Services                      | 3.5  | 4.1  | 4.9  | 4.6  | 4.6  | 4.6  |
| Agriculture and Fishing       | 0.8  | 0.8  | 0.8  | 0.7  | 0.8  | 0.8  |
| Others                        | 0.1  | 0.1  | 0.1  | 0.0  | 0.0  | 0.0  |

Methodology and Notes: See Appendices
### Installed Electricity Capacity (GW)

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<th>Year</th>
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<th>2005</th>
<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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<td>1.4</td>
<td>1.4</td>
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### Geothermal

- Tide, Wave and Ocean

### Gross Electricity Generation, by Fuel (TWh)

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<th>2015</th>
<th>2017</th>
<th>2018</th>
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<td>1.3</td>
<td>1.4</td>
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### Cogeneration Heat and Power

- CHP Electrical Capacity (GW)
- CHP Electricity Generation (TWh)
- CHP in Total Electricity Generation (%)
- CHP Heat Production (PJ)

### Transport Fuels (ktOE)

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<th>2018</th>
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<td>655</td>
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### Main Energy Indicators

- Primary Energy Consumption 2020-2030 (Mtoe)
- Final Energy Consumption 2020-2030 (Mtoe)
- Primary Energy Intensity 2020-2030 (toe/€15)
- Energy Intensity GAE/GDP2010 (toe/€15)
- Energy per Capita – GIC/pop (kgoe/cap)
- Final Electricity per Capita (KWh/cap)

### Import Dependency (%)

- of Solid Fossil Fuels
- of Hard Coal
- of Oil and Petroleum Products
- of Crude and NGL
- of Natural Gas

### Renewable in Gross Final Energy (%)

- Overall RES (with aviation cap)
- RE-T – Renewable Energy in Transport
- RES-E – Renewable Electricity Generation
- RES-H&C – Renewable Heating & Cooling

### Gases Emissions (Mio ton CO\text{eq})

- CO\text{2} Emissions – National total
- GHG Emissions – National total

### Main Emissions Indicators

- GHG National Total Emissions/index 1990 (%)
- Total GHG per Capita (t CO\text{2} eq/cap)

---

* Total emissions without LULUCF, with ind. CO\text{2}, including international aviation, excl. international maritime transport.
### 5.4 Bulgaria

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Methodology and Notes: See Appendices
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<th>Hydro</th>
<th>Wind</th>
<th>Solar</th>
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<th>Tide, Wave and Ocean</th>
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**Gross Electricity Generation, by Fuel (TWh)**

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<th>Solid Fossil Fuels, Peat &amp; Products, Oil Shale</th>
<th>Oil and Petroleum Products</th>
<th>Natural Gas</th>
<th>Nuclear</th>
<th>Renewables and Biofuels</th>
<th>Wastes non-RES</th>
<th>Cogeneration Heat and Power</th>
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<td>1.9</td>
<td>18.7</td>
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<td>2017</td>
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<td>0.0</td>
<td>1.4</td>
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<td>16.1</td>
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**Transport Fuels (ktoe)**

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<th>Year</th>
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<th>of which LPG</th>
<th>of which Motor Gasoline</th>
<th>of which Gas/Diesel Oil</th>
<th>Final Consumption Biofuels</th>
<th>Pure and Blended Biogasoline</th>
<th>Pure and Blended Biodiesel</th>
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<tr>
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<td>1722</td>
<td>223</td>
<td>697</td>
<td>781</td>
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<td>0</td>
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<td>2439</td>
<td>434</td>
<td>571</td>
<td>1419</td>
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<td>0</td>
<td>0</td>
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<td>2440</td>
<td>374</td>
<td>611</td>
<td>1441</td>
<td>13</td>
<td>146</td>
<td>104</td>
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<td>2811</td>
<td>463</td>
<td>520</td>
<td>1815</td>
<td>146</td>
<td>166</td>
<td>164</td>
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<td>2880</td>
<td>479</td>
<td>505</td>
<td>1876</td>
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<td>166</td>
<td>164</td>
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<tr>
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<td>457</td>
<td>478</td>
<td>2013</td>
<td>146</td>
<td>166</td>
<td>164</td>
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**Main Energy Indicators**

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<tr>
<th>Year</th>
<th>Primary Energy Consumption 2020-2030 (Mtoe)</th>
<th>Final Energy Consumption 2020-2030 (Mtoe)</th>
<th>Primary Energy Intensity 2020-2030 (toe/M€¹5)</th>
<th>Energy Intensity GAE/GDP2010 (toe/M€¹5)</th>
<th>Energy per Capita – GIC/pop (kgoe/cap)</th>
<th>Final Electricity per Capita (KWh/cap)</th>
<th>Import Dependency (%)</th>
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<tr>
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<td>653</td>
<td>692</td>
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<td>566</td>
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<td>3.345</td>
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<td>431</td>
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**Renewable in Gross Final Energy (%)**

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**Gases Emissions (Mio ton CO₂)**

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<th>GHG Emissions – National total*</th>
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**Main Emissions Indicators**

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<th>Total GHG per Capita (t CO₂ eq/cap)</th>
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* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
### 5.5 Czechia

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Methodology and Notes: See Appendices
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* Total emissions without LULUCF, with ind. CO\(_2\), including international aviation, excl. international maritime transport.
### 5.6 Denmark

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**by Sector**

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Methodology and Notes: See Appendices
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### Combustible Fuels

- **2000**: 9.9 TWh
- **2005**: 9.9 TWh
- **2010**: 9.6 TWh
- **2015**: 8.1 TWh
- **2017**: 7.9 TWh
- **2018**: 7.9 TWh

### Nuclear

- **2000**: 0.0 TWh
- **2005**: 0.0 TWh
- **2010**: 0.0 TWh
- **2015**: 0.0 TWh
- **2017**: 0.0 TWh
- **2018**: 0.0 TWh

### Wind

- **2000**: 2.4 TWh
- **2005**: 3.1 TWh
- **2010**: 3.8 TWh
- **2015**: 5.1 TWh
- **2017**: 5.5 TWh
- **2018**: 6.1 TWh

### Solar

- **2000**: 0.0 TWh
- **2005**: 0.0 TWh
- **2010**: 0.0 TWh
- **2015**: 0.8 TWh
- **2017**: 0.9 TWh
- **2018**: 1.0 TWh

### Geothermal

- **2000**: 0.0 TWh
- **2005**: 0.0 TWh
- **2010**: 0.0 TWh
- **2015**: 0.0 TWh
- **2017**: 0.0 TWh
- **2018**: 0.0 TWh

### Tide, Wave and Ocean

### Gross Electricity Generation, by Fuel (TWh)

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<th>Year</th>
<th>Solid Fossil Fuels, Peat &amp; Products, Oil Shale</th>
<th>Oil and Petroleum Products</th>
<th>Natural Gas</th>
<th>Nuclear</th>
<th>Renewables and Biofuels</th>
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### Cogeneration Heat and Power

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<th>CHP Heat Production (PJ)</th>
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### Transport Fuels (ktce)

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* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
### 5.7 Germany

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#### by Fuel/Product

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#### by Sector

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Methodology and Notes: See Appendices
### Installed Electricity Capacity (GW)

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### Tide, Wave and Ocean

### Gross Electricity Generation, by Fuel (TWh)

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### Solid Fossil Fuels, Peat & Products, Oil Shale

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### Nuclear

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### Hydro

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<tr>
<td>2018</td>
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### Wind

<table>
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### Solar

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### Tide, Wave and Ocean

### Main Energy Indicators

#### Primary Energy Consumption 2020-2030 (Mtoe)

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<td>2030</td>
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#### Final Energy Consumption 2020-2030 (Mtoe)

<table>
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<th>Consumption</th>
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<tbody>
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#### Primary Energy Intensity 2020-2030 (toe/M€15)

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<td>124</td>
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<tr>
<td>2030</td>
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#### Energy Intensity GAE/GDP2010 (toe/M€15)

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#### Energy per Capita – GIC/pop (kgoe/cap)

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<td>2030</td>
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#### Final Electricity per Capita (kWh/cap)

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#### Import Dependency (%)

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#### Renewable in Gross Final Energy (%)

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#### Gases Emissions (Mio ton CO2)

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#### GHG Emissions – National total

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#### Main Emissions Indicators

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* Total emissions without LULUCF, with ind. CO2, including international aviation, excl. international maritime transport.
## 5.8 Estonia

### Mtoe, unless otherwise stated

<table>
<thead>
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<th>Year</th>
<th>Production</th>
<th>Solid Fossil Fuels</th>
<th>Oil and Petroleum Products</th>
<th>Natural Gas</th>
<th>Nuclear</th>
<th>Renewables and Biofuels</th>
<th>Wastes, Non-Renewable</th>
<th>Net Imports</th>
<th>Gross Inland Consumption</th>
<th>Solid Fossil Fuels</th>
<th>Oil and Petroleum Products</th>
<th>Natural Gas</th>
<th>Nuclear</th>
<th>Renewables and Biofuels</th>
<th>Electricity</th>
<th>Waste, Non-Renewable</th>
<th>Available for Final Consumption</th>
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<td>3.0</td>
<td>0.1</td>
<td>2.9</td>
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</table>

### by Fuel/Product

- **Solid Fossil Fuels**:
  - 0.1
- **Oil and Petroleum Products**: 0.0
- **Natural Gas**: 0.4
- **Renewables and Biofuels**: 0.4
- **Solid Biofuels and Renewable Waste**: 0.4
- **Solar Thermal**: 0.0
- **Geothermal**: 0.0
- **Liquid Biofuels**: 0.0
- **Biogases**: 0.0
- **Waste, Non-Renewable**: 0.0
- **Electricity**: 0.0

### by Sector

- **Industry**: 0.6
- **Transport**: 0.6
- **Residential**: 0.9
- **Services**: 0.3
- **Agriculture and Fishing**: 0.1
- **Others**: 0.0

Methodology and Notes: See Appendices
### Installed Electricity Capacity (GW)

<table>
<thead>
<tr>
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<th></th>
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### Tide, Wave and Ocean

### Gross Electricity Generation, by Fuel (TWh)

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### Energy Indicators

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<td>GHG Emissions – National total</td>
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* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
## 5.9 Ireland

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Methodology and Notes: See Appendices
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<th>Year</th>
<th>Installed Electricity Capacity (GW)</th>
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<th>Nuclear</th>
<th>Hydro</th>
<th>Wind</th>
<th>Solar</th>
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<th>Tide, Wave and Ocean</th>
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### Gross Electricity Generation, by Fuel (TWh)

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<th>Year</th>
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<th>Oil and Petroleum Products</th>
<th>Natural Gas</th>
<th>Nuclear</th>
<th>Renewables and Biofuels</th>
<th>Wastes non-RES</th>
<th>Cogeneration Heat and Power</th>
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### Transport Fuels (ktOE)

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### Gases Emissions (Mio ton CO₂)

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* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
## 5.10 Greece

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### by Sector

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| Transport | 6.5 | 7.4 | 7.5 | 5.8 | 5.8 | 5.9 |
| Residential | 46 | 5.6 | 47 | 45 | 44 | 39 |
| Services | 1.3 | 2.0 | 2.0 | 1.9 | 2.2 | 2.1 |
| Agriculture and Fishing | 1.1 | 1.2 | 0.8 | 0.3 | 0.3 | 0.3 |
| Others | 0.0 | 0.0 | 0.0 | 0.3 | 0.2 | 0.2 |

Methodology and Notes: See Appendices
## Main Energy Indicators

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* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
### 5.11 Spain

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<td>80.0</td>
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**by Fuel/Product**

| Solid Fossil Fuels                           | 0.8   | 0.8   | 0.5   | 0.4   | 0.5   | 0.5   |
| Oil and Petroleum Products                   | 43.7  | 50.5  | 43.9  | 36.7  | 38.8  | 39.5  |
| Natural Gas                                  | 11.8  | 17.7  | 14.3  | 13.1  | 13.5  | 14.3  |
| Renewables and Biofuels                      | 3.5   | 3.8   | 5.4   | 5.7   | 6.4   | 7.0   |
| Solid Biofuels and Renewable Waste           | 3.3   | 3.4   | 3.7   | 4.0   | 4.1   | 4.1   |
| Solar Thermal                                | 0.0   | 0.1   | 0.2   | 0.3   | 0.3   | 0.3   |
| Geothermal                                   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Liquid Biofuels                              | 0.1   | 0.3   | 1.4   | 1.0   | 1.3   | 1.7   |
| Biogases                                     | 0.0   | 0.0   | 0.1   | 0.1   | 0.1   | 0.1   |
| Waste, Non-Renewable                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Electricity                                  | 16.2  | 20.8  | 21.0  | 20.0  | 20.6  | 20.5  |
| Heat                                         | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

**by Sector**

| Industry                                     | 24.5  | 30.1  | 20.8  | 18.2  | 19.6  | 20.2  |
| Transport                                    | 30.5  | 37.0  | 34.2  | 29.4  | 31.7  | 32.5  |
| Residential                                  | 12.1  | 15.2  | 17.0  | 15.0  | 14.6  | 15.0  |
| Services                                     | 6.7   | 8.3   | 9.8   | 10.6  | 11.2  | 11.2  |
| Agriculture and Fishing                       | 2.6   | 3.1   | 2.2   | 2.5   | 2.7   | 2.8   |
| Others                                       | 0.0   | 0.2   | 1.5   | 0.5   | 0.3   | 0.3   |

