



European
Commission

EU energy in figures

STATISTICAL
POCKETBOOK
2014



This publication does not involve the European Commission in liability of any kind.

***Europe Direct is a service to help you find answers
to your questions about the European Union.***

Freephone number (*):

00 800 6 7 8 9 10 11

(*) The information given is free, as are most calls
(though some operators, phone boxes or hotels may charge you).

More information on the European Union is available on the Internet
(<http://europa.eu>).

Luxembourg: Publications Office of the European Union, 2014

ISBN 978-92-79-29317-7

doi:10.2833/24150

© European Union, 2014

Reproduction is authorised provided the source is acknowledged.

Cover: © Sergey Nivens/iStock/Thinkstock

Other photos: P.7: © Viola08/iStock/Thinkstock; P.31 © 1xpert/iStock/Thinkstock;

P.131 © zorandimzr/iStock/Thinkstock; P. 155 © kruwt/iStock/Thinkstock;

P.171 © Mimiche/iStock/ Thinkstock

Printed in Belgium

PRINTED ON ELEMENTAL CHLORINE-FREE BLEACHED PAPER (ECF)

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 Gross Inland Consumption by Region	12
1.1.4.	World Gross Inland Consumption by Fuel	13
1.1.5.	World Final Energy Consumption by Region	14
1.1.6.	World Final Energy 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 CO ₂ Emissions by Region	18
1.1.10.	World CO ₂ Intensity by Region	19
1.2.	Energy in the EU (Overview)	20
1.2.1.	EU Energy Flow – 1995	20
1.2.2.	EU Energy Flow – 2012	21
1.2.3.	EU-28 Gross Inland Consumption	22
1.2.4.	EU-28 Energy Import Dependency	24
1.2.5.	EU-28 Energy Import Dependency – Net Imports	25
1.2.6.	EU-28 Imports by Country of Origin	26
1.3.	EU 2020 Targets	27
1.3.1.	Renewable Energy Targets	27
1.3.2.	Renewable Energy Shares	29
1.3.3.	GHG Emissions Targets	30

PART 2 Energy in the EU

2.1.	Energy Supply	35
2.1.1.	Production	35
2.1.2.	Net Imports	38
2.1.3.	Gross Inland Consumption	41
2.2.	Imports	45
2.2.1.	Imports – Solid Fuels	45
2.2.2.	Imports – Petroleum and Products	50
2.2.3.	Imports – Gases	55
2.2.4.	Imports – Electricity	59
2.2.5.	Imports by Country of Origin	63

2.3.	Energy Import Dependency	66
2.3.1.	Import Dependency – All Fuels	66
2.3.2.	Import Dependency by Fuel	67
2.3.3.	Import Dependency – Solid Fuels	68
2.3.4.	Import Dependency – Hard Coal	69
2.3.5.	Import Dependency – Petroleum and Products	70
2.3.6.	Import Dependency – Crude and NGL	71
2.3.7.	Import Dependency – Natural Gas	72
2.4.	Energy Transformation	73
2.4.1.	Transformation Input – All Fuels	73
2.4.2.	Transformation Input by Fuel	74
2.4.3.	Transformation Input by Sector	75
2.4.4.	Transformation Output – All Fuels	76
2.4.5.	Transformation Output by Fuel	77
2.4.6.	Transformation Output by Sector	78
2.5.	Final Energy	79
2.5.1.	Available for Final Consumption	79
2.5.2.	Final Energy Consumption	80
2.5.3.	Final Non-Energy Consumption	84
2.5.4.	Primary Energy Intensity	85
2.6.	Electricity	86
2.6.1.	Installed Electricity Capacity	86
2.6.2.	Gross Electricity Generation	89
2.6.3.	Market Share of the Largest Electricity Producer	94
2.7.	Intermittent Energy	95
2.7.1.	Cumulative Capacity	95
2.7.2.	Wind Cumulative Installed Capacity	97
2.7.3.	Wind Gross Electricity Production	99
2.7.4.	Wind Capacity Factor	101
2.7.5.	Solar Collectors' Surface	102
2.7.6.	Solar Installed Capacity	103
2.7.7.	Solar Gross Electricity Production	104
2.7.8.	Solar Penetration Level	105
2.8.	CHP	106
2.8.1.	CHP Electricity	106
2.8.2.	CHP Heat	107
2.8.3.	CHP Electricity and Heat	108
2.9.	Heat	109
2.9.1.	Gross Heat Generation	109

