



EU energy in figures



STATISTICAL
POCKETBOOK
2022

Energy

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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 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 4. Greenhouse gas emissions 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:

https://energy.ec.europa.eu/data-and-analysis/eu-energy-statistical-pocket-book-and-country-datasheets_en

Recommended sources of data:

European Commission websites:

DG Energy

Pocketbook and energy statistical datasheets:

https://energy.ec.europa.eu/data-and-analysis/eu-energy-statistical-pocket-book-and-country-datasheets_en

Energy data & analysis: https://energy.ec.europa.eu/data-and-analysis_en

Eurostat

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

DG Economic and Financial Affairs

AMECO: https://economy-finance.ec.europa.eu/economic-research-and-databases/economic-databases/macro-economic-database-ameco_en

DG Climate Action

Climate strategies, targets and progress reports:

https://ec.europa.eu/clima/eu-action/climate-strategies-targets_en

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/>

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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 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	Energy Flow - 2000	20
1.2.2	Energy Flow - 2020	21
1.2.3	Gross Inland Consumption	22
1.2.4	Energy Import Dependency	24
1.2.5	Energy Import Dependency - Net Imports	25
1.2.6	Imports by Country of Origin	26
1.3	EU Targets	27
1.3.1	Renewable Energy Targets	27
1.3.1	Renewable Energy Shares	29
1.3.2	Energy efficiency targets	30
1.3.2	Energy efficiency targets	31
1.3.3	Greenhouse gas (GHG) Emissions Milestones and 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	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 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
2.7	Solar and wind Energy	99
2.7.1	Solar and wind Energy – Cumulative Capacity	99
2.7.2	Wind Cumulative Installed Capacity	101
2.7.3	Wind Gross Electricity Production	103
2.7.4	Wind Penetration Level	104
2.7.5	Wind Capacity Factor	105
2.7.6	Solar Collectors' Surface	106
2.7.7	Solar Installed Capacity	107
2.7.8	Solar Gross Electricity Production	108
2.7.9	Solar Penetration Level	109

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
2.13.3	Fuel Prices – Industrial Consumers	135

PART 3 Socio-Economic Indicators in the EU

3.1	Classification of the Energy Sector	140
3.1.1	Comparative Table Eurostat (NACE) and UN (ISIC) 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 Market Prices	153

3.3.2 - GDP per Capita at Current Market Prices	154
3.3.3 - GDP at 2015 Market Prices	155
3.3.4 - GDP per Capita at 2015 Market Prices	156
3.4 Demography	157
3.4.1 - Population	157
3.5 Employment	158
3.5.1 - Total Persons Employed	158
3.5.2 - Employment Rate	159
3.5.3 - Unemployment Rate	160

PART 4 Environment Indicators in the EU

4.1 Gases Emissions	164
4.1.1 Greenhouse gas (GHG) Emissions	164
4.1.2 CO ₂ Emissions	169
4.2 Main Emissions Indicators	174
4.2.1 Greenhouse Gas Emissions per Capita	174
4.2.2 Greenhouse Gas to GDP Intensity	175

PART 5 Country Profiles

5.1 European Union - 27 countries (from 2020)	180
5.2 Belgium	182
5.3 Bulgaria	184
5.4 Czechia	186
5.5 Denmark	188
5.6 Germany	190
5.7 Estonia	192
5.8 Ireland	194
5.9 Greece	196
5.10 Spain	198
5.11 France	200
5.12 Croatia	202
5.13 Italy	204
5.14 Cyprus	206

5.15	Latvia	208
5.16	Lithuania	210
5.17	Luxembourg	212
5.18	Hungary	214
5.19	Malta	216
5.20	The Netherlands	218
5.21	Austria	220
5.22	Poland	222
5.23	Portugal	224
5.24	Romania	226
5.25	Slovenia	228
5.26	Slovakia	230
5.27	Finland	232
5.28	Sweden	234

Appendices

Appendices – Methodology	240
Appendix 1 - Country Nomenclature	240
Appendix 2 - Main Energy Flows in Eurostat Energy Balances- EN	241
Appendix 3 - Main Energy Products in Eurostat Energy Balances- EN	242
Appendix 4 - Symbols and Abbreviations	244
Appendix 5 - Conversion Factors	245
Appendix 6 - Average calorific values*	246
Appendix Glossary	247
Appendix 7 - Glossary	247
Appendix Notes	258
Appendix 8 - Notes	258
Notes	263

1

Overview



1

Overview

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 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	Energy Flow - 2000	20
1.2.2	Energy Flow - 2020	21
1.2.3	Gross Inland Consumption	22
1.2.4	Energy Import Dependency	24
1.2.5	Energy Import Dependency - Net Imports	25
1.2.6	Imports by Country of Origin	26
1.3	EU Targets	27
1.3.1	Renewable Energy Targets	27
1.3.1	Renewable Energy Shares	29
1.3.2	Energy efficiency targets	30
1.3.2	Energy efficiency targets	31
1.3.3	Greenhouse gas (GHG) Emissions Milestones and Targets	32

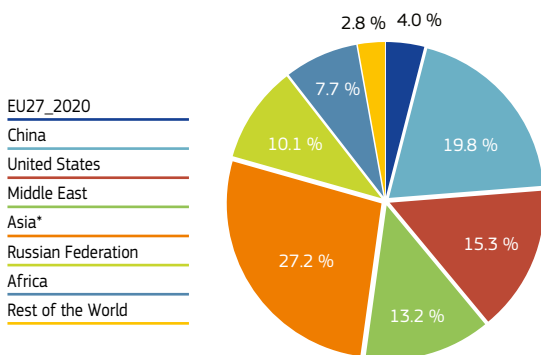
1.1 Energy in the World (Overview)

1.1.1 World Energy Production by Region

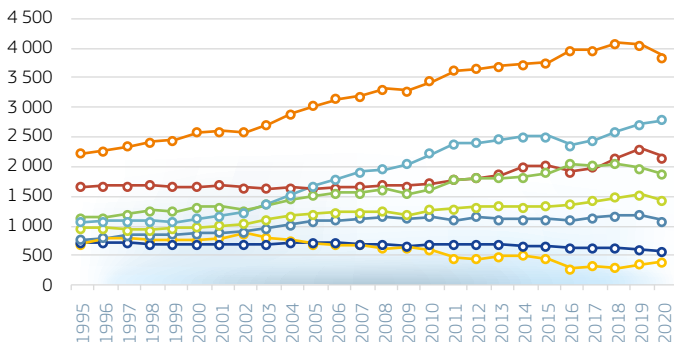
Mtoe

	2000	2005	2010	2015	2019	2020
EU27_2020	679	706	698	654	610	565
China	1124	1671	2235	2504	2720	2796
United States	1666	1630	1723	2022	2310	2160
Middle East	1328	1521	1632	1896	1979	1866
Asia*	2585	3027	3447	3765	4055	3853
Russian Federation	978	1203	1280	1334	1530	1430
Africa	882	1079	1164	1109	1186	1087
Rest of the World	764	701	601	442	359	398
World	10007	11538	12780	13726	14749	14155