Methodology and Notes: See Appendices
EU ENERGY IN FIGURES 2020

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<th>Installed Electricity Capacity (GW)</th>
<th>53.9</th>
<th>76.6</th>
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Tide, Wave and Ocean
0.0 0.0 0.0 0.0 0.0 0.0

Gross Electricity Generation, by Fuel (TWh)
224.5 289.1 301.4 280.7 275.6 274.4

Solid Fossil Fuels, Peat & Products, Oil Shale
79.1 79.1 25.3 51.4 45.1 37.3

Oil and Petroleum Products
22.6 24.4 16.6 17.2 15.8 14.5

Natural Gas
21.9 80.7 95.8 53.8 65.3 59.4

Nuclear
62.2 57.5 62.0 57.2 58.0 55.8

Renewables and Biofuels
38.0 46.9 101.0 100.3 90.7 106.4

Wastes non-RES
0.6 0.5 0.7 0.8 0.8 1.0

Cogeneration Heat and Power

CHP Electrical Capacity (GW)
3.4 3.5 4.6 4.7

CHP Electricity Generation (TWh)
22.4 22.7 28.8 29.0

CHP in Total Electricity Generation (%)
7.4 8.1 10.4 10.6

CHP Heat Production (PJ)
153.3 120.3 139.2 141.9

Transport Fuels (ktOE)

Final Consumption Petroleum Products
30 053 36 144 32 407 27 979 29 935 30 299

of which LPG
85 51 21 49 58 70

of which Motor Gasoline
9 019 7 682 5 620 4 561 4 871 5 076

of which Gas/Diesel Oil
18903 26 037 24 228 21 433 22 352 22 412

Final Consumption Biofuels
71 257 1 420 964 1 259 1 681

Pure and Blended Biogasoline
0 114 232 190 138 154

Pure and Blended Biodiesel
71 143 1 188 774 513 1 528

Main Energy Indicators

Primary Energy Consumption 2020-2030 (Mtoe)
114.5 136.0 122.9 118.0 125.2 124.6

Final Energy Consumption 2020-2030 (Mtoe)
80.0 98.1 89.4 80.6 84.9 86.9

Primary Energy Intensity 2020-2030 (toe/€15)
131 132 114 110 110 107

Energy Intensity GAE/GDP2010 (toe/€15)
149 148 128 121 120 118

Energy per Capita – GIC/pop (kgoe/cap)
4 657 5 595 5 266 4 995 5 139 5 111

Import Dependency (%)
76.8 81.5 77.3 72.8 71.7 71.3

of Solid Fossil Fuels
61.3 70.3 92.8 75.4 84.6 78.0

of Hard Coal
71.5 79.1 95.7 79.6 89.0 80.9

of Oil and Petroleum Products
101.0 101.2 99.9 102.2 97.8 99.0

of Crude and NGL
100.6 100.1 99.3 99.5 99.9 99.5

of Natural Gas
101.6 101.4 99.4 96.9 101.3 101.4

Renewable in Gross Final Energy (%)

Overall RES (with aviation cap)
8 43 13.8 16.23 17.56 17.45

RE-T – Renewable Energy in Transport
1.27 5.02 1.11 5.80 6.94

RES-E – Renewable Electricity Generation
19.13 29.78 36.95 36.40 35.16

RES-H&C – Renewable Heating & Cooling
9.39 12.56 16.89 17.62 17.48

Gases Emissions (Mio ton CO2)

CO2 Emissions – National total
320.8 381.0 296.0 285.8 291.6 287.5

GHG Emissions – National total
398.4 455.0 371.3 352.5 357.4 352.2

Main Emissions Indicators

GHG National Total Emissions/index 1990 (%)
135.4 154.7 126.2 119.8 121.5 119.7

Total GHG per Capita (t CO2 eq/cap)
9.8 10.5 8.0 7.6 7.7 7.5

* Total emissions without LULUCF, with ind. CO2, including international aviation, excl. international maritime transport.
## 5.12 France

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<td>13.4</td>
<td>12.1</td>
<td>9.2</td>
<td>10.1</td>
<td>9.1</td>
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<tr>
<td>of which Hard Coal</td>
<td>12.3</td>
<td>12.7</td>
<td>11.2</td>
<td>8.8</td>
<td>9.7</td>
<td>8.7</td>
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<tr>
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<td>90.0</td>
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<td>83.2</td>
<td>81.8</td>
<td>80.2</td>
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<tr>
<td>of which Crude Oil and NGL</td>
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<td>Natural gas</td>
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<td>34.5</td>
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<td>38.5</td>
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<td>0.4</td>
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<td><strong>Gross Inland Consumption</strong></td>
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<td>260.2</td>
<td>255.7</td>
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<tr>
<td>Solid Fossil Fuels</td>
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<td>142</td>
<td>12.0</td>
<td>93</td>
<td>99</td>
<td>90</td>
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<tr>
<td>of which Hard Coal</td>
<td>14.1</td>
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<td>11.1</td>
<td>9.1</td>
<td>9.7</td>
<td>8.6</td>
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<tr>
<td>of which Brown Coal</td>
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<td>0.0</td>
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<tr>
<td>Oil and Petroleum Products</td>
<td>87.6</td>
<td>93.7</td>
<td>82.6</td>
<td>81.2</td>
<td>79.2</td>
<td>76.9</td>
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<tr>
<td>of which Crude Oil and NGL</td>
<td>86.8</td>
<td>87.6</td>
<td>66.7</td>
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<td>59.3</td>
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<td>-2.6</td>
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<td>1.7</td>
<td>1.7</td>
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<td>16.1</td>
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<td>140.1</td>
<td>141.7</td>
<td>139.8</td>
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</table>

### by Fuel/Product

| Solid Biofuels and Renewable Waste | 8.4   | 8.5   | 9.1   | 8.2   | 8.3   | 8.2   |
| Solar Thermal                     | 0.0   | 0.0   | 0.1   | 0.2   | 0.2   | 0.2   |
| Geothermal                        | 0.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Liquid Biofuels                   | 0.3   | 0.6   | 2.4   | 3.0   | 3.3   | 3.4   |
| Biogases                          | 0.1   | 0.1   | 0.1   | 0.2   | 0.2   | 0.2   |
| Waste, Non-Renewable             | 0.2   | 0.1   | 0.1   | 0.4   | 0.4   | 0.5   |
| Electricity                       | 33.1  | 36.4  | 38.2  | 37.7  | 38.1  | 37.9  |
| Heat                              | 3.2   | 4.2   | 2.8   | 3.1   | 3.6   | 3.7   |

### by Sector

| Industry                        | 32.9  | 32.5  | 27.7  | 26.9  | 26.8  | 27.3  |
| Transport                       | 45.2  | 44.4  | 43.6  | 45.6  | 46.1  | 45.3  |
| Residential                     | 40.6  | 43.0  | 45.4  | 39.2  | 40.3  | 39.1  |
| Services                        | 18.7  | 21.0  | 24.1  | 23.1  | 23.6  | 23.3  |
| Agriculture and Fishing         | 4.3   | 4.6   | 4.4   | 4.6   | 4.4   | 4.4   |
| Others                          | 41    | 5.3   | 1.0   | 0.7   | 0.5   | 0.5   |

Methodology and Notes: See Appendices
### Installed Electricity Capacity (GW)

<table>
<thead>
<tr>
<th>Year</th>
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<th>2005</th>
<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>114.5</td>
<td>115.7</td>
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### Combustible Fuels

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<th>2018</th>
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<tbody>
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<td></td>
<td>25.9</td>
<td>26.4</td>
<td>28.4</td>
<td>25.9</td>
<td>21.9</td>
<td>19.8</td>
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### Nuclear

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### Hydro

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<th>2017</th>
<th>2018</th>
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### Solar

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<th>2018</th>
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### Geothermal

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### Tide, Wave and Ocean

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<th>2015</th>
<th>2017</th>
<th>2018</th>
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### Gross Electricity Generation, by Fuel (TWh)

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<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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<tbody>
<tr>
<td>Solid Fossil Fuels, Peat &amp; Products, Oil Shale</td>
<td>540.0</td>
<td>576.1</td>
<td>569.2</td>
<td>578.8</td>
<td>561.2</td>
<td>581.3</td>
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<tr>
<td>Oil and Petroleum Products</td>
<td>27.0</td>
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<td>23.4</td>
<td>11.9</td>
<td>12.8</td>
<td>8.4</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>15.4</td>
<td>26.3</td>
<td>26.7</td>
<td>23.8</td>
<td>42.9</td>
<td>32.8</td>
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<tr>
<td>Nuclear</td>
<td>415.2</td>
<td>451.5</td>
<td>428.5</td>
<td>437.4</td>
<td>398.4</td>
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<td>Renewables and Biofuels</td>
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<td>97.8</td>
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### Cogeneration Heat and Power

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<th>2017</th>
<th>2018</th>
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<tbody>
<tr>
<td>CHP Electrical Capacity (GW)</td>
<td>4.6</td>
<td>5.6</td>
<td>6.3</td>
<td>6.6</td>
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<tr>
<td>CHP Electricity Generation (TWh)</td>
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<td>13.9</td>
<td>16.6</td>
<td>17.3</td>
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<tr>
<td>CHP in Total Electricity Generation (%)</td>
<td>2.8</td>
<td>2.5</td>
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<td>3.0</td>
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<tr>
<td>CHP Heat Production (PJ)</td>
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<td>154.9</td>
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<td>176.4</td>
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### Transport Fuels ( ktoe)

<table>
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<th>2018</th>
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<tbody>
<tr>
<td>Final Consumption Petroleum Products</td>
<td>44093</td>
<td>42923</td>
<td>40254</td>
<td>41576</td>
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<tr>
<td>of which LPG</td>
<td>245</td>
<td>153</td>
<td>126</td>
<td>89</td>
<td>70</td>
<td>64</td>
</tr>
<tr>
<td>of which Motor Gasoline</td>
<td>14459</td>
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<td>7713</td>
<td>7048</td>
<td>7441</td>
<td>7672</td>
</tr>
<tr>
<td>of which Gas/Diesel Oil</td>
<td>28237</td>
<td>30600</td>
<td>31532</td>
<td>32917</td>
<td>32601</td>
<td>31409</td>
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<tr>
<td>Final Consumption Biofuels</td>
<td>326</td>
<td>585</td>
<td>2420</td>
<td>2996</td>
<td>3335</td>
<td>3393</td>
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<tr>
<td>Pure and Blended Biogasoline</td>
<td>59</td>
<td>101</td>
<td>399</td>
<td>432</td>
<td>537</td>
<td>586</td>
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<tr>
<td>Pure and Blended Biodiesel</td>
<td>268</td>
<td>484</td>
<td>2021</td>
<td>2564</td>
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### Main Energy Indicators

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<th>2018</th>
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<tbody>
<tr>
<td>Primary Energy Consumption 2020-2030 (Mtoe)</td>
<td>239.8</td>
<td>260.9</td>
<td>254.4</td>
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<tr>
<td>Energy Intensity GAE/GDP2010 (toe/M€−15)</td>
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<td>130</td>
<td>122</td>
<td>111</td>
<td>105</td>
<td>103</td>
</tr>
<tr>
<td>Energy per Capita – GIC/pop (kgoe/cap)</td>
<td>9.4</td>
<td>9.1</td>
<td>8.2</td>
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### Renewable in Gross Final Energy (%)

<table>
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<th>2015</th>
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<th>2018</th>
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</table>

### Gases Emissions (Mio ton CO₂)

<table>
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<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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</thead>
<tbody>
<tr>
<td>GHG National Total Emissions/index 1990 (%)</td>
<td>101.8</td>
<td>102.5</td>
<td>94.8</td>
<td>85.3</td>
<td>86.4</td>
<td>83.1</td>
</tr>
<tr>
<td>Total GHG per Capita (t CO₂ eq/cap)</td>
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<td>9.1</td>
<td>8.2</td>
<td>7.1</td>
<td>7.2</td>
<td>6.9</td>
</tr>
</tbody>
</table>

* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
## 5.13 Croatia

<table>
<thead>
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<th>Mtoe, unless otherwise stated</th>
<th>2000</th>
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<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
</tr>
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<tbody>
<tr>
<td><strong>Production</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Solid Fossil Fuels</td>
<td>4.3</td>
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<td>5.2</td>
<td>4.4</td>
<td>4.2</td>
<td>4.2</td>
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<tr>
<td>of which Hard Coal</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>of which Brown Coal</td>
<td>0.0</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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<tr>
<td>Oil and Petroleum Products</td>
<td>1.3</td>
<td>1.0</td>
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<td>0.7</td>
<td>0.8</td>
<td>0.8</td>
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<td>of which Crude Oil</td>
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<td>0.0</td>
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<td>Wastes, Non-Renewable</td>
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<td>2.8</td>
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<td>3.7</td>
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### by Fuel/Product

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<td>2.6</td>
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### by Sector

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<td>2.8</td>
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Methodology and Notes: See Appendices
### Installed Electricity Capacity (GW)

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<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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<tr>
<td>Total emissions without LULUCF, with ind. CO$_2$, including international aviation, excl. international maritime transport.</td>
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<td>4.8</td>
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### Combustible Fuels

- Hydro: 2.1, 2.1, 2.1, 2.2, 2.2, 2.2
- Wind: 0.0, 0.0, 0.1, 0.4, 0.6, 0.6
- Solar: 0.0, 0.0, 0.0, 0.0, 0.1, 0.1
- Geothermal: 0.0, 0.0, 0.0, 0.0, 0.0, 0.0