2.10.	Transport	112
2.10.1.	Fuels Final Consumption	112
2.10.2.	Biofuels	113
2.11.	Energy Efficiency	115
2.11.1.	Energy Intensity	115
2.11.2.	Energy per Capita	116
2.11.3.	Final Electricity per Capita	117
2.11.4.	Primary Energy Efficiency	118
2.11.5.	Carbon Intensity	119
2.12.	RES Indicators	120
2.12.1.	RES Shares	120
2.13.	Energy Prices	123
2.13.1.	Prices of Transport Fuels	123
2.13.2.	Fuel Prices – Domestic Consumers	126
2.13.3.	Fuel Prices – Industrial Consumers	128

PART 3 Socio-Economic Indicators in the EU

3.1.	Classification of the Energy Sector	134
3.1.1.	Comparative Table	134
3.2.	Employment	135
3.2.1.	Total Persons Employed	135
3.2.2.	Employment Rate	136
3.2.3.	Unemployment Rate	137
3.3.	Enterprises in the Sector	138
3.3.1.	Number of Enterprises	138
3.3.2.	Turnover	142
3.3.3.	Number of Persons Declared as Employed	146
3.4.	Economy	150
3.4.1.	GDP at Current Market Prices	150
3.4.2.	GDP per Capita at Current Market Prices	151
3.4.3.	GDP at 2005 Market Prices	152
3.4.4.	GDP per Capita at 2005 Market Prices	153
3.5.	Demography	154
3.5.1.	Population	154

PART 4 Environment Indicators in the EU

4.1.	Gases Emissions	158
4.1.1.	GHGs Emissions	158
4.1.2.	CO ₂ Emissions	163
4.2.	Main Emissions Indicators	168
4.2.1.	CO ₂ per Capita	168
4.2.2.	Carbon GDP Intensity	169

PART 5 Country Profiles

5.0.	European Union 28	174
5.1.	Belgium	176
5.2.	Bulgaria	178
5.3.	Czech Republic	180
5.4.	Denmark	182
5.5.	Germany	184
5.6.	Estonia	186
5.7.	Ireland	188
5.8.	Greece	190
5.9.	Spain	192
5.10.	France	194
5.11.	Croatia	196
5.12.	Italy	198
5.13.	Cyprus	200
5.14.	Latvia	202
5.15.	Lithuania	204
5.16.	Luxembourg	206
5.17.	Hungary	208
5.18.	Malta	210
5.19.	Netherlands	212
5.20.	Austria	214
5.21.	Poland	216
5.22.	Portugal	218
5.23.	Romania	220
5.24.	Slovenia	222
5.25.	Slovakia	224
5.26.	Finland	226
5.27.	Sweden	228
5.28.	United Kingdom	230

Appendices

Appendices – Methodology	236
Appendix 1 – Country Nomenclature	236
Appendix 2 – Main Indicators – EN	237
Appendix 3 – Main Indicators – DE	238
Appendix 4 – Main Indicators – FR	239
Appendix 5 – Main Products – EN	240
Appendix 6 – Main Products – DE	241
Appendix 7 – Main Products – FR	242
Appendix 8 – Symbols and Abbreviations	243
Appendix 9 – SI Units – Prefixes	244
Appendix 10 – Conversion Factors	245
Appendix 11 – Average Calorific Values	246
Appendices – Glossary	247
Appendix 12 – Glossary	247
Appendices – Notes	258
Appendix 13 – Notes	258