Total 2020 = 14155 Mtoe



World Energy Production by Region (Mtoe)



* non OECD and OECD Asia, excluding China

Source: IEA statistics, August 2022

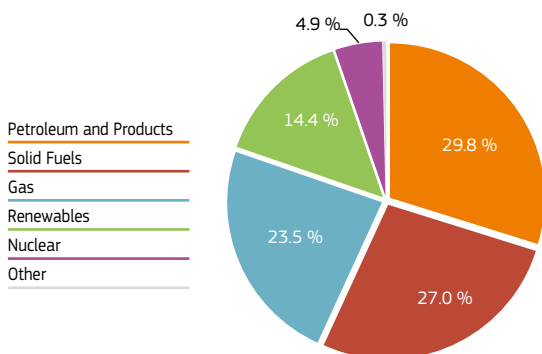
Methodology and Notes: [see appendices](#)

1.1.2 World Energy Production by Fuel

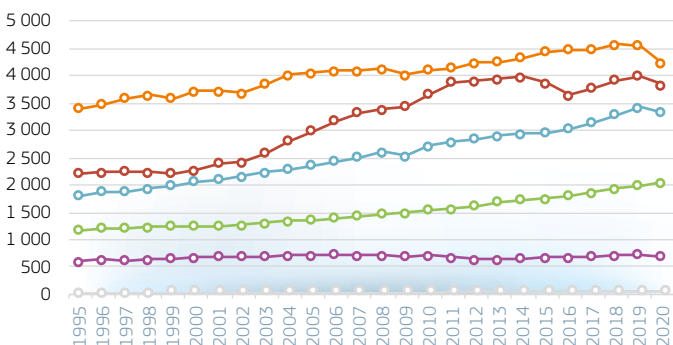
Mtoe

	2000	2005	2010	2015	2019	2020
Petroleum and Products	3711	4059	4104	4432	4552	4223
Solid Fuels	2279	2999	3665	3869	4000	3822
Gas	2060	2366	2710	2963	3426	3322
Renewables	1260	1369	1548	1750	1995	2042
Nuclear	675	722	719	670	727	697
Other	22	23	34	41	49	49
Total	10007	11 538	12 780	13 726	14 749	14 155

TOTAL 2020 = 14 155 Mtoe



Mtoe



Source: IEA statistics, August 2022

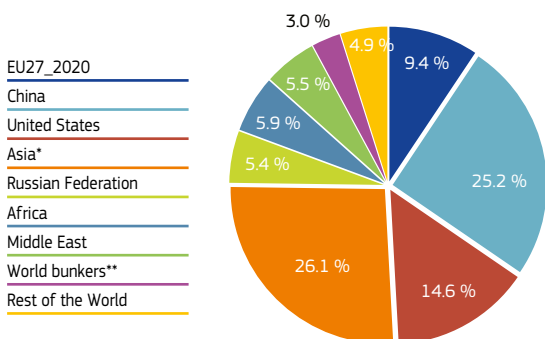
Methodology and Notes: [see appendices](#)

1.1.3 World Total Energy Supply by Region

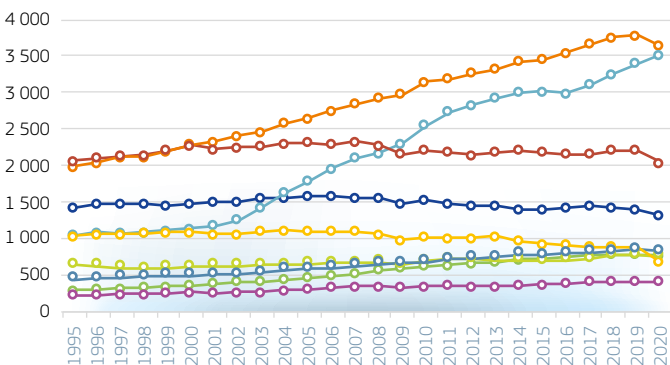
Mtoe

	2000	2005	2010	2015	2019	2020
EU27_2020	1471	1574	1527	1408	1407	1311
China	1147	1794	2550	3013	3403	3512
United States	2273	2318	2216	2186	2215	2038
Asia*	2286	2650	3144	3452	3787	3642
Russian Federation	619	652	693	692	773	758
Africa	496	590	688	778	847	830
Middle East	363	476	626	738	789	771
World bunkers**	274	317	359	381	420	417
Rest of the World	1092	1107	1031	936	879	684
World	10022	11478	12833	13586	14519	13963

TOTAL 2020 = 13 963 Mtoe



World Total Energy Supply by Region (Mtoe)



* non OECD and OECD Asia, excluding China

** International aviation and international navigation

Source: IEA statistics, August 2022

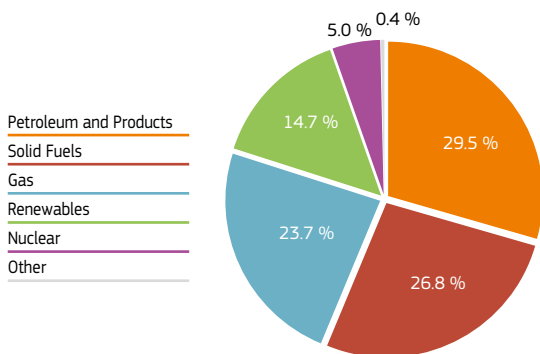
Methodology and Notes: [see appendices](#)

1.1.4 World Total Energy Supply by Fuel

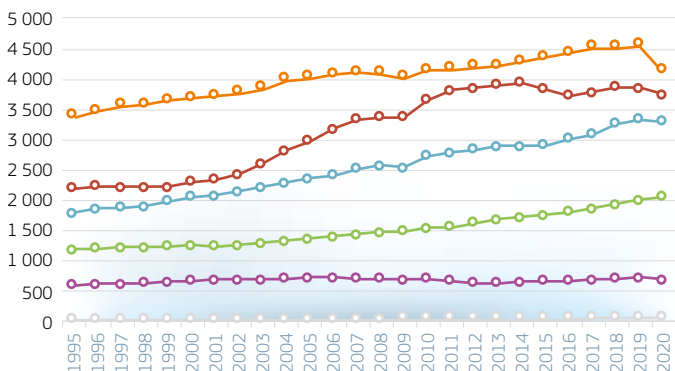
Mtoe

	2000	2005	2010	2015	2019	2020
Petroleum and Products	3681	4017	4144	4356	4539	4115
Solid Fuels	2315	2991	3654	3840	3853	3741
Gas	2067	2355	2732	2921	3347	3306
Renewables	1261	1370	1551	1756	2004	2053
*Hydro	225	252	297	335	364	373
*Geothermal	52	53	61	77	101	107
*Solar/Wind/Other	8	17	49	127	221	247
*Biofuels and Waste	997	1070	1177	1256	1365	1374
Nuclear	675	722	719	670	727	697
Other	22	23	34	43	50	50
Total	10022	11478	12833	13586	14519	13963