### Gross Electricity Generation, by Fuel (TWh)

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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid Fossil Fuels, Peat &amp; Products, Oil Shale</td>
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<td>2.3</td>
<td>2.4</td>
<td>2.3</td>
<td>1.4</td>
<td>1.5</td>
</tr>
<tr>
<td>Oil and Petroleum Products</td>
<td>1.7</td>
<td>1.9</td>
<td>0.6</td>
<td>0.2</td>
<td>0.2</td>
<td>0.1</td>
</tr>
<tr>
<td>Natural Gas</td>
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<td>2.6</td>
<td>1.2</td>
<td>3.1</td>
<td>2.2</td>
</tr>
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<td>Nuclear</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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<tr>
<td>Renewables and Biofuels</td>
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<td>9.4</td>
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<td>7.3</td>
<td>9.9</td>
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### Cogeneration Heat and Power

- Chp Electrical Capacity (GW): 0.7, 0.6, 0.8, 0.9
- Chp Electricity Generation (TWh): 2.0, 0.8, 2.0
- Chp in Total Electricity Generation (%): 15.8, 7.1, 16.7, 14.6
- Chp Heat Production (PJ): 14.9, 10.0, 18.8, 15.8

### Transport Fuels (ktce)

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<tr>
<th>Year</th>
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<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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<td>1815</td>
<td>1943</td>
<td>1942</td>
<td>2161</td>
<td>2085</td>
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<tr>
<td>of which LPG</td>
<td>11</td>
<td>25</td>
<td>66</td>
<td>75</td>
<td>79</td>
<td>79</td>
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<tr>
<td>of which Motor Gasoline</td>
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<td>739</td>
<td>678</td>
<td>554</td>
<td>535</td>
<td>520</td>
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<tr>
<td>of which Gas/Diesel Oil</td>
<td>623</td>
<td>1038</td>
<td>1186</td>
<td>1303</td>
<td>1537</td>
<td>1476</td>
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<tr>
<td>Final Consumption Biofuels</td>
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<td>0</td>
<td>3</td>
<td>24</td>
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<td>0</td>
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<tr>
<td>Pure and Blended Biogasoline</td>
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<td>0</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>Pure and Blended Biodiesel</td>
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<td>3</td>
<td>24</td>
<td>0</td>
<td>0</td>
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</table>

### Main Energy Indicators

- Primary Energy Consumption 2020-2030 (Mtoe): 7.8, 9.1, 8.9, 8.0, 8.3, 8.2
- Final Energy Consumption 2020-2030 (Mtoe): 6.0, 7.2, 7.2, 6.6, 6.9, 6.9
- Primary Energy Intensity 2020-2030 (toe/M€\textsuperscript{15}): 222, 209, 197, 178, 175, 167
- Energy Intensity GAE/GDP\textsuperscript{2010} (toe/M€\textsuperscript{15}): 241, 225, 211, 191, 187, 178
- Final Electricity per Capita (kWh/cap): 2631, 3344, 3686, 3631, 3846, 3940
- Import Dependency (%): 48.5, 52.6, 46.7, 48.8, 53.1, 52.7
- of Solid Fossil Fuels | 110.9 | 91.3 | 102.5 | 103.0 | 100.7 | 91.3 |
- of Coal | 112.8 | 90.6 | 102.7 | 102.4 | 100.9 | 90.6 |
- of Oil and Petroleum Products | 61.0 | 79.4 | 80.6 | 81.4 | 77.1 | 82.1 |
- of Crude and NGL | 72.1 | 78.9 | 82.3 | 79.6 | 79.3 | 81.2 |
- of Natural Gas | 41.0 | 23.7 | 18.1 | 27.1 | 53.8 | 53.3 |

### Renewable in Gross Final Energy (%)

- Overall RES (with aviation cap): 23.69, 25.10, 28.97, 27.28, 28.02
- RE-T – Renewable Energy in Transport: 1.02, 1.13, 3.63, 1.18, 3.89
- RES-E – Renewable Electricity Generation: 35.18, 37.52, 45.41, 46.44, 48.14
- RES-H&C – Renewable Heating & Cooling: 30.03, 32.80, 38.54, 36.55, 36.51

### Gases Emissions (Mio ton CO$_2$)

- CO$_2$ Emissions – National total*: 19.9, 23.6, 21.3, 18.2, 19.2, 18.3

### Main Emissions Indicators

- GHG National Total Emissions/index 1990 (%): 80.0, 95.2, 87.5, 75.6, 78.7, 75.2
- Total GHG per Capita (t CO$_2$ eq/cap): 5.8, 7.0, 6.6, 5.8, 6.1, 5.9

* Total emissions without LULUCF, with ind. CO$_2$, including international aviation, excl. international maritime transport.
5.14 Italy

<table>
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<th>Mtoe, unless otherwise stated</th>
<th>2000</th>
<th>2005</th>
<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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<td>0.1</td>
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<tr>
<td>of which Brown Coal</td>
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Methodology and Notes: See Appendices
## Installed Electricity Capacity (GW)

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## Combustible Fuels

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## Nuclear

- Hydro: 20.3, 21.0, 21.5, 22.2, 22.4, 22.5
- Wind: 0.4, 1.6, 5.8, 9.1, 9.7, 10.2
- Solar: 0.0, 0.0, 3.6, 18.9, 19.7, 20.1
- Geothermal: 0.6, 0.7, 0.7, 0.8, 0.8, 0.8

## Tide, Wave and Ocean

- Gross Electricity Generation, by Fuel (TWh): 275.9, 302.6, 301.3, 282.4, 295.2, 289.1

## Transport Fuels (ktoe)

- Final Consumption Petroleum Products: 38.633, 40.430, 35.534, 33.187, 31.421, 32.244
  - of which LPG: 1.562, 1.131, 1.334, 1.817, 1.832, 1.773
  - of which Motor Gasoline: 17.556, 14.175, 10.276, 8.192, 7.433, 7.640
- Final Consumption Biofuels: 0, 0.5, 1.5, 2.1, 2.4, 2.5
  - Pure and Blended Biogasoline: 0, 0, 122, 25, 33
  - Pure and Blended Biodiesel: 0, 177, 1.297, 1.142, 1.029, 1.217

## Main Energy Indicators

- Primary Energy Consumption 2020-2030 (Mtoe): 166.1
- Final Energy Consumption 2020-2030 (Mtoe): 124.8
- Primary Energy Intensity 2020-2030 (toe/M\(\varepsilon\)):
  - 100
  - 104
  - 98
  - 90
  - 87
  - 86
- Energy Intensity GAE/GDP2010 (toe/M\(\varepsilon\)):
  - 106
  - 110
  - 105
  - 95
  - 95
  - 93
- Energy per Capita – GIC/pop (kgoe/cap):
  - 4.795
  - 5.199
  - 5.057
  - 4.729
  - 4.819
  - 4.846
- Import Dependency (%):
  - 86.5
  - 85.3
  - 82.6
  - 77.0
  - 77.0
  - 76.3

## Renewable in Gross Final Energy (%)

- Overall RES (with aviation cap): 7.55
- RE-T – Renewable Energy in Transport: 1.05
- RES-E – Renewable Electricity Generation: 16.29
- RES-H&C – Renewable Heating & Cooling: 8.22

## Gases Emissions (Mio ton CO\(_2\))

- CO\(_2\) Emissions – National total*: 476.4
  - 508.5
  - 442.5
  - 369.7
  - 362.6
  - 359.7
- GHG Emissions – National total*: 560.5
  - 595.1
  - 522.6
  - 449.1
  - 442.6
  - 459.3

## Main Emissions Indicators

- GHG National Total Emissions/index 1990 (%):
  - 107.7
  - 114.4
  - 100.4
  - 86.3
  - 85.0
  - 84.4
- Total GHG per Capita (t CO\(_2\) eq/cap):
  - 9.8
  - 10.3
  - 8.8
  - 7.4
  - 7.3
  - 7.3

* Total emissions without LULUCF, with ind. CO\(_2\), including international aviation, excl. international maritime transport.
### 5.15 Cyprus

Methodology and Notes: See Appendices

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<th>Mtoe, unless otherwise stated</th>
<th>2000</th>
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<th>2015</th>
<th>2017</th>
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by Fuel/Product

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by Sector

| Industry           | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| Transport          | 0.6 | 0.7 | 0.8 | 0.6 | 0.7 | 0.7 |
| Residential        | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Services           | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 |
| Agriculture and Fishing | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Others             | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
### Installed Electricity Capacity (GW)

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<th>2015</th>
<th>2017</th>
<th>2018</th>
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### Gross Electricity Generation, by Fuel (TWh)

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### Main Energy Indicators

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### Renewable in Gross Final Energy (%)

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<th>6.17</th>
<th>9.93</th>
<th>10.49</th>
<th>13.88</th>
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### Gases Emissions (Mio ton CO₂)

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* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
### 5.16 Latvia

**Methodology and Notes:** See Appendices

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**by Fuel/Product**

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**by Sector**

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### Main Energy Indicators

**Primary Energy Consumption 2020-2030 (Mtoe)**
- 2000: 3.8
- 2005: 4.5
- 2010: 4.6
- 2015: 4.3
- 2017: 4.5
- 2018: 4.7

**Final Energy Consumption 2020-2030 (Mtoe)**
- 2000: 3.3
- 2005: 4.0
- 2010: 4.1
- 2015: 3.8
- 2017: 4.0
- 2018: 4.2

**Primary Energy Intensity 2020-2030 (toe/ME€⁻¹)**
- 2000: 267
- 2005: 214
- 2010: 222
- 2015: 175
- 2017: 173
- 2018: 174

**Energy Intensity GAE/GDP 2010 (toe/ME€⁻¹)**
- 2000: 211
- 2005: 174
- 2010: 190
- 2015: 186
- 2017: 180
- 2018: 80

**Energy per Capita – GIC/pop (kgoe/cap)**
- 2000: 1,623
- 2005: 2,040
- 2010: 2,183
- 2015: 2,205
- 2017: 2,334
- 2018: 2,478

**Final Electricity per Capita (KWh/cap)**
- 2000: 1,880
- 2005: 2,547
- 2010: 2,931
- 2015: 3,253
- 2017: 3,325
- 2018: 3,444

**Import Dependency (%)**
- 2000: 81.9
- 2005: 97.7
- 2010: 106.5
- 2015: 85.2
- 2017: 85.2
- 2018: 85.2

**Renewable in Gross Final Energy (%)**

#### Gases Emissions (Mio ton CO₂)

**CO₂ Emissions – National total**
- 2000: 7.2
- 2005: 8.0
- 2010: 8.9
- 2015: 7.6
- 2017: 7.7
- 2018: 8.3

**GHG Emissions – National total**
- 2000: 10.6
- 2005: 11.6
- 2010: 12.6
- 2015: 11.5
- 2017: 11.7
- 2018: 12.2

### Main Emissions Indicators

**GHG National Total Emissions/index 1990 (%)**
- 2000: 44.0
- 2005: 43.7
- 2010: 47.6
- 2015: 43.4
- 2017: 43.9
- 2018: 45.9

**Total GHG per Capita (t CO₂ eq/cap)**
- 2000: 4.5
- 2005: 5.2
- 2010: 6.0
- 2015: 5.8
- 2017: 6.0
- 2018: 6.3

*Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
## 5.17 Lithuania

### Mtoe, unless otherwise stated

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### by Fuel/Product

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### by Sector

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### Main Energy Indicators

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<td>275</td>
<td>199</td>
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<td>154</td>
<td>153</td>
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<td>Energy per Capita – GIC/pop (kgoe/cap)</td>
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### Renewable in Gross Final Energy (%)

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### Gases Emissions (Mio ton CO₂)

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* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
### 5.18 Luxembourg

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Methodology and Notes: See Appendices
## Installed Electricity Capacity (GW)

<table>
<thead>
<tr>
<th>Year</th>
<th>2000</th>
<th>2005</th>
<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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<tr>
<td></td>
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## Combustible Fuels

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## Nuclear

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<th>2018</th>
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## Wind

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## Solar

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<th>2017</th>
<th>2018</th>
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## Geothermal

## Tide, Wave and Ocean

## Gross Electricity Generation, by Fuel (TWh)

<table>
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<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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<tbody>
<tr>
<td>Solid Fossil Fuels, Peat &amp; Products, Oil Shale</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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<tr>
<td>Oil and Petroleum Products</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>0.2</td>
<td>3.1</td>
<td>2.9</td>
<td>0.8</td>
<td>0.2</td>
<td>0.2</td>
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<tr>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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<td>1.9</td>
<td>1.9</td>
<td>1.9</td>
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<tr>
<td>Wastes non-RES</td>
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<td>0.0</td>
<td>0.0</td>
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## Cogeneration Heat and Power

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<td>0.1</td>
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## Transport Fuels (ktOE)

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<td>1588</td>
<td>2341</td>
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<td>1863</td>
<td>1842</td>
<td>1967</td>
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<td>of which LPG</td>
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<td>1</td>
<td>1</td>
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<td>of which Motor Gasoline</td>
<td>595</td>
<td>514</td>
<td>362</td>
<td>293</td>
<td>301</td>
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<td>of which Gas/Diesel Oil</td>
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<td>1824</td>
<td>1760</td>
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<td>113</td>
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## Main Energy Indicators

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<td>Energy Intensity GAE/GDP2010 (toe/€15)</td>
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<td>10411</td>
<td>9254</td>
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<tr>
<td>Final Electricity per Capita (KWh/cap)</td>
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<td>13132</td>
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## Import Dependency (%)

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<td>100.0</td>
<td>100.0</td>
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<tr>
<td>of Hard Coal</td>
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<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
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<tr>
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## Renewable in Gross Final Energy (%)

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## Gases Emissions (Mio ton CO2)

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## Main Emissions Indicators

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* Total emissions without LULUCF, with ind. CO2, including international aviation, excl. international maritime transport.
## 5.19 Hungary

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### by Fuel/Product

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### by Sector

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Methodology and Notes: See Appendices
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**Tide, Wave and Ocean**

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<th>35.8</th>
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**Cogeneration Heat and Power**

| **CHP Electrical Capacity (GW)** | 1.9  | 1.6  | 1.5  | 1.5  | 1.5  | 1.5  |
| **CHP Electricity Generation (TWh)** | 7.3  | 4.1  | 4.6  | 4.3  | 4.3  | 4.3  |
| **CHP in Total Electricity Generation (%)** | 19.6 | 13.5 | 14.1 | 13.4 | 13.4 | 13.4 |
| **CHP Heat Production (PJ)**             | 42.2 | 24.4 | 25.2 | 24.7 | 24.7 | 24.7 |

**Transport Fuels (ktoe)**

| **Final Consumption Petroleum Products** | 2971 | 3932 | 3791 | 3873 | 4199 | 4435 |
| of which LPG                             | 0    | 33   | 29   | 30   | 26   | 23   |
| of which Motor Gasoline                  | 1414 | 1568 | 1348 | 1283 | 1368 | 1418 |
| of which Gas/Diesel Oil                  | 1557 | 2328 | 2414 | 2559 | 2804 | 2994 |
| **Final Consumption Biofuels**           | 0    | 3    | 175  | 175  | 165  | 193  |
| Pure and Blended Biogasoline             | 0    | 3    | 57   | 43   | 46   | 50   |
| Pure and Blended Biodiesel               | 0    | 0    | 118  | 133  | 118  | 143  |

**Main Energy Indicators**

| **Primary Energy Consumption 2020-2030 (Mtoe)** | 23.6 | 26.3 | 24.6 | 23.3 | 24.5 | 24.5 |
| **Final Energy Consumption 2020-2030 (Mtoe)** | 16.2 | 18.7 | 17.5 | 17.4 | 18.5 | 18.5 |
| **Primary Energy Intensity 2020-2030 (toe/M€-15)** | 286 | 257 | 243 | 208 | 205 | 195 |
| **Energy Intensity GAE/GDP2010 (toe/M€-15)** | 305 | 278 | 262 | 225 | 223 | 212 |
| **Energy per Capita – GIC/cap (toe/M€-15)** | 2468 | 2823 | 2655 | 2557 | 2725 | 2732 |
| **Final Electricity per Capita (KWH/cap)** | 2880 | 3203 | 3416 | 3682 | 3929 | 4032 |
| **Import Dependency (%)**                  | 55.0 | 62.3 | 56.5 | 53.9 | 62.5 | 58.1 |
| of Solid Fossil Fuels                      | 28.1 | 42.5 | 41.9 | 33.7 | 44.1 | 48.1 |
| of Hard Coal                               | 96.4 | 108.3 | 99.2 | 99.2 | 101.7 | 102.7 |
| of Oil and Petroleum Products              | 75.9 | 82.0 | 85.3 | 93.7 | 86.6 | 85.9 |
| of Crude and NGL                           | 78.5 | 81.8 | 85.3 | 91.4 | 86.0 | 86.3 |
| of Natural Gas                             | 75.4 | 81.1 | 78.7 | 69.7 | 96.2 | 77.9 |

**Renewable in Gross Final Energy (%)**

| **Overall RES (with aviation cap)** | 6.93 | 12.74 | 14.50 | 13.52 | 12.49 |
| **RE-T – Renewable Energy in Transport** | 0.91 | 6.07 | 7.08 | 7.62 | 7.68 |
| **RES-E – Renewable Electricity Generation** | 4.42 | 7.10 | 7.34 | 7.52 | 8.29 |

**Gases Emissions (Mio ton CO2)**

| **CO2 Emissions – National total** | 59.3 | 61.4 | 52.8 | 47.2 | 50.4 | 50.5 |
| **GHG Emissions – National total** | 74.0 | 76.2 | 65.6 | 61.4 | 64.5 | 64.1 |

**Main Emissions Indicators**

| **GHG National Total Emissions/index 1990 (%)** | 78.3 | 80.7 | 69.4 | 65.0 | 68.2 | 67.8 |
| **Total GHG per Capita (t CO2 eq/cap)** | 7.2  | 7.5  | 6.5  | 6.2  | 6.6  | 6.6  |
### 5.20 Malta

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Methodology and Notes: See Appendices
## Installed Electricity Capacity (GW)

<table>
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<th>2005</th>
<th>2010</th>
<th>2015</th>
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## Gross Electricity Generation, by Fuel (TWh)

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<td>0.0</td>
<td>0.0</td>
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## Cogeneration Heat and Power

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## Transport Fuels (ktce)

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## Main Energy Indicators

### Primary Energy Consumption 2020-2030 (Mtoe)

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### Renewable in Gross Final Energy (%)

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<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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### Gases Emissions (Mio ton CO\(_2\))

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<th>2017</th>
<th>2018</th>
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### Main Emissions Indicators

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* Total emissions without LULUCF, with ind. CO\(_2\), including international aviation, excl. international maritime transport.
## 5.21 Netherlands

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### by Fuel/Product

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### by Sector

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Methodology and Notes: See Appendices
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<td><strong>Total emissions without LULUCF, with ind. CO\textsubscript{2}, including international aviation, excl. international maritime transport.</strong></td>
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**Cogeneration Heat and Power**

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**Transport Fuels ( ktoe**)

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**Main Energy Indicators**

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**Gases Emissions (Mio ton CO\textsubscript{2})**

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**Main Emissions Indicators**

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* Total emissions without LULUCF, with ind. CO\textsubscript{2}, including international aviation, excl. international maritime transport.
### 5.22 Austria

#### Mtoe, unless otherwise stated

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Methodology and Notes: See Appendices
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### Tide, Wave and Ocean

### Gross Electricity Generation, by Fuel (TWh)

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### Cogeneration Heat and Power

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<th>CHP Heat Production (PJ)</th>
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### Transport Fuels (kt)

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<th>of which Motor Gasoline</th>
<th>of which Gas/Diesel Oil</th>
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### Final Consumption Biofuels

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<th>of Oil and Petroleum Products</th>
<th>of Crude and NGL</th>
<th>of Natural Gas</th>
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### Gases Emissions (Mio ton CO2)

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### Main Emissions Indicators

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* Total emissions without LULUCF, with ind. CO2, including international aviation, excl. international maritime transport.
## 5.23 Poland

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### by Fuel/Product

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### by Sector

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**Gross Electricity Generation, by Fuel (TWh)**

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**GHG Emissions – National total**

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* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
## 5.24 Portugal

### Mtoe, unless otherwise stated

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### by Fuel/Product

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### by Sector

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Methodology and Notes: See Appendices
## EU Energy in Figures 2020

### Installed Electricity Capacity (GW)

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<th>2010</th>
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### Combustible Fuels

- Hydro: 4.5, 5.0, 5.1, 6.2, 7.2, 7.2
- Wind: 0.1, 1.1, 3.8, 4.9, 5.1, 5.2
- Solar: 0.0, 0.0, 0.1, 0.4, 0.6, 0.7
- Geothermal: 0.0, 0.0, 0.0, 0.0, 0.0, 0.0
- Tide, Wave and Ocean: 0.0, 0.0, 0.0, 0.0, 0.0, 0.0

### Gross Electricity Generation, by Fuel (TWh)

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### Solid Fossil Fuels, Peat & Products, Oil Shale

- 14.6, 15.2, 7.1, 14.7, 14.7, 12.0

### Oil and Petroleum Products

- 8.4, 8.8, 3.0, 1.3, 1.3, 1.1

### Natural Gas

- 7.2, 13.6, 149, 10.6, 18.9, 15.6

### Nuclear

- 0.0, 0.0, 0.0, 0.0, 0.0, 0.0

### Renewables and Biofuels

- 13.3, 8.6, 28.8, 25.5, 24.3, 30.6

### Wastes non-RES

- 0.3, 0.3, 0.3, 0.3, 0.3, 0.3

### Cogeneration Heat and Power

- Chp Electrical Capacity (GW): 1.3, 1.3, 1.2, 1.2
- Chp Electricity Generation (TWh): 6.4, 6.5, 6.4, 6.1
- Chp in Total Electricity Generation (%): 11.8, 12.3, 10.8, 10.3
- Chp Heat Production (PJ): 67.2, 59.3, 60.0, 59.6

### Transport Fuels (ktoe)

- Final Consumption Petroleum Products: 5 932, 6 382, 6 062, 5 199, 5 501, 5 539
  - of which LPG: 23, 25, 32, 40, 41, 40
  - of which Motor Gasoline: 2 272, 1 935, 1 450, 1 099, 1 080, 1 068
  - of which Gas/Diesel Oil: 3 523, 4 286, 4 366, 3 886, 4 152, 4 190
- Final Consumption Biofuels: 0, 0, 309, 327, 243, 262
  - Pure and Blended Biogasoline: 0, 0, 0, 21, 3, 6
  - Pure and Blended Biodiesel: 0, 0, 305, 302, 240, 257

### Main Energy Indicators

- Primary Energy Consumption 2020-2030 (Mtoe): 23.0, 24.9, 22.6, 21.6, 22.8, 22.7
- Final Energy Consumption 2020-2030 (Mtoe): 18.0, 19.0, 18.1, 16.0, 16.6, 16.9
- Primary Energy Intensity 2020-2030 (toe/M€15): 132, 137, 121, 120, 120, 116
- Energy Intensity GAE/GDP2010 (toe/M€15): 149, 154, 132, 135, 134, 128
- Energy per Capita – GIC/pop (kgoe/cap): 3 744, 4 414, 4 718, 4 416, 4 524, 4 660
- Import Dependency (%): 85.3, 88.6, 75.2, 75.3, 71.9, 75.6
  - of Solid Fossil Fuels: 102.9, 96.3, 98.3, 98.5, 105.6, 98.9
  - of Hard Coal: 103.4, 96.3, 98.3, 98.5, 105.6, 98.9
  - of Oil and Petroleum Products: 99.4, 102.3, 97.5, 101.7, 100.2, 104.2
  - of Crude and NGL: 99.0, 100.2, 98.8, 100.9, 100.4, 100.9
  - of Natural Gas: 100.3, 103.8, 100.4, 100.4, 100.4, 101.1
- Renewable in Gross Final Energy (%)
  - Overall RES (with aviation cap): 19.53, 24.17, 30.51, 30.61, 30.32
  - RE-T – Renewable Energy in Transport: 0.45, 5.55, 7.43, 7.91, 9.04
  - RES-E – Renewable Electricity Generation: 27.70, 40.61, 52.62, 54.17, 52.19
  - RES-H&C – Renewable Heating & Cooling: 32.09, 33.87, 40.10, 41.02, 41.21
- Gases Emissions (Mio ton CO₂)
  - CO₂ Emissions – National total*: 67.7, 72.0, 55.8, 55.6, 58.7, 55.7
  - GHG Emissions – National total*: 83.7, 88.0, 71.6, 71.0, 74.5, 71.6

### Main Emissions Indicators

- GHG National Total Emissions/index 1990 (%): 139.1, 146.2, 119.0, 118.0, 123.8, 118.9
- Total GHG per Capita (t CO₂ eq/cap): 8.2, 8.4, 6.8, 6.8, 7.2, 7.0

* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
### 5.25 Romania

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#### by Fuel/Product

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#### by Sector

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Methodology and Notes: See Appendices
### Installed Electricity Capacity (GW)

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<th>2010</th>
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### Combustible Fuels

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<th>2018</th>
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### Tide, Wave and Ocean

- **Installed Electricity Capacity (GW)**: 16.8–23.6
- **Combustible Fuels**: 10.0–11.0
- **Nuclear**: 0.7–1.4
- **Hydro**: 61.1–67.7
- **Wind**: 0.0–3.0
- **Solar**: 0.0–1.4
- **Geothermal**: 0.0–0.0

### Gross Electricity Generation, by Fuel (TWh)

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<th>2015</th>
<th>2017</th>
<th>2018</th>
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### Cogeneration Heat and Power

- **CHP Electrical Capacity (GW)**: 4.6–1.6
- **CHP Electricity Generation (TWh)**: 6.5–5.4
- **CHP in Total Electricity Generation (%)**: 10.8–8.3
- **CHP Heat Production (PJ)**: 69.0–42.2

### Transport Fuels (ktoe)

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### Main Energy Indicators

- **Primary Energy Consumption 2020-2030 (Mtoe)**: 34.9–32.6
- **Final Energy Consumption 2020-2030 (Mtoe)**: 22.7–23.6
- **Primary Energy Intensity 2020-2030 (toe/M€)**: 381–173
- **Energy Intensity GAE/GDP 2010 (toe/M€)**: 402–179
- **Energy per Capita – GIC/pop (kgoe/cap)**: 1 637–1 720
- **Final Electricity per Capita (KWh/cap)**: 1 511–2 333
- **Import Dependency (%)**
  - **of Solid Fossil Fuels**: 25.5–17.6
  - **of Hard Coal**: 96.3–103.3
  - **of Oil and Petroleum Products**: 34.4–65.1
  - **of Crude and NGL**: 43.5–70.8
  - **of Natural Gas**: 19.8–12.0