TOTAL 2020 = 13963 Mtoe



Mtoe



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

Source: IEA statistics, August 2022

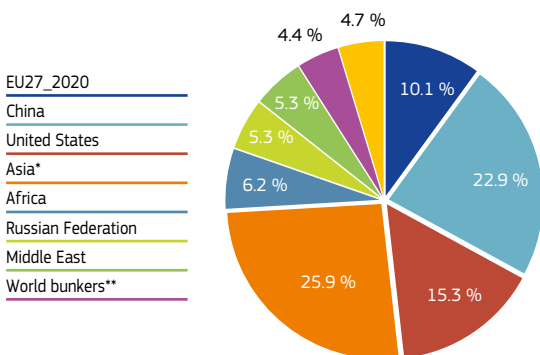
Methodology and Notes: [see appendices](#)

1.1.5 World Total Final Consumption by Region

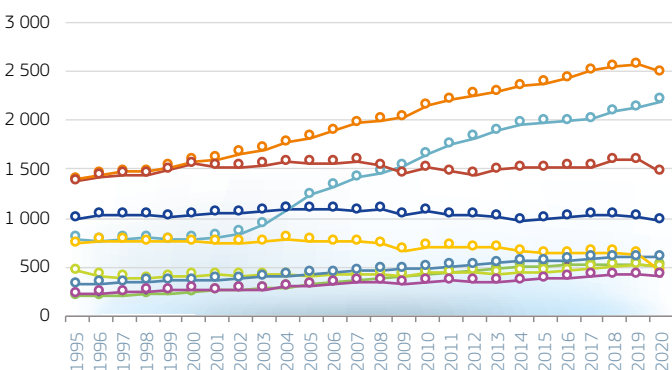
Mtoe

	2000	2005	2010	2015	2019	2020
EU27_2020	1027	1093	1070	994	1018	963
China	791	1234	1652	1979	2124	2190
United States	1546	1563	1513	1511	1588	1461
Asia*	1581	1820	2140	2367	2564	2477
Africa	365	432	494	564	605	598
Russian Federation	418	412	447	453	521	506
Middle East	249	319	436	514	532	512
World bunkers**	274	317	359	381	420	417
Rest of the World	763	769	709	645	634	449
World	7014	7959	8820	9407	10008	9573

TOTAL 2020 = 9573 Mtoe



World Total Final Consumption by Region (Mtoe)



* non OECD and OECD Asia, excluding China

** International aviation and international navigation

Source: IEA statistics, August 2022

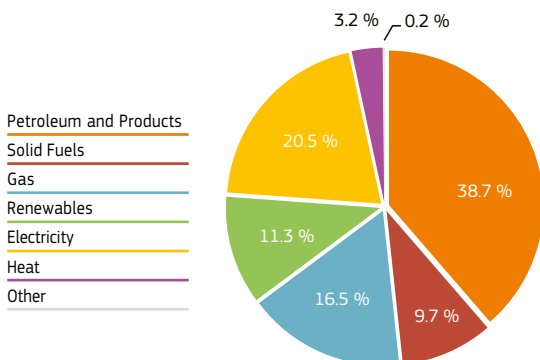
Methodology and Notes: [see appendices](#)

1.1.6 World Total Final Consumption by Fuel

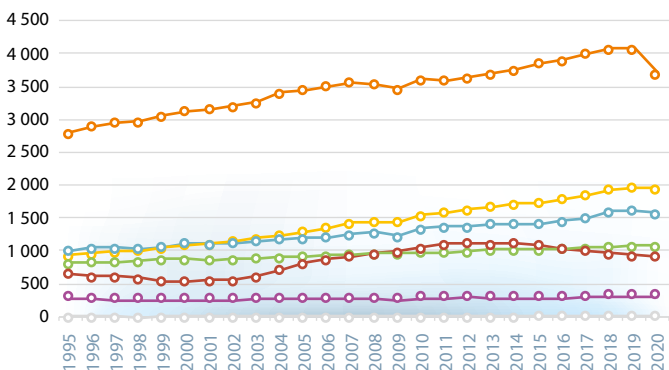
Mtoe

	2000	2005	2010	2015	2019	2020
Petroleum and Products	3126	3451	3615	3851	4084	3700
Solid Fuels	542	825	1057	1093	935	924
Gas	1119	1194	1344	1419	1623	1580
Renewables	879	920	982	1024	1082	1086
Electricity	1092	1301	1538	1736	1962	1958
Heat	248	260	275	272	306	309
Other	7	7	9	11	15	15
Total	7014	7959	8820	9407	10008	9573

TOTAL 2020 = 9573 Mtoe



World Total Final Consumption by Fuel (Mtoe)



Source: IEA statistics, August 2022

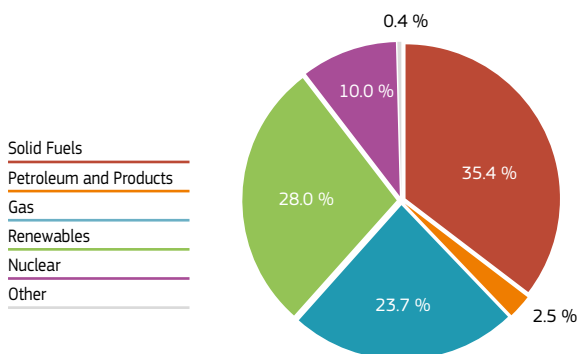
Methodology and Notes: [see appendices](#)

1.1.7 World Electricity Generation by Fuel

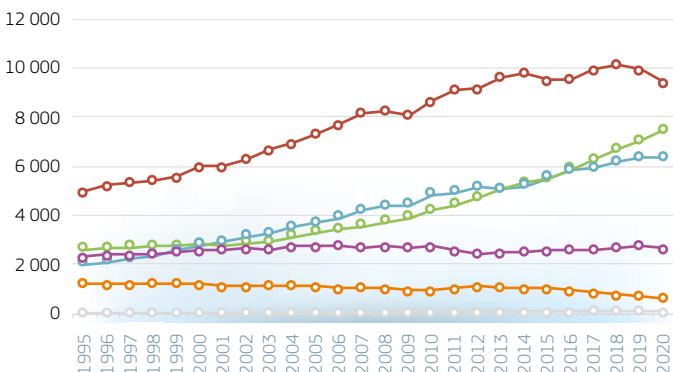
TWh

	2000	2005	2010	2015	2019	2020
Solid Fuels	5995	7326	8670	9536	9941	9452
Petroleum and Products	1188	1129	969	1021	722	668
Gas	2771	3701	4856	5550	6350	6335
Renewables	2828	3295	4201	5511	7032	7482
*Hydro	2613	2933	3449	3893	4236	4341
*Solar/Wind/Other	54	140	408	1123	2171	2467
*Biofuels and Waste	162	228	362	509	652	685
*Geothermal	52	58	68	81	92	95
Nuclear	2591	2768	2756	2570	2789	2674
Other	54	67	88	99	123	109
Total	15 428	18 285	21 539	24 287	26 958	26 721