### Renewable in Gross Final Energy (%)

- **Overall RES (with aviation cap)**: 17.57–23.88
- **RE-T – Renewable Energy in Transport**: 1.87–6.34
- **RES-E – Renewable Electricity Generation**: 28.78–41.79
- **RES-H&C – Renewable Heating & Cooling**: 17.93–25.43

### Gases Emissions (Mio ton CO₂)

- **CO₂ Emissions – National total**: 95.9–77.4
- **GHG Emissions – National total**: 143.6–116.5

### Main Emissions Indicators

- **GHG National Total Emissions/index 1990 (%)**: 95.9–77.4
- **Total GHG per Capita (t CO₂(eq)/cap)**: 6.4–6.0

*Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
5.26 Slovenia

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### by Sector

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Methodology and Notes: See Appendices
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**Gross Electricity Generation, by Fuel (TWh)**

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<th>Natural Gas</th>
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**Cogeneration Heat and Power**

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**Transport Fuels (ktoe)**

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**Main Energy Indicators**

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* Total emissions without LULUCF, with ind. CO$_2$, including international aviation, excl. international maritime transport.
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Methodology and Notes: See Appendices
### Installed Electricity Capacity (GW)

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- **Combustible Fuels**
  - 2000: 2.4
  - 2005: 3.1
  - 2010: 3.5
  - 2015: 2.8
  - 2017: 2.6
  - 2018: 2.7

- **Nuclear**
  - 2000: 2.6
  - 2005: 2.6
  - 2010: 1.8
  - 2015: 1.9
  - 2017: 1.9
  - 2018: 1.9

- **Hydro**
  - 2000: 2.6
  - 2005: 2.5
  - 2010: 2.5
  - 2015: 2.5
  - 2017: 2.5
  - 2018: 2.5

- **Wind**
  - 2000: 0.0
  - 2005: 0.0
  - 2010: 0.0
  - 2015: 0.0
  - 2017: 0.0
  - 2018: 0.0

- **Solar**
  - 2000: 0.0
  - 2005: 0.0
  - 2010: 0.5
  - 2015: 0.5
  - 2017: 0.5
  - 2018: 0.5

- **Geothermal, Tide, Wave and Ocean**

### Gross Electricity Generation, by Fuel (TWh)

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<th>Wastes non-RES</th>
<th>Cogeneration Heat and Power</th>
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<th>CHP Electricity Generation (TWh)</th>
<th>CHP in Total Electricity Generation (%)</th>
<th>CHP Heat Production (PJ)</th>
<th>Transport Fuels (ktOE)</th>
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### Main Energy Indicators

- **Primary Energy Consumption 2020-2030 (Mtoe)**
  - 2020: 16.4
  - 2021: 17.4
  - 2022: 16.7
  - 2023: 15.2
  - 2024: 16.1
  - 2025: 15.8

- **Final Energy Consumption 2020-2030 (Mtoe)**
  - 2020: 11.0
  - 2021: 11.6
  - 2022: 11.5
  - 2023: 10.1
  - 2024: 11.1
  - 2025: 11.1

- **Primary Energy Intensity 2020-2030 (toe/€M15)**
  - 2020: 378
  - 2021: 315
  - 2022: 237
  - 2023: 191
  - 2024: 192
  - 2025: 181

- **Energy Intensity GAE/GDP2010 (toe/€M15)**
  - 2020: 410
  - 2021: 338
  - 2022: 252
  - 2023: 204
  - 2024: 206
  - 2025: 195

- **Energy per Capita – GIC/pop (kgoe/cap)**
  - 2020: 3.284
  - 2021: 3.480
  - 2022: 3.286
  - 2023: 3.000
  - 2024: 3.173
  - 2025: 3.132

- **Final Electricity per Capita (KWh/cap)**
  - 2020: 4.077
  - 2021: 4.253
  - 2022: 4.477
  - 2023: 4.495
  - 2024: 4.747
  - 2025: 4.765

- **Import Dependency (%)**
  - 2020: 65.1
  - 2021: 66.0
  - 2022: 64.4
  - 2023: 60.3
  - 2024: 64.8
  - 2025: 63.7

- **Renewable in Gross Final Energy (%)**
  - **Overall RES (with aviation cap)**
    - 2020: 6.36%
    - 2021: 9.10%
    - 2022: 12.88%
    - 2023: 11.47%
    - 2024: 11.90%
  - **RE-T – Renewable Energy in Transport**
    - 2020: 1.63%
    - 2021: 5.22%
    - 2022: 8.54%
    - 2023: 6.91%
    - 2024: 6.96%
  - **RES-E – Renewable Electricity Generation**
    - 2020: 15.74%
    - 2021: 17.77%
    - 2022: 22.66%
    - 2023: 21.34%
    - 2024: 21.50%
  - **RES-H&C – Renewable Heating & Cooling**
    - 2020: 5.03%
    - 2021: 7.90%
    - 2022: 10.79%
    - 2023: 9.84%
    - 2024: 10.60%

### Gases Emissions (Mio ton CO₂)

- **CO₂ Emissions – National total**
  - 2020: 413
  - 2021: 431
  - 2022: 387
  - 2023: 346
  - 2024: 36.3
  - 2025: 36.3

- **GHG Emissions – National total**
  - 2020: 493
  - 2021: 514
  - 2022: 465
  - 2023: 420
  - 2024: 436
  - 2025: 435

### Main Emissions Indicators

- **GHG National Total Emissions/index 1990 (%)**
  - 2020: 67.1
  - 2021: 69.9
  - 2022: 63.2
  - 2023: 57.0
  - 2024: 59.3
  - 2025: 59.2

- **Total GHG per Capita (t CO₂ eq/cap)**
  - 2020: 9.1
  - 2021: 9.6
  - 2022: 8.6
  - 2023: 7.7
  - 2024: 8.0
  - 2025: 8.0

* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
### 5.28 Finland

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#### by Fuel/Product

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#### by Sector

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Methodology and Notes: See Appendices
### Installed Electricity Capacity (GW)

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### Combustible Fuels

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### Gross Electricity Generation, by Fuel (TWh)

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### Main Energy Indicators

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### Renewable in Gross Final Energy (%)

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<th>2005</th>
<th>2010</th>
<th>2015</th>
<th>2017</th>
<th>2018</th>
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<td>Overall RES (with aviation cap)</td>
<td>28.83</td>
<td>32.44</td>
<td>39.32</td>
<td>40.92</td>
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<td>RE-T – Renewable Energy in Transport</td>
<td>0.91</td>
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<td>26.92</td>
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<td>RES-H&amp;C – Renewable Heating &amp; Cooling</td>
<td>39.16</td>
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### Gases Emissions (Mio ton CO₂)

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<th>2015</th>
<th>2017</th>
<th>2018</th>
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<td>CO₂ Emissions – National total*</td>
<td>58.2</td>
<td>58.4</td>
<td>65.8</td>
<td>46.1</td>
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<td>GHG Emissions – National total*</td>
<td>71.3</td>
<td>71.2</td>
<td>77.4</td>
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### Main Emissions Indicators

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<th>2018</th>
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<td>GHG National Total Emissions/index 1990 (%)</td>
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<td>98.6</td>
<td>107.1</td>
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* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
### 5.29 Sweden

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<td>-------</td>
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<td>Installed Electricity Capacity (GW)</td>
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<td>33.4</td>
<td>36.5</td>
<td>39.7</td>
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<td>Gross Electricity Generation, by Fuel (TWh)</td>
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<td>158.4</td>
<td>148.5</td>
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<td>2039</td>
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<td>97</td>
<td>96</td>
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<td>Energy per Capita – GIC/pop (kgoe/cap)</td>
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<td>of Solid Fossil Fuels</td>
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<td>97.4</td>
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<td>100.3</td>
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<td>of Hard Coal</td>
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<td>of Oil and Petroleum Products</td>
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<td>100.4</td>
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<td>98.0</td>
<td>99.3</td>
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<td>100.0</td>
<td>100.0</td>
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<td>102.1</td>
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* Total emissions without LULUCF, with ind. CO₂ including international aviation, excl. international maritime transport.
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#### by Fuel/Product

| Solid Fossil Fuels | 3.7  | 2.5  | 2.4  | 2.3  | 1.8  | 1.7  |
| Oil and Petroleum Products | 52.8 | 53.4 | 48.6 | 47.8 | 49.0 | 48.1 |
| Natural Gas        | 51.4 | 49.8 | 46.5 | 37.7 | 37.8 | 39.2 |
| Renewables and Biofuels | 0.6  | 0.6  | 2.8  | 4.7  | 5.0  | 5.7  |
| Solid Biofuels and Renewable Waste | 0.5  | 0.4  | 1.6  | 2.5  | 2.8  | 3.1  |
| Solar Thermal      | 0.0  | 0.0  | 0.0  | 0.1  | 0.1  | 0.1  |
| Geothermal         | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Liquid Biofuels    | 0.0  | 0.1  | 1.2  | 0.9  | 0.9  | 1.3  |
| Biogases           | 0.1  | 0.1  | 0.1  | 0.2  | 0.2  | 0.2  |
| Waste, Non-Renewable | 0.0  | 0.1  | 0.1  | 0.1  | 0.1  | 0.1  |
| Electricity        | 28.3 | 30.0 | 28.3 | 26.1 | 25.8 | 25.8 |
| Heat               | 2.4  | 1.3  | 1.3  | 1.2  | 1.3  | 1.3  |

#### by Sector

| Industry           | 33.9 | 30.5 | 25.6 | 23.0 | 21.6 | 21.4 |
| Transport          | 42.2 | 43.3 | 40.4 | 40.9 | 41.9 | 41.8 |
| Residential        | 43.1 | 44.2 | 45.5 | 37.3 | 36.8 | 38.0 |
| Services           | 16.9 | 16.8 | 16.5 | 16.8 | 17.8 | 18.0 |
| Agriculture and Fishing | 1.2  | 0.9  | 1.0  | 1.0  | 1.5  | 1.5  |
| Others             | 2.4  | 2.0  | 1.0  | 1.0  | 1.2  | 1.2  |

Methodology and Notes: See Appendices
| Year | Installed Electricity Capacity (GW) | Combustible Fuels | Nuclear | Hydro | Wind | Solar | Geothermal | Tide, Wave and Ocean | Gross Electricity Generation, by Fuel (TWh) | Solid Fossil Fuels, Peat & Products, Oil Shale | Oil and Petroleum Products | Natural Gas | Nuclear | Renewables and Biofuels | Wastes non-RES |
|------|-----------------------------------|------------------|---------|-------|------|-------|------------|---------------------|----------------------------------|-----------------------------------------------|-----------------------------------------------|--------------------------------|-----------|-------------|----------------|------------|
| 2000 | 78.4                              | 61.2             | 12.5    | 4.3   | 0.4  | 0.0   | 0.0        | 0.0                 | 377.1                            | 120.0                                        | 8.4                                   | 150.4     | 85.1        | 12.7        | 0.5         |
| 2005 | 82.4                              | 64.7             | 11.9    | 4.3   | 1.6  | 0.0   | 0.0        | 0.0                 | 398.4                            | 134.6                                        | 5.3                                   | 154.3     | 81.6        | 19.9        | 2.6         |
| 2010 | 93.7                              | 72.9             | 10.9    | 4.4   | 5.4  | 0.1   | 0.0        | 0.0                 | 382.1                            | 107.6                                        | 4.8                                   | 176.8     | 62.1        | 29.3        | 1.4         |
| 2015 | 96.4                              | 58.3             | 9.5     | 4.8   | 14.3 | 9.6   | 0.1        | 0.0                 | 338.1                            | 75.9                                         | 2.0                                   | 101.0     | 70.3        | 85.3        | 3.5         |
| 2017 | 109.3                             | 62.8             | 9.4     | 1.6   | 19.6 | 12.8  | 0.1        | 0.0                 | 336.1                            | 22.5                                         | 1.6                                   | 137.5     | 70.3        | 99.9        | 4.2         |
| 2018 | 108.3                             | 59.3             | 9.3     | 4.8   | 21.8 | 13.1  | 0.0        | 0.0                 | 330.7                            | 16.8                                         | 132.3                                 | 65.1      | 110.6       | 110.6       | 4.9         |

Main Energy Indicators

**Primary Energy Consumption 2020-2030 (Mtoe)**
- 222.0
- 205.1
- 182.5
- 176.7
- 176.1

**Final Energy Consumption 2020-2030 (Mtoe)**
- 153.3
- 143.1
- 132.6
- 133.5
- 134.5

**Primary Energy Intensity 2020-2030 (toe/M€)**
- 109
- 96
- 86
- 69
- 64

**Energy Intensity GAE/GDP2010 (toe/M€)**
- 116
- 102
- 90
- 69
- 67

**Energy per Capita – GIC/pop (kgoe/cap)**
- 5.6
- 5.7
- 6.4
- 6.7
- 7.0

**Final Electricity per Capita (KWh/cap)**
- 5.7
- 5.7
- 5.7
- 4.6
- 4.5

**Import Dependency (%)**
- 39.6
- 72.3
- 50.3
- 59.2
- 58.7
- 82.6
- 39.4
- 71.6
- 50.5
- 58.0
- 55.5
- 80.4
- 39.4
- 71.6
- 50.5
- 58.0
- 55.5
- 80.4
- 39.4
- 71.6
- 50.5
- 58.0
- 55.5
- 80.4

**Renewable in Gross Final Energy (%)**
- Overall RES (with aviation cap) 1.12
- RE-T – Renewable Energy in Transport 0.47
- RES-E – Renewable Electricity Generation 3.24
- RES-H&C – Renewable Heating & Cooling 0.75

**Gases Emissions (Mio ton CO₂)**
- CO₂ Emissions – National total* 594.9
- GHG Emissions – National total* 742.5

**Main Emissions Indicators**
- GHG National Total Emissions/index 1990 (%) 91.7
- Total GHG per Capita (t CO₂ eq/cap) 12.6

* Total emissions without LULUCF, with ind. CO₂, including international aviation, excl. international maritime transport.
Summary

Appendices Methodology ................................................................. 244
   Appendix 1 – Country Nomenclature ........................................... 244
   Appendix 2 – Main Energy Flows in Eurostat Energy Balances – EN .... 245
   Appendix 3 – Main Energy Products in Eurostat Energy Balances – EN ... 246
   Appendix 4 – Symbols and Abbreviations ...................................... 248
   Appendix 5 – Conversion Factors ................................................. 249
   Appendix 6 – Average Calorific Values ......................................... 250

Appendix Glossary .............................................................................. 251
   Appendix 7 – Glossary ................................................................. 251

Appendix Notes ................................................................................... 262
   Appendix 8 – Notes ..................................................................... 262

Notes .................................................................................................... 267
## Appendices Methodology

### Appendix 1 – Country Nomenclature

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EU27_2020 European Union – 27 countries (from 2020)

* Latin transliteration.

Eurostat Website: [http://ec.europa.eu/eurostat/](http://ec.europa.eu/eurostat/)
ISO 3166 Country Codes Maintenance Agency: [https://www.iso.org/iso-3166-country-codes.html](https://www.iso.org/iso-3166-country-codes.html)
## Appendix 2 – Main Energy Flows in Eurostat Energy Balances – EN

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<td>FC_IND_MO_E</td>
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<tr>
<td>FC_IND_FBT_E</td>
<td>Food, beverages and tobacco</td>
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<td>FC_IND_PPP_E</td>
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<tr>
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<td>FC_TRA_DNAV_E</td>
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<td>FC_OTH_HH_E</td>
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### Appendix 3 – Main Energy Products in Eurostat
### Energy Balances – EN

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<td>Brown coal briquettes</td>
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<td>Manufactured gases</td>
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<td>Peat</td>
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<td>Refinery feedstocks</td>
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<td>Ethane</td>
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<td>O4630</td>
<td>Liquefied petroleum gas</td>
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<td>O4640</td>
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<td>O4671XR5220B</td>
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<td>O4691</td>
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<td>O4695</td>
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<td>-----------------------------------------------</td>
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<td>Natural gas</td>
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<td>Renewables and biofuels</td>
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<td>RA500</td>
<td>Tide, wave and ocean</td>
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<tr>
<td>RA300</td>
<td>Wind power</td>
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<td>Solar photovoltaic</td>
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<td>RA410</td>
<td>Solar thermal</td>
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<td>RA200</td>
<td>Geothermal</td>
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<td>Pure biogasoline</td>
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<tr>
<td>R5210B</td>
<td>Blended biogasoline</td>
</tr>
<tr>
<td>R5220P</td>
<td>Pure biodiesels</td>
</tr>
<tr>
<td>R5220B</td>
<td>Blended biodiesels</td>
</tr>
<tr>
<td>R5230P</td>
<td>Pure bio jet kerosene</td>
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<td>R5230B</td>
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<td>W6100_6220</td>
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<td>W6100</td>
<td>Industrial waste (non-renewable)</td>
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<td>Non-renewable municipal waste</td>
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<td>N900H</td>
<td>Nuclear heat</td>
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<tr>
<td>H8000</td>
<td>Heat</td>
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<td>E7000</td>
<td>Electricity</td>
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## Appendix 4 – Symbols and Abbreviations

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<th>Symbol</th>
<th>Meaning</th>
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<td>%</td>
<td>per cent</td>
</tr>
<tr>
<td>€</td>
<td>euro</td>
</tr>
<tr>
<td>0</td>
<td>zero or figure less than half of the unit represented</td>
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<tr>
<td>bbl</td>
<td>barrel</td>
</tr>
<tr>
<td>bcm</td>
<td>billion cubic meters</td>
</tr>
<tr>
<td>Blank</td>
<td>data not available</td>
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<tr>
<td>CHP</td>
<td>combined heat and power</td>
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<tr>
<td>CO₂</td>
<td>carbon dioxide</td>
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<tr>
<td>DG</td>
<td>Directorate-General of the European Commission</td>
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<tr>
<td>EEA</td>
<td>European Environment Agency</td>
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<tr>
<td>equiv.</td>
<td>equivalent</td>
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<td>ESTAT</td>
<td>Eurostat, Statistical Office of the European Union</td>
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<tr>
<td>GCV</td>
<td>gross calorific value</td>
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<td>GDP</td>
<td>gross domestic product</td>
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<tr>
<td>GHG</td>
<td>greenhouse gas</td>
</tr>
<tr>
<td>GJ</td>
<td>gigajoule</td>
</tr>
<tr>
<td>IEA</td>
<td>International Energy Agency</td>
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<tr>
<td>k</td>
<td>thousand</td>
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<tr>
<td>kgoe</td>
<td>kilogram of oil equivalent</td>
</tr>
<tr>
<td>ktoe</td>
<td>kiloton of oil equivalent</td>
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<tr>
<td>kton</td>
<td>kiloton</td>
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<tr>
<td>kWh</td>
<td>kilowatt hour</td>
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<td>LPG</td>
<td>liquefied petroleum gas</td>
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<td>M€ 2010</td>
<td>millions of euro, chain-linked volumes, reference year 2010, at 2010 exchange rates</td>
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<tr>
<td>m³</td>
<td>cubic meter</td>
</tr>
<tr>
<td>Mio</td>
<td>million</td>
</tr>
<tr>
<td>MS</td>
<td>European Union Member State</td>
</tr>
<tr>
<td>MSW</td>
<td>municipal solid waste</td>
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<tr>
<td>Mtoe</td>
<td>million ton of oil equivalent</td>
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<tr>
<td>MW</td>
<td>megawatt</td>
</tr>
<tr>
<td>MWh</td>
<td>megawatt hour</td>
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<tr>
<td>NCV</td>
<td>net calorific value</td>
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<td>NGL</td>
<td>natural gas liquid</td>
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<tr>
<td>p/cap</td>
<td>per capita</td>
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<tr>
<td>PJ</td>
<td>petajoule</td>
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<tr>
<td>PV</td>
<td>photovoltaic</td>
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<td>RES</td>
<td>renewable energy</td>
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<td>RES-E</td>
<td>renewable energy – electricity generation</td>
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<tr>
<td>RES-H&amp;C</td>
<td>renewable energy – heating and cooling</td>
</tr>
<tr>
<td>RES-T</td>
<td>renewable energy – transport</td>
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<tr>
<td>SI Units</td>
<td>International System of Units</td>
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<tr>
<td>TJ</td>
<td>terajoule</td>
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<tr>
<td>toe</td>
<td>ton of oil equivalent</td>
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<tr>
<td>ton</td>
<td>metric ton, metric tonne, mt</td>
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<tr>
<td>TPES</td>
<td>Total Primary Energy Supply</td>
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<tr>
<td>TWh</td>
<td>terawatt hour</td>
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<tr>
<td>UNFCCC</td>
<td>United Nations Framework Convention on Climate Change</td>
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<td>VAT</td>
<td>Value Added Tax</td>
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## Appendix 5 – Conversion Factors

### ENERGY

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<th>FROM:</th>
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<th>TJ</th>
<th>Mtoe</th>
<th>GWh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terajoule (TJ)</td>
<td></td>
<td>1</td>
<td>1/41868</td>
<td>/3.6</td>
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<tr>
<td>Million ton of oil equivalent (Mtoe)</td>
<td></td>
<td>X 41868</td>
<td>1</td>
<td>X 11630</td>
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<tr>
<td>Gigawatt-hour (GWh)</td>
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<td>X 3.6</td>
<td>/11630</td>
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### VOLUME

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<tr>
<th>FROM:</th>
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<th>l</th>
<th>bbl</th>
<th>gal US</th>
<th>gal UK</th>
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<tbody>
<tr>
<td>Litre (l)</td>
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<td>0.6290 x 10^-2</td>
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<td>Barrel (bbl)</td>
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<td>158.99</td>
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<td>34.9723</td>
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<td>U.S. gallon (gal US)</td>
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<td>3.7854</td>
<td>0.2381 x 10^-1</td>
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<td>0.8327</td>
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<td>U.K. gallon (gal UK)</td>
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<td>4.5461</td>
<td>0.2859 x 10^-1</td>
<td>1.2009</td>
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### MASS

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<th>t</th>
<th>lt</th>
<th>st</th>
</tr>
</thead>
<tbody>
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<td>Ton, Tonne (t)</td>
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<td>1</td>
<td>0.9842</td>
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<td>Long ton (lt) UK</td>
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<td>1.0160</td>
<td>1</td>
<td>1.1200</td>
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<tr>
<td>Short ton (st) US</td>
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Appendix 6 – Average Calorific Values*

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<td>Coking coal</td>
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<tr>
<td>Sub-bituminous coal</td>
<td>18.9</td>
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<tr>
<td>Lignite</td>
<td>11.9</td>
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<td>Patent fuels</td>
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<tr>
<td>Coke oven coke</td>
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<tr>
<td>Gas coke</td>
<td>28.2</td>
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<tr>
<td>Coal tar</td>
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<td>Brown coal briquettes**</td>
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<td>Peat</td>
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<td>Peat products*</td>
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<td>Refinery feedstocks</td>
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<td>Additives and oxygenates**</td>
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<td>Other hydrocarbons (w/o bio)**</td>
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<td>Ethane</td>
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<td>Aviation gasoline**</td>
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<tr>
<td>Gasoline-type jet fuel**</td>
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<td>Kerosene-type jet fuel**</td>
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<td>Gas oil and diesel oil (w/o bio)</td>
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<td>(Residual) Fuel oil</td>
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<td>Other oil products</td>
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<td>Charcoal</td>
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<tr>
<td>Pure bio jet kerosene**</td>
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<td>Blended bio jet kerosene**</td>
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<tr>
<td>Other liquid biofuels</td>
<td>27.4</td>
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Appendix Glossary

Appendix 7 – Glossary

In parenthesis are the codes for energy products and energy flows and indicators from the EUROSTAT Energy database/EUROBASE as of June 2019. More extensive explanations is available on Eurostat website at: https://ec.europa.eu/eurostat/web/energy/data/energy-balances

ALL FUELS

‘All fuels’ (which corresponds to the code ‘Total’), covers all energy products. These consist of solid fossil fuels (including hard coal and derivatives, brown coal and derivatives, peat and derivatives, oil shale and oil sands, oil and petroleum products (such as LPG, refinery gas, motor spirit, kerosene, gas/diesel oil, residual fuel oil), natural gas, manufactured gases, renewable and biofuels (such as hydro power, wind energy, biomass, wastes, geothermal energy, ambient heat for heat pumps), electrical energy, heat energy and nuclear heat.

AMBIENT HEAT (HEAT PUMPS)

It is the ambient heat (RA600) captured by heat pumps as a fuel. It is included at the renewable energy category and can either be used to produced heat for sale (input in transformation for heat production) or used directly by end-users (final energy consumption). The ambient heat captured by heat pumps is included in Eurostat’s energy balances as of January 2019 edition.

ANNUAL INSTALLED CAPACITY

Annual installed or new installed capacity of a given source refers to the capacity entering in operation, during a year period.

AUTOPRODUCER: ELECTRICITY AND HEAT GENERATION

Autoproducers are plants which generate electricity and/or heat for their own use.

AVAILABLE FOR FINAL CONSUMPTION (ENERGY)

Energy available for final consumption covers the energy placed at the disposal of final users. This code is calculated as follows: total energy supply (NRGSUP) + transformation output (TO) - transformation input (TI_E) - consumption of the energy sector (NRG_E) - distribution losses (DL).

BIOFUELS

Biofuels are fuels derived directly or indirectly from biomass. Biofuels used for non-energy purposes are excluded from the scope of energy statistics. Biofuels can be split up into three categories: Solid biofuels, liquid biofuels and biogases. Liquid or gaseous fuels used primarily for transport, produced from biomass and renewable waste. The liquid biofuels groups pure biogasoline (R5210P), blended biogasoline (R5210B), pure biodiesel
(R5220P), blended biodiesel (R5220B), pure bio jet kerosene (R5230P), blended bio jet kerosene (R5230B) and other liquid biofuels (R5290).

**BIOFUELS AND RES WASTE**

Biofuels and RES municipal wastes (W6210), covers organic, non-fossil material of biological origin, which may be used for heat production or electricity generation. They comprise primary solid biofuels such as wood and wood waste (R5110-5150_W6000RI), biogases (R5300), renewable municipal waste (W6210), charcoal (R5160) and biofuels such as: pure gasoline (R5210P), blended gasoline (R5210B), pure biodiesel (R5220P), blended biodiesel (R5220B), pure bio jet kerosene (R5230P), blended bio jet kerosene (R5230B) and other liquid biofuels (R5290). The non-renewable part of municipal waste (W6220) and the industrial waste (W6100) are included in non-renewable waste (W6100_6220).

**CAPACITY FACTOR — ANNUAL AVERAGE**

It is a measure of efficiency, which is defined as the ratio of actual energy output of a source against its annual maximum potential output, or in other words, to the energy it would produce if operated at full rated power for 8000 hours a year (i.e. 24 hours per day for about 11 months, assuming one month per year for annual maintenance). It is equal to the total annual energy production, divided by the cumulative capacity converted to average statistical year base.