TOTAL 2020 = 26 721 TWh



TWh



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

Source: IEA statistics, August 2022

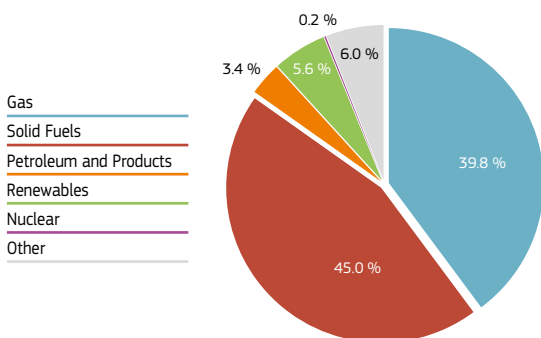
Methodology and Notes: [see appendices](#)

1.1.8 World Heat Generation by Fuel

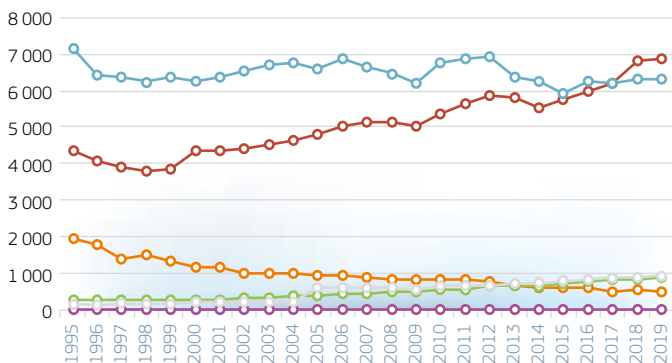
PJ

	2000	2005	2010	2015	2019	2020
Gas	6240	6617	6776	5896	6284	6237
Solid Fuels	4332	4794	5367	5774	6852	7040
Petroleum and Products	1160	970	845	593	498	536
Renewables	296	395	585	727	880	878
*Geothermal	18	24	31	41	51	49
*Solar/Wind/Other	16	396	363	395	457	457
*Biofuels and Waste	414	531	777	949	1171	1204
Nuclear	19	21	27	26	26	25
Other	207	613	658	765	932	939
Total	12254	13409	14258	13780	15472	15655

TOTAL 2020 = 15655 PJ



PJ



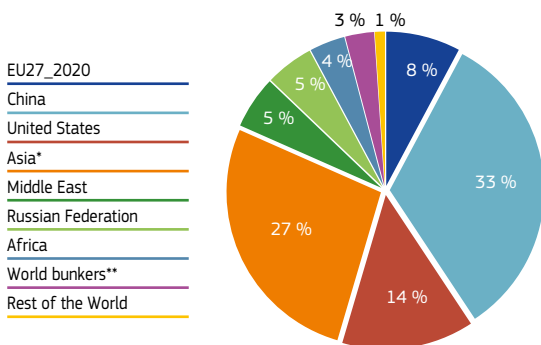
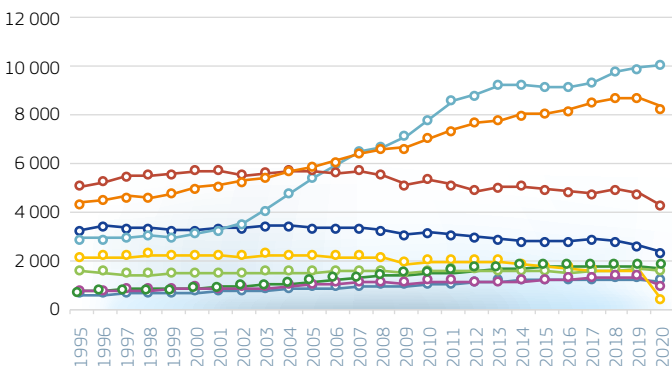
* Partial disaggregation of the Renewables group. Waste also includes non-RES wastes

Source: IEA statistics, August 2022

Methodology and Notes: [see appendices](#)

1.1.9 World CO₂ Emissions by RegionMT CO₂

	2000	2005	2010	2015	2019	2020
EU27_2020	3267	3391	3137	2827	2656	2394
China	3138	5449	7872	9177	9975	10116
United States	5730	5703	5352	4929	4744	4258
Asia*	5025	5882	7095	8090	8744	8320
Middle East	882	1146	1478	1717	1752	1696
Russian Federation	1474	1482	1529	1533	1640	1552
Africa	661	865	1021	1162	1241	1144
World bunkers**	857	993	1122	1189	1312	929
Rest of the World	2211	2172	1973	1726	1601	327
World	23245	27083	30579	32349	32265	30736

TOTAL 2020: 30736 Mt CO₂World CO₂ Emissions by Region (Mt CO₂)

* non OECD and OECD Asia, excluding China

** International aviation and international navigation

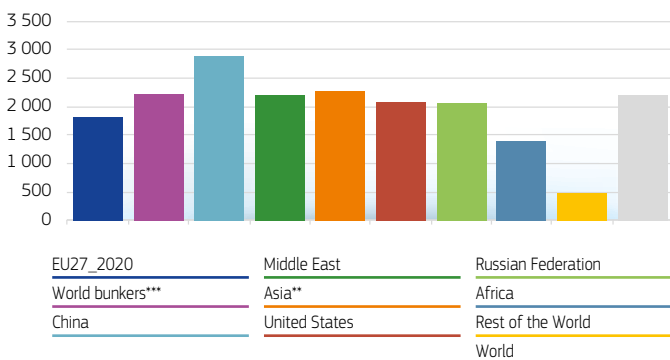
Source: IEA, May 2022, estimates of world CO₂ emissions from fuel combustionMethodology and Notes: [see appendices](#)

1.1.10 World CO₂ Intensity by Region

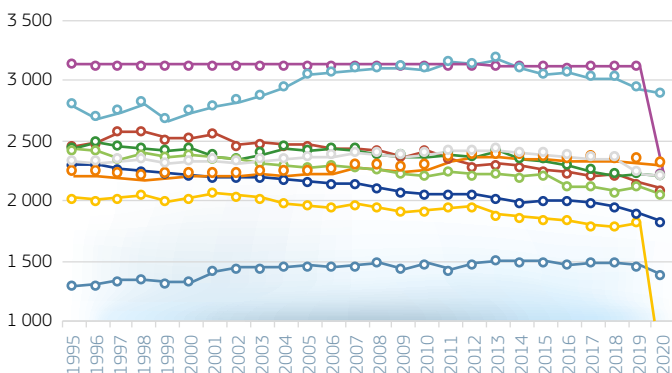
KG CO₂ PER TOE

	2000	2005	2010	2015	2019	2020
EU27_2020	2221	2155	2054	2007	1888	1827
World bunkers***	3128	3126	3128	3120	3124	2226
China	2735	3038	3087	3045	2931	2880
Middle East	2431	2408	2363	2326	2220	2199
Asia**	2198	2219	2257	2343	2309	2284
United States	2521	2461	2415	2254	2142	2089
Russian Federation	2380	2274	2206	2215	2123	2048
Africa	1331	1466	1483	1494	1464	1378
Rest of the World	2024	1962	1914	1843	1823	479
World	2319	2360	2383	2381	2222	2201

WORLD AVERAGE 2020 = 2201 Kg CO₂ per toe



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

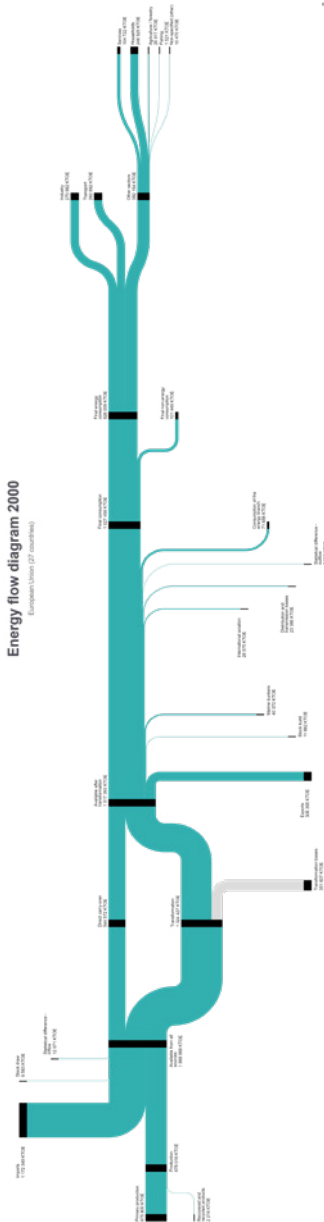
*** International aviation and international navigation

Source: IEA statistics, August 2022

Methodology and Notes: [see appendices](#)

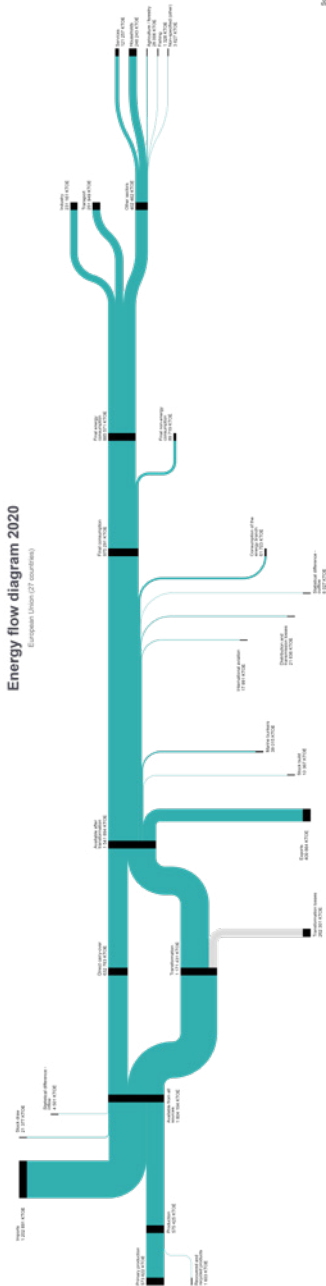
1.2 Energy in the EU (Overview)

1.2.1 Energy Flow - 2000



source: Eurostat April 2022
Methodology and Notes: [see appendices](#)

1.2.2 Energy Flow - 2020



Source

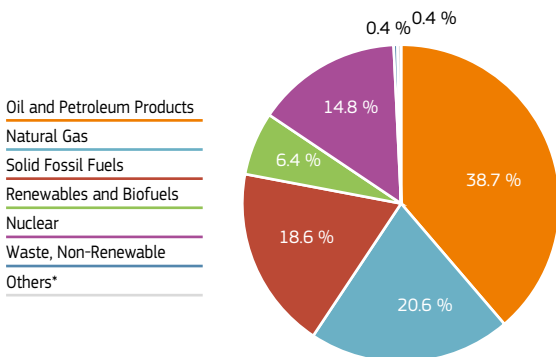
source: Eurostat April 2022
Methodology and Notes: [see appendices](#)

1.2.3 Gross Inland Consumption

ENERGY MIX (%) – PRIMARY PRODUCTS ONLY

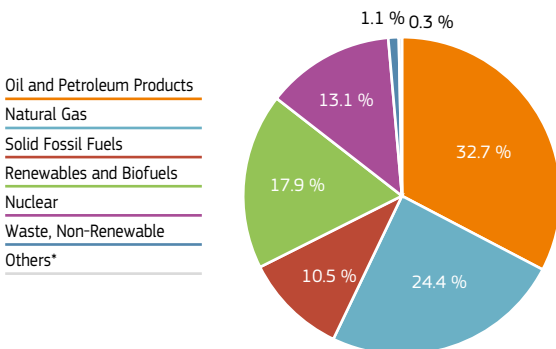
TOTAL PRIMARY PRODUCTS 2000: 1 497.5 Mtoe

(Total Primary and secondary products 2000: 1 498.3 Mtoe)



TOTAL PRIMARY PRODUCTS 2020: 1 341.2 Mtoe

(Total Primary and secondary products 2020: 1 340.1 Mtoe)