**CHP — COMBINED HEAT AND POWER**

Combined heat and power plant refers to a plant designed to produce simultaneously heat and electricity in one process. It is sometimes referred to as co-generation power stations.

**CONVENTIONAL THERMAL POWER**

It is a technology for the production of electricity by fuel combustion. It will include biomass use, which is also considered a renewable source of electricity. Thermal power stations cover conventional public utility power stations for the production of electricity and heat, as well as in auto-producer power stations for the generation of electricity and heat sold to third parties only.

**CUMULATIVE INSTALLED CAPACITY**

This represents the running sum for consecutive periods of a given installed source. It indicates the total capacity availability in each of those periods.

**ELECTRICITY MIX**

The electricity mix is the proportion of different sources in electricity production. While energy mix is measured at gross inland consumption level, electricity mix is measured at energy transformation into electricity level (i.e. in gross electricity generation).
ENERGY AVAILABLE FOR FINAL CONSUMPTION
Energy available for final consumption, [AFC], covers the energy placed at the disposal of final users. This code is calculated as follows: total energy supply [NGSUP] + transformation output [TO] - transformation input [TI] - consumption of the energy sector [NRG_E] - distribution losses [DL]. It includes final non-energy consumption [FC_NE] and Final energy consumption [FC_E].

ENERGY IMPORT DEPENDENCY
Energy dependency shows the extent to which a country relies upon imports in order to meet its energy needs. It is calculated using the following formula: net imports (as imports – exports, i.e. [IMP]-[EXP])/(gross inland consumption [GIC] + international maritime bunkers [INTMARB]).

ENERGY INTENSITY
Energy intensity gives an indication of the effectiveness with which energy is being used to produce added value. It is defined as the ratio of Gross available energy [GAE] to Gross Domestic Product [GDP].

ENERGY MIX
The energy mix is the proportion of main sources in gross inland consumption (excluding electricity and heat).

ENERGY SECTOR BROAD DEFINITION
It includes the electricity, gas, steam, and air conditioning supply sector as well as the energy commodities production activities, mining and extraction, support activities and manufacture of energy products.

ENERGY SECTOR NARROW DEFINITION
It includes the electricity, gas, steam, and air conditioning supply sector.

EUROBASE
The Eurostat, web based, dissemination database contains the full range of publically available data from Eurostat. The Eurobase is available at: https://ec.europa.eu/eurostat/data/database

FINAL ENERGY CONSUMPTION (FEC)
Final energy consumption covers energy supplied to the final consumer’s sectors for all energy uses [FC_E]. It excludes deliveries to the energy transformation sector and to the energy industries themselves. It is the sum of final energy consumption by industry [FC_IND_E], transport [FC_TRA_E], household [FC_OTH_HH_E], commercial & public services [FC_OTH_CP_E], agriculture & forestry [FC_OTH_AF_E], fishing [FC_OTH_FISH_E] and other unspecified [FC_OTH_NSP_E].
FINAL ENERGY CONSUMPTION 2020-2030
In order to allow comparison with Europe 2020 targets established prior to the actual methodology of energy balance, this Eurostat indicator [FEC 2020-2030] estimates Final energy consumption to that calculated under the old methodology – the methodology in place at the time of establishing the Directive 2012/27/EU and Europe 2020 energy efficiency targets. This indicator should be used also for tracking progress towards Europe 2030 energy efficiency targets.

FINAL ENERGY CONSUMPTION – TRANSPORT
Final energy consumption – transport [FC_TRA_E], covers the consumption in all types of transportation, i.e., rail, road, domestic aviation, domestic navigation, pipeline transport and transport consumption not elsewhere specified.

FINAL NON-ENERGY CONSUMPTION
Final non-energy consumption covers the use of energy products for non-energy purposes [FC_NE].

GDP – GROSS DOMESTIC PRODUCT
The gross domestic product is the value of the output of all goods and services produced within the borders of a country. The income measure of gross domestic product (GDP) is derived as compensation of employees plus gross operating surplus plus gross mixed incomes plus taxes less subsidies on both production and imports.

GDP AT CONSTANT MARKET PRICES
GDP values, used, were referenced to year 2015, in millions of euro, chain-linked volumes, at 2015 exchange rates.

GHG – GREENHOUSE GAS
GHG includes gases that contribute to the natural greenhouse effect. The Kyoto Protocol covers a basket of six greenhouse gases (GHGs) produced by human activities: carbon dioxide, methane, nitrous oxide, hydro fluorocarbons, perfluorocarbons and sulphur hexafluoride.

GHG GDP INTENSITY
This represents the average emission rate of GHG emissions of an economy relative to its GDP.

GHG INTENSITY OF THE ENERGY CONSUMPTION
GHG Intensity of the Energy Consumption [kg CO₂ eq./toe] represents the average emission rate of greenhouse gas (GHG) emissions from energy related activities of an economy relative to its gross inland consumption.
GROSS AVAILABLE ENERGY
Gross available energy (GAE) represents the quantity of energy necessary to satisfy all energy demand of entities operating under the authorities of the geographical entity under consideration. Gross available energy is defined by the formula: primary production (PPRD) + Recovered & Recycled Products (RCV_RCY) + Imports (IMP) – Exports (EXP) + Stock changes (STK_CHG).

GROSS CALORIFIC VALUE (GCV)
The gross calorific value is the total amount of heat released by a unit quantity of fuel, when it is burned completely with oxygen, and when the products of combustion are returned to ambient temperature. This quantity includes the heat of condensation of any water vapour contained in the fuel and of the water vapour formed by the combustion of any hydrogen contained in the fuel.

GROSS ELECTRICITY GENERATION
The gross electricity generation is measured at the outlet of the main transformers, i.e. the consumption of electricity in the plant auxiliaries and in transformers is included.

GROSS ELECTRICITY GENERATION PENETRATION LEVEL
Electricity penetration level refers to the fraction of gross electricity production of a source, compared with the total gross electricity generation, all sources.

GROSS FINAL ENERGY CONSUMPTION
Gross final consumption of energy means the energy commodities delivered for energy purposes to industry, transport, households and services (including public services), agriculture, forestry and fisheries, including the consumption of electricity and heat by the energy branch for electricity and heat production and including losses of electricity and heat in distribution and transmission.
The gross (overall) final consumption of energy from renewable sources is calculated as the sum of: (a) gross final consumption of electricity from renewable energy sources; (b) gross final consumption of energy from renewable sources for heating and cooling; and (c) final consumption of energy from renewable sources in transport.

GROSS HEAT PRODUCED
It is the total heat produced, including losses in the installations/network heat exchanges, as well as heat from chemical processes used as primary energy form. For auto-producers, the heat used by the undertaking for its own processes is not included here. Only heat sold to third parties should be reported.
GROSS INLAND CONSUMPTION
Gross inland consumption [GIC] represents the quantity of energy necessary to satisfy inland consumption of the geographical entity under consideration, i.e. the Total Energy Supply [NRGSUP], plus the international aviation [INTAVI]. It is also calculated using the following formula: gross available energy [GAE] – International maritime bunkers [INTMARB]. Gross inland consumption is calculated to ensure continuity and transition from the old Eurostat energy balance into the new Eurostat energy balance methodology.

GROSS INLAND CONSUMPTION 2020-2030
This indicator [GIC 2020-2030] estimates Gross inland consumption to that calculated under the old methodology – the methodology in place at the time of establishing the Europe 2020 targets. This indicator should be used also for tracking progress towards Europe 2030 targets.

GROSS INSTALLED (ELECTRICITY) CAPACITY
This covers the gross installed electrical capacity of thermal, nuclear, hydro, geothermal, wind and any other types of power plants.

INHABITANTS
This represents the group of persons fulfilling the requirements for legal permanent residency in a region/country.

ISG
The Inter-institutional style guide is intended to serve as a reference tool for written works for all European Union institutions, bodies and organisations, representing an achievement in linguistic harmonisation.

ISIC
The International Standard Industrial Classification of All Economic Activities is a United Nations system for classifying economic activity data, in the fields of production, employment, gross domestic product and other statistical areas.

LFS
The EU Labour Force Survey (LFS) is a large sample survey among private households which provides detailed annual and quarterly data on: employment, unemployment and inactivity.
The LFS is an important source of information about the situation and trends in the EU labour market, with a sample size is about 1.5 million people every quarter.
The data can be broken down along many dimensions including age, sex, educational attainment, and distinctions between permanent/temporary and full-time/part-time employment. In terms of employment figures are more representative of the total sector, but unfortunately not so disaggregated as the SBS survey.
LONG SCALE – SHORT SCALE

The long and short scales are two of several different large-number naming systems used for integer powers of ten.

Many countries, including most in continental Europe, use the long scale whereas most English-speaking countries and Arabic-speaking countries use the short scale.

In the long scale every new term greater than a million is a million times the previous term. Thus, billion means a million millions, trillion means a million billions, and so on.

In the short scale every new term greater than million is 1,000 times the previous term. Thus, billion means a thousand millions, trillion means a thousand billions.

<table>
<thead>
<tr>
<th>Name</th>
<th>Long Scale Value in Scientific notation</th>
<th>Short Scale Value in Scientific notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>million</td>
<td>$10^6$</td>
<td>$10^6$</td>
</tr>
<tr>
<td>billion</td>
<td>$10^{12}$</td>
<td>$10^9$</td>
</tr>
<tr>
<td>trillion</td>
<td>$10^{18}$</td>
<td>$10^{12}$</td>
</tr>
<tr>
<td>to the next</td>
<td>multiply by 1,000,000</td>
<td>multiply by 1,000</td>
</tr>
</tbody>
</table>

Milliard is used in several languages that use the long scale to represent a corresponding value to billions in short scale, i.e. $10^9$.

MANUFACTURED GASES

Manufactured gases [C0350-0370] covers coke oven gas [4210], blast furnace gas [4220], gas work gas [4230], and other recovered gas [4240].

NACE

NACE is the acronym used to designate the various statistical classifications of economic activities developed since 1970 in the European Union. It provides the framework for collecting and presenting a large range of statistical data according to economic activity in the fields of economic statistics (e.g. production, employment, national accounts) and in other statistical domains.

NET CALORIFIC VALUE (NCV)

The net calorific value is the amount of heat released by a unit quantity of fuel, when it is burned completely with oxygen, and when the products of combustion are returned to ambient temperature. This quantity does not include the heat of condensation of any water vapour contained in the fuel nor of the water vapour formed by the combustion of any hydrogen contained in the fuel.
NET ELECTRICITY GENERATION
It is the amount of gross generation a generator produces less the electricity used to operate the plant.

NET IMPORTS
Net import is calculated as the difference between imports [IMP] and exports [EXP].

OIL AND PETROLEUM PRODUCTS
Oil and petroleum products [O4000XBIO] include crude oil [O4100_TOT], natural gas liquids [O4200], refinery feedstocks [O4300], additives and oxygenates (excl biofuel portion) [O4400X4410], other hydrocarbons [O4500] and the oil products such as LPG [O4630], refinery gas [O4620], ethane [O4620], motor gasoline [O4652X5R5210B], aviation gasoline [O4651], gasoline-type jet fuel [O4653], kerosene-type jet fuels [O4661XR5230B], other kerosene [O4669], naphtha [O4640], gas/diesel oil [O4671XR5220B], fuel oil [4680], white spirit [O4691], lubricants [O4692], bitumen [O4695], petroleum coke [O4694], paraffin waxes [O4693] and other oil products [O4699].

PRIMARY ENERGY CONSUMPTION
Primary energy consumption corresponds to the Gross Inland consumption minus the energy included in the final non-energy consumption.

PRIMARY ENERGY CONSUMPTION 2020-2030
This indicator [PEC 2020-2030] reflects on the definition given in Article 2 of the Directive 2012/27/EU as well as the methodology of energy balances in place at the time of establishing the Directive and Europe 2020 energy efficiency targets. This indicator should be used also for tracking progress towards Europe energy efficiency 2030 targets. This is an aggregate with the following arithmetic definition: [PEC 2020-2030] = [GIC 2020-2030] – Final non-energy consumption [FC_NE].

PRIMARY ENERGY INTENSITY 2020-2030
Primary energy intensity 2020-2030 gives an indication of the effectiveness with which primary energy consumption produces added value. It is defined as the ratio of Primary Energy Consumption 2020-2030 to Gross Domestic Product.

PRIMARY ENERGY PRODUCTION – INDIGENOUS PRODUCTION
Primary production [PPRD] is any kind of extraction of energy products from natural sources to a usable form is called primary production. Primary production takes place when the natural sources are exploited, for example in coal mines, crude oil fields, hydro power plants or fabrication of biofuels.
Transformation of energy from one form to another, such as electricity or heat generation in thermal power plants, or coke production in coke ovens, is not included in primary production. In general for solid fossil fuels and peat, production includes the quantities consumed by the producer during the production as well as any quantities supplied to other on-site producers of energy for transformation or other uses. For oil and petroleum products, production includes only marketable production, and excludes any quantities returned to formation. For natural gas, the production includes all quantities used within the natural gas industry, in gas extraction, pipeline systems and processing plants. For nuclear, the production is the actual heat produced or the heat calculated on the basis of the gross electricity generated and the thermal efficiency of the nuclear plant. For renewables generating electricity (hydro, wind, solar thermal-electric and photovoltaic) production is calculated on the basis of the gross electricity generated and a conversion factor of 3600 kJ/kWh. For geothermal, production is calculated on the basis of the difference between the enthalpy of the fluid produced in the production borehole and that of the fluid disposed of via the re-injection borehole. In the case of municipal solid wastes (MSW), wood, wood wastes and other solid wastes, production is the heat produced after combustion and corresponds to the heat content (NCV) of the fuel. In the case of anaerobic digestion of wet wastes, production is the heat content (NCV) of the biogases produced. The production includes all quantities of gas consumed in the installation for the fermentation processes, and excludes all quantities of flared gases. In the case of bioliquids, the production is the heat content (NCV) of the fuel.