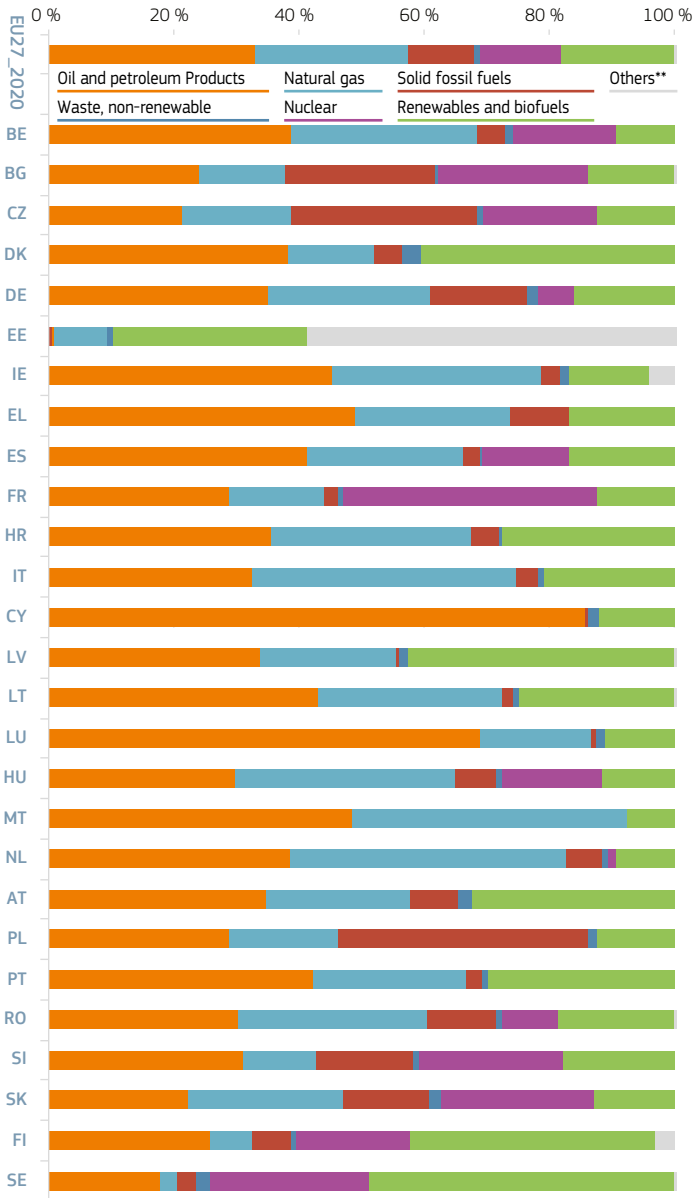
*Others = manufactured gases, peat and peat products, oil shale and oil sands

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

1.2.3 Gross Inland Consumption

ENERGY MIX* – 2020 (%)



*Primary Products Only

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

source: Eurostat April 2022

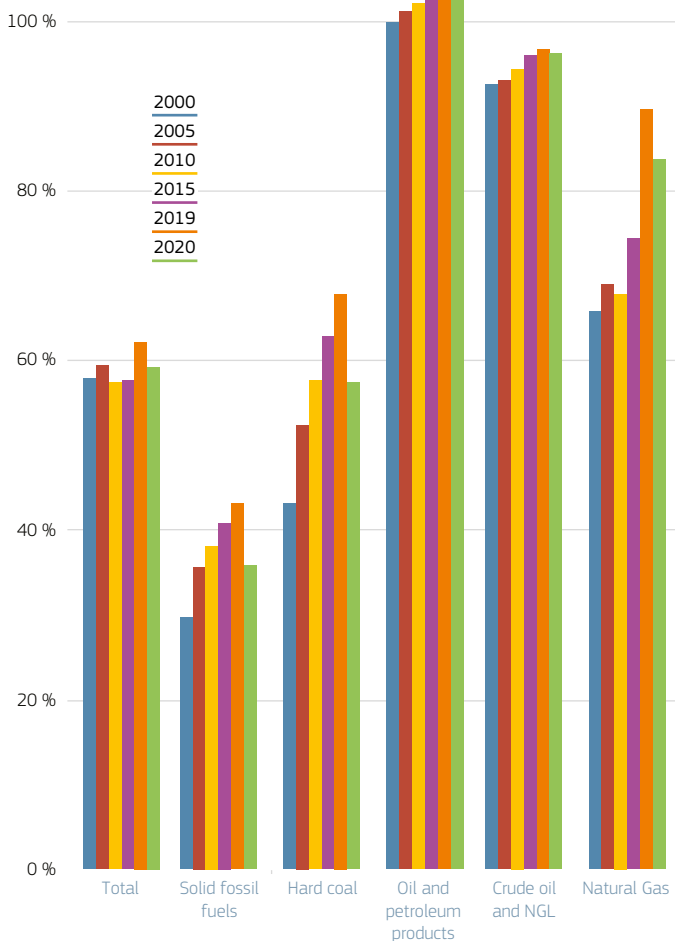
Methodology and Notes: [see appendices](#)

1.2.4 Energy Import Dependency

BY FUEL – (%)

	2000	2005	2010	2015	2019	2020
Total	57.8%	59.5%	57.4%	57.6%	62.3%	59.2%
Solid fossil fuels	29.8%	35.7%	38.2%	41.0%	43.3%	35.8%
of which Hard Coal	43.2%	52.5%	57.7%	63.0%	67.9%	57.4%
Oil and petroleum products	99.8%	101.2%	102.1%	104.7%	105.0%	105.6%
of which Crude and NGL	92.5%	93.0%	94.4%	95.9%	96.6%	96.2%
Natural Gas	65.7%	69.0%	67.8%	74.5%	89.7%	83.6%

BY FUEL 2000 - 2020 (%)

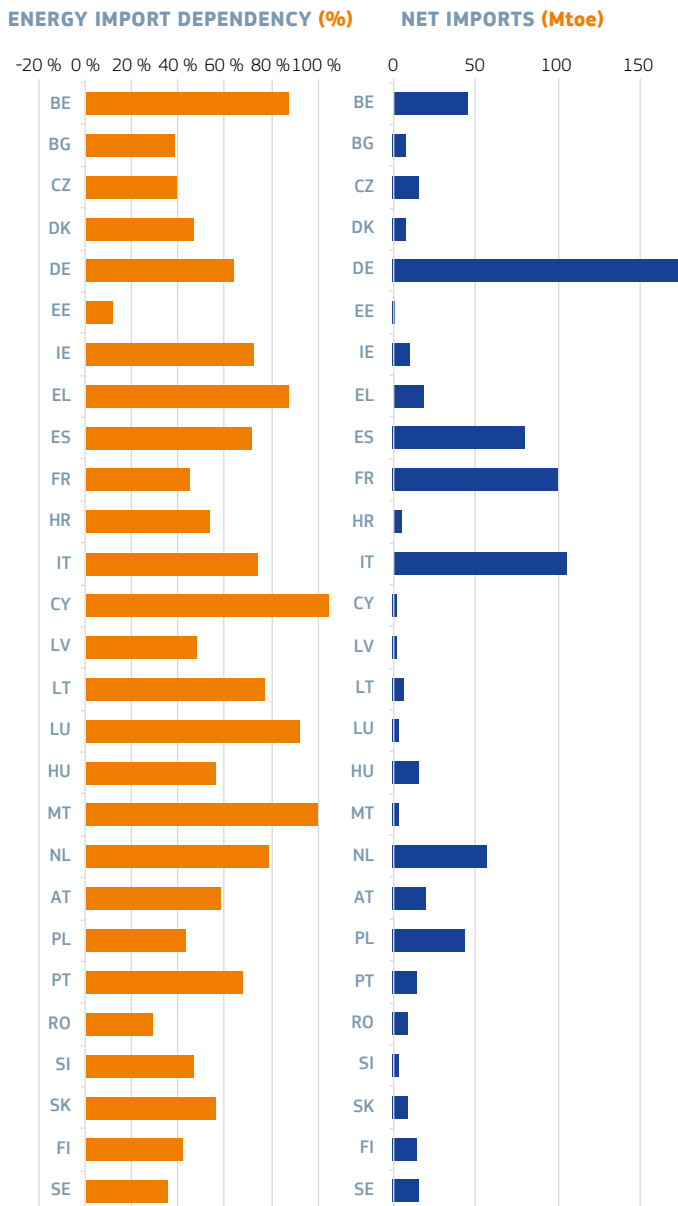


source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

1.2.5 Energy Import Dependency - Net Imports

2020

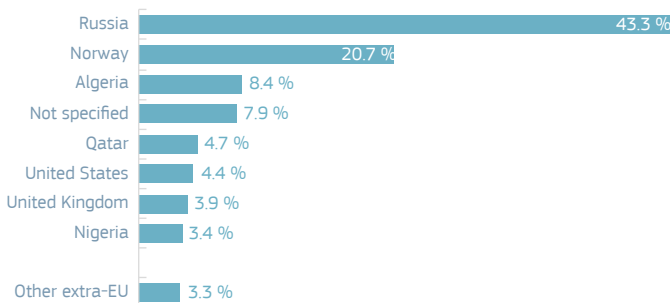


source: Eurostat April 2022
Methodology and Notes: [see appendices](#)

1.2.6 Imports by Country of Origin

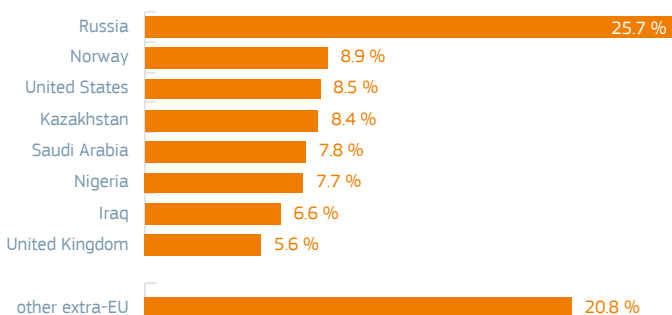
EU27_2020 IMPORTS* OF NATURAL GAS - 2020

Total extra-EU= 13680174.7 TJ-GCV (356.5 bn m³)



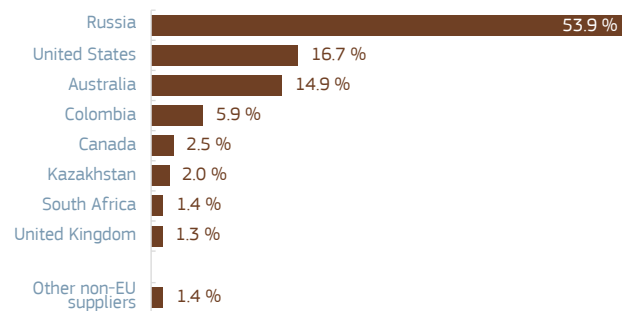
EU27_2020 IMPORTS* OF CRUDE OIL AND NGL - 2020

Total extra-EU = 442521 kton



EU27_2020 imports* of hard coal - 2020

Total Extra-EU = 79888.6 kton



* From non-EU suppliers and as a share of total non-EU imports

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

1.3 EU Targets

1.3.1 Renewable Energy Targets

% EU27_2020	2020 Renewable energy shares						
	RE transport 2020	RE electricity 2020	RE Heating and cooling 2020	Overall RE Share 2020	Indicative 2017-2018	2020 RE target	2030 RE Target
EU27_2020	10.2%	37.5%	23.1%	22.1%	n.a.	20%	32%
BE	11.0%	25.1%	8.4%	13.0%	9.2%	13.0%	
BG	9.1%	23.6%	37.2%	23.3%	13.7%	16.0%	
CZ	9.4%	14.8%	23.5%	17.3%	10.6%	13.0%	
DK	9.7%	65.3%	51.1%	31.7%	25.5%	30.0%	
DE	9.9%	44.7%	14.8%	19.3%	13.7%	18.0%	
EE	12.2%	28.3%	58.8%	30.1%	22.6%	25.0%	
IE	10.2%	39.1%	6.3%	16.2%	11.5%	16.0%	
EL	5.3%	35.9%	31.9%	21.7%	14.1%	18.0%	
ES	9.5%	42.9%	18.0%	21.2%	16.0%	20.0%	
FR	9.2%	24.8%	23.4%	19.1%	18.6%	23.0%	
HR	6.6%	53.8%	36.9%	31.0%	17.4%	20.0%	
IT	10.7%	38.1%	19.9%	20.4%	12.9%	17.0%	
CY	7.4%	12.0%	37.1%	16.9%	9.5%	13.0%	
LV	6.7%	53.4%	57.1%	42.1%	37.4%	40.0%	
LT	5.5%	20.2%	50.4%	26.8%	20.2%	23.0%	
LU	12.6%	13.9%	12.6%	12.6%	7.5%	11.0%	
HU	11.6%	11.9%	17.7%	13.9%	10.0%	13.0%	
MT	10.6%	9.5%	23.0%	10.7%	6.5%	10.0%	
NL	12.6%	26.4%	8.1%	14.0%	9.9%	14.0%	
AT	10.3%	78.2%	35.0%	36.5%	30.3%	34.0%	
PL	6.6%	16.2%	22.1%	16.1%	12.3%	15.0%	
PT	9.7%	58.0%	41.5%	34.0%	27.3%	31.0%	
RO	8.5%	43.4%	25.3%	24.5%	21.8%	24.0%	
SI	10.9%	35.1%	32.1%	25.0%	21.9%	25.0%	
SK	9.3%	23.1%	19.4%	17.3%	11.4%	14.0%	
FI	13.4%	39.6%	57.6%	43.8%	34.7%	38.0%	
SE	31.9%	74.5%	66.4%	60.1%	45.8%	49.0%	