**PUMPING, PUMPED STORAGE**

Method for storing electrical energy at hydroelectric installations by pumping water between reservoirs at different altitudes

**RENEWABLES AND BIOFUELS (RES):**

Renewables and biofuels [RA000] cover hydro power [RA100], tide, wave and ocean power [RA500], wind power [RA300], solar photovoltaic [RA420] and solar thermal [RA410], geothermal [RA200], renewable municipal waste [W6210], ambient heat [RA600] and biofuels such as: primary solid biofuels [R5110-S150_W6000RI], charcoal [R5160], pure biogasoline [R5210P], blended biogasoline [R5210B], pure biodiesels [R5220P], blended biodiesels [R5220B], pure bio jet kerosene [R5230P], blended bio jet kerosene [R5230B] and other liquid biofuels [R5290].

**SBS**

Structural business statistics cover industry, construction, trade and services. Presented according to the NACE activity classification, they describe the structure, conduct and performance of businesses across the European Union.
SOLAR ENERGY
Solar energy is solar radiation exploited for hot water production – solar thermal [RA410] and electricity generation – solar photovoltaic [RA420]. This energy production, is the heat available to the heat transfer medium, i.e. the incident solar energy less the optical and collectors’ losses.

SOLID FOSSIL FUELS
Solid fossil fuels [C0000X0350-0370] category of energy products includes Hard coal [C0100] (further including Anthracite [C0110], Coking coal [C0121] and Other bituminous coal [C0129]), Brown coal [C0200] (further including Sub-bituminous coal [C0210] and Lignite [C220]) and Coal products [C0300] (further including Patent fuel [C0320], Coke oven coke [C0311], Gas coke [C0312], Coal tar [C0340] and Brown coal briquettes [C0330]). Quantities of fuels extracted or produced, calculated after any operation for removal of inert matter.

TONNE OF OIL EQUIVALENT (toe)
The tonne of oil equivalent is a conventional standardised unit for measuring energy, defined on the basis of a tonne of oil with a net calorific value of 41 868 kilojoules/kg.

TOTAL ENERGY SUPPLY
Total energy supply [NRGSUP] is one of the most important aggregate of energy balance and represents the quantity of energy necessary to satisfy inland consumption (inland fuel deliveries) of the geographical entity under consideration.
Total energy supply is the sum of Primary production [PPRD], Recovered & recycled products [RCV_RCY], Imports [IMP] from which are subtracted: Exports [EXP], Stock changes [STK_CHG], International maritime bunkers [INTMARB] and international aviation [INTAVI].
Total Energy Supply is also equivalent to Gross Inland Consumption [GIC] minus International Aviation [INTAVI].

TOTAL PRIMARY ENERGY SUPPLY
Total primary energy supply [TPES] is an IEA energy flow, defined as the quantity of energy necessary to satisfy inland consumption of the geographical entity under consideration. It is equal to the indigenous production + imports – exports – international marine bunkers – international aviation bunkers +/- stock changes. It corresponds to the Eurostat’s Total energy supply [NRGSUP].
**TRANSFORMATION INPUT**
Transformation input [TI_E] covers all inputs into the transformation plants destined to be converted into derived products. Transformation is only recorded when the energy products are physically or chemically modified to produce other energy products, electricity and/or heat. Quantities of fuels used for heating, operation of equipment and in general in support of the transformation are not included in Transformation input but in Energy sector [NRG_E].
Transformation Input is the sum of the inputs for electricity & heat generation plants [TI_EHG_E], coke ovens [TI_CO_E], blast furnaces [TI_BF_E], gas works [TI_GW_E], refineries & petrochemical industry [TI_RPI_E], patent fuel plants [TI_PF_E], BKB & PB plants [TI_BKBPB_E], coal liquefaction plants [TI_CL_E], for blended natural gas [TI_BNG_E], liquid biofuels blended [TI_LBB_E], charcoal production plants [TI_CPP_E], gas-TI-liquids plants [TI_GTL_E] and others not elsewhere specified [TI_NSP_E].

**TRANSFORMATION LOSSES**
The difference between transformation input and transformation output constitutes transformation losses.

**TRANSFORMATION OUTPUT**
Transformation output [TO_E] is the result of the transformation process of energy products. This output covers production of derived products (secondary products, by-products and co-products). Transformation output refers always to gross production of derived products, i.e. the products used for the own consumption of the transformation plants are included in the transformation output and their use is reported in the Energy sector. Transformation output is the sum of the output from electricity & heat generation plants [TO_EHG_E], coke ovens [TO_CO_E], blast furnaces [TO_BF_E], gas works [TO_GW_E], refineries & petrochemical industry [TO_RPI_E], patent fuel plants [TO_PF_E], BKB & PB plants [TO_BKBPB_E], coal liquefaction plants [TO_CL_E], for blended natural gas [TO_BNG_E], liquid biofuels blended [TO_LBB_E], charcoal production plants [TO_CPP_E], gas-TI-liquids plants [TO_GTL_E] and others not elsewhere specified [TO_NSP_E].

**TURNOVER**
Or Gross Premium Written comprises the totals invoiced by the observation unit during the reference period, and this corresponds to market sales of goods or services supplied to third parties.

**UNEMPLOYMENT RATE**
The unemployment rate represents unemployed persons as a percentage of the active population.
Appendix Notes

APPENDIX 8.1

1.1.1, 1.1.2 PAGES 10, 11
Energy production corresponds to the indigenous energy production (IEA methodology). It does not include production from other sources. Asia aggregation does not include China data.

1.1.2, 1.1.4, 1.1.6, 1.1.8, PAGES 11, 13, 15 AND 17
Solid fuels, includes hard coal, lignite and peat, as well as derived fuels. Petroleum and (petroleum) sub-products comprises crude oil, NGL, feedstock, additives as well as other hydrocarbons. RES (renewables) is equal to the sum of hydro, geothermal, solar PV, solar thermal, tide, wind, municipal waste, primary solid biofuels, biogases, bio gasoline, biodiesel, other liquid biofuels, non-specified biofuels and charcoal energy. Industrial waste not included.

1.1.3, 1.1.4, PAGES 12, 13
Total Energy Supply according to EUROSTAT methodology (see glossary) corresponds to the Total Primary Energy Supply (see glossary TPES), of the IEA methodology. Asia aggregation does not include China data.

1.1.5, 1.1.6, PAGES 14, 15
Final energy consumption covers energy supplied to the final consumer’s door for all energy uses. Asia aggregation does not include China data.

1.1.8, PAGE 17
It is the total heat produced, including losses in the installations/network heat exchanges. However only autoproducers heat sold to third parties is here included. Auto-producers heat, used by the undertaking for their own processes, is excluded.

1.1.10, PAGE 19
CO₂ Intensity refers to CO₂ emissions activity intensity, measured by its energy gross inland consumption.

1.3.1, PAGE 27
Overall RES share is measured against the total gross final energy consumption.
APPENDIX 8.2

2.1.1, PAGES 37-39
Production comprises primary production [PPRD] and products recovered \& recycled [RCV_RCY].

2.1.2, PAGES 40-42
Net imports correspond to the difference between imports [IMP] and exports [EXP].

2.1.4, PAGES 44-47
Gross inland consumption [GIC] represents the quantity of energy necessary to satisfy inland consumption of the geographical entity under consideration, including the international aviation [INTAVI]. This aggregate is calculated to ensure continuity and transition from the old Eurostat energy balance into the new Eurostat energy balance.

2.2.1, PAGES 49-53
Solid fossil fuels – see glossary

2.2.2, PAGES 54-58
Total oil and petroleum products – see glossary. Crude oil and NGL is a subgroup containing only crude oil [04100_TOT] and natural gas liquids [04200] codes.

2.3, PAGES 71-77
See glossary energy import dependency. Please note that hard coal dependency is a part of the solid fuels dependency, natural gas, of the gases dependency, and crude and NGL of the total petroleum and petroleum sub-products dependency. The total import dependency covers all fuels and it is not a simple average of the upper mentioned products.

2.5.1, PAGE 84
Energy available for final consumption covers the energy placed at the disposal of final users. It includes final non-energy consumption.

2.5.2, PAGE 85
Final non-energy consumption covers the use of energy products in non-energy purposes.

2.5.3, PAGES 86-89
Final energy consumption covers energy supplied to the final consumer’s door for all energy uses. It does not include final non-energy consumption.
2.6.1, PAGES 90-92
Installed capacity represents the maximum active power that can be supplied, continuously, with all systems running. Please note that combustible fuels include not only fossil fuels, as well as biomass and wastes, that are later included, also, in the renewables installed capacity.

2.6.2, PAGES 93-97
The gross electricity generation is measured at the outlet of the main transformers, i.e. the consumption of electricity in the plant auxiliaries and in transformers is included.

2.7.1, PAGES 99-100
Intermittent energy only includes wind and solar energy. Tide is not included in the totals. The share of the intermittent energy is measured against total installed capacity, all sources.

2.7.2-2.7.8, PAGES 101-108
Wind and solar energy generated by all producers. Annual installed capacity includes new installations and replacement of former wind or solar systems.

2.7.3, 2.7.4, PAGES 103-104
Gross electricity production wind share measures the percentage of wind produced electricity in the total production. Average capacity factor it is the ratio of actual energy output of wind sources against its annual maximum potential output. It is equal to the total annual electricity production, divided by the cumulative capacity converted to an average statistical year base.

2.7.8, PAGE 108
Gross electricity production solar share measures the percentage of solar produced electricity in the total production.

2.8, PAGES 110-112
The data collection for CHP generation is not based in the annual Heat survey, but instead on a specific survey in accordance with the Energy Efficiency Directive 2018/2002/EU. Differences can appear between the two datasets.

2.9, PAGES 113-115
Data is generated by the annual heat survey. Heat, in these tables, include the total heat produced, including losses in the installations/network heat exchanges, as well as heat from chemical processes used as primary energy form. Only heat sold to third parties is here reported.
2.10, PAGES 116-118
The tables include the total final energy consumption of petroleum products, and two of its main products: motor gasoline [O4652XR5210B], and Gas oil and diesel oil [O4671XR5220B], and the total final energy consumption of biofuels with its two main products: biogasoline [R5210] and biodiesel [R5220].

2.11.1, PAGE 119
Energy intensity gives an indication of the effectiveness with which energy is being used (GIC) to produce an added value (GDP).

2.11.4, PAGE 122
Primary energy intensity gives an indication of the effectiveness with which primary energy is being used to produce an unit of added value (GDP).

2.13, PAGES 129-135
All available price data has been used in the calculation of EU-wide fuel price averages. The overall EU price is an average of the prices in the individual countries weighted by their consumption.

PETROLEUM PRODUCTS
Heating gasoil, low sulphur fuel oil, unleaded petrol and automotive diesel prices are supplied by the Member States to DG ENERGY as those being the most frequently encountered for the specific categories of sales. The prices are as of January 15th in each year.
The heating gasoil prices given are for deliveries of between 2 000 and 5 000 litres while those for low sulphur fuel oil are for monthly deliveries of less than 2 000 tonnes or annual deliveries of less than 24 000 tonnes. The average pump prices are given for motor fuels.
The EU average prices are calculated by weighting the prices from each country by the corresponding final energy consumption.

ELECTRICITY AND GAS
The legal basis for the collection of industrial gas and electricity prices is defined by EC Directive 2008/92/EC. The collection of prices includes national average prices of the last 6 months reported by different consumer bands. All taxes are included in the current prices. Consumption bands have been selected as the most representative for the exercise.
APPENDIX 8.3

3.1.1, PAGE 140
Energy activities sector in its broad and narrow definition as defined by EUROSTAT/NACE and UN/SIC nomenclatures (sector D35 according to NACE codes).

3.2, PAGES 141-152
Includes data on number of enterprises, turnover, and persons declared as employed, as originated from the SBS survey that targets especially enterprises business. At employment level is more disaggregated but less complete than the LFS survey.

3.3, PAGES 153-156
Data is extracted from DG Economic and Financial Affairs, AMECO database. Differences mainly due to data freshness, constant revisions, and methodology can appear when comparing with Eurostat economic data.

3.5, PAGES 158-160
Data from the LFS survey. At employment level, this dataset presents larger figures than the SBS, due to the difference of methodology, and its sample size.

APPENDIX 8.4

4.1.1, PAGES 164-168
GHG, greenhouse gases, are gases that contribute to the natural greenhouse effect. GHG emissions aggregate includes emissions due to energy related activities and other non-energy related emissions from industrial processes, agriculture, waste management, others. Energy related emissions include those from energy industries, manufacturing industries and construction, transport, commercial and institutional, residential, agriculture, forestry/fisheries and other combustion and fugitive emissions.

4.1.2 PAGES 169-173
Structure of emissions similar to the GHG emissions.

APPENDIX 8.5

For products see appendix 3 and the glossary from appendix 7. For energy flows see appendix 2 and the glossary from appendix 7. For abbreviations, conversion factors and units see the explanations provided in appendices 6 and 7.
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