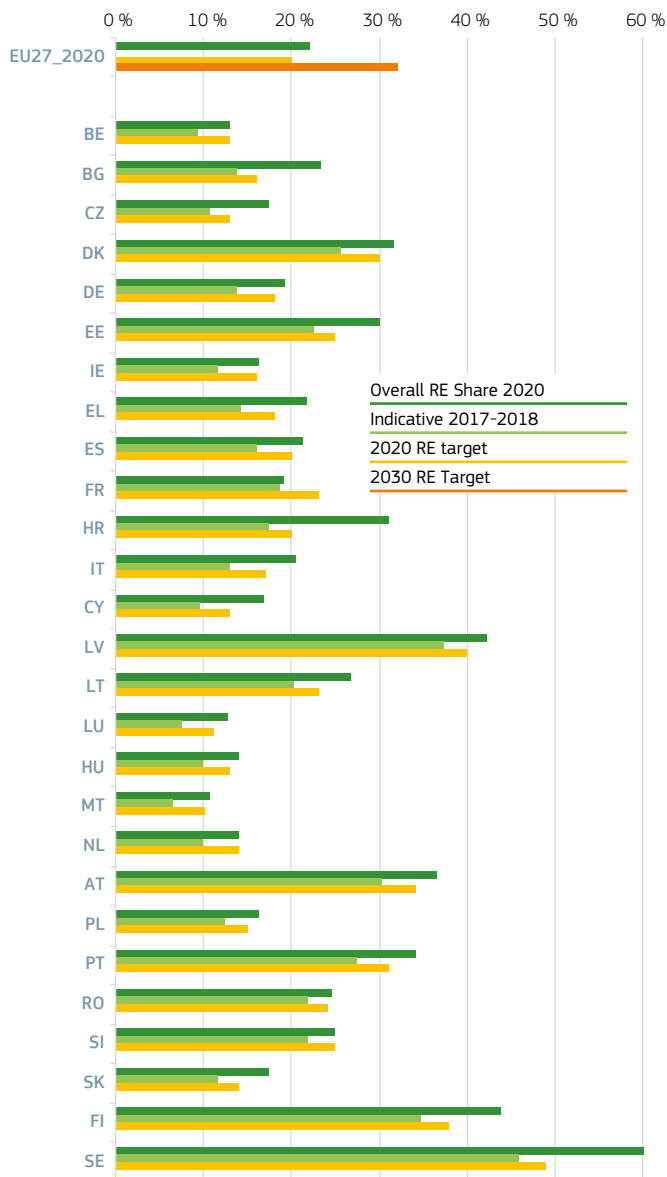
* in % of the Gross Final Energy Consumption

source: Eurostat-RES SHARES March 2022

Methodology and Notes: [see appendices](#)

1.3.1 Renewable Energy Targets

RENEWABLE ENERGY SHARES AND TARGETS* (%)



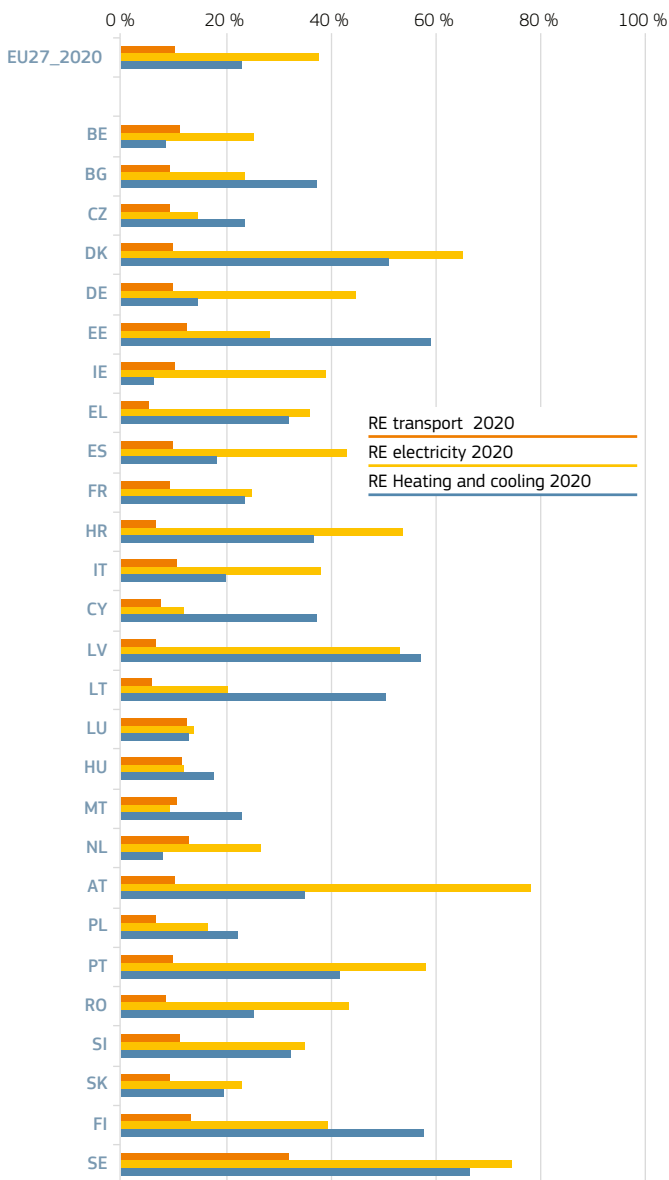
* in Gross Final Energy Consumption

source: Eurostat-RES SHARES March 2022

Methodology and Notes: [see appendices](#)

1.3.1 Renewable Energy Shares

RES SHARES IN HEATING AND COOLING, ELECTRICITY, AND TRANSPORT 2020 (%)



* in Gross Final Energy Consumption
 source: Eurostat-RES SHARES March 2022
 Methodology and Notes: [see appendices](#)

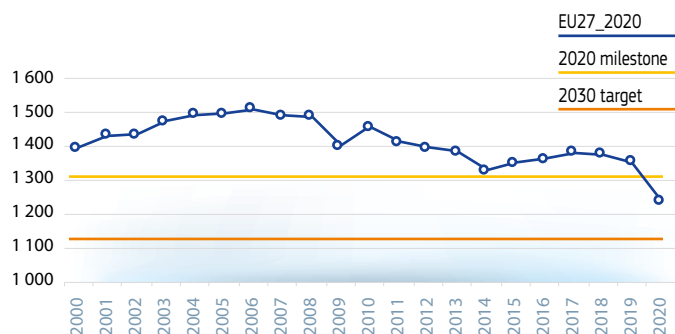
1.3.2 Energy efficiency targets

PRIMARY ENERGY CONSUMPTION 2020-2030 MILESTONES AND TARGETS (Mtoe)

	2005	2010	2015	2019	2020	2020 MILESTONE & TARGET	2030 TARGET
EU27_2020	1497.9	1457.7	1352.7	1353.8	1236.3	1312*	1128
BE	51.6	53.4	45.7	48.4	43.9		
BG	19.2	17.4	18.0	18.2	17.2		
CZ	42.5	42.5	39.4	39.8	37.5		
DK	19.4	20.0	16.8	16.8	15.3		
DE	321.6	315.2	295.9	285.2	262.3		
EE	5.3	5.8	4.8	4.7	4.3		
IE	14.9	14.7	14.0	14.7	13.4		
EL	30.3	27.2	23.4	22.3	19.2		
ES	136.0	123.0	118.2	120.6	105.0		
FR	261.0	254.6	244.4	235.2	208.4		
HR	9.1	8.9	8.0	8.2	7.8		
IT	180.8	167.3	149.1	145.9	132.3		
CY	2.5	2.7	2.3	2.5	2.2		
LV	4.5	4.6	4.3	4.6	4.3		
LT	8.0	6.2	5.8	6.3	6.2		
LU	4.8	4.6	4.1	4.5	3.9		
HU	26.3	24.6	23.3	24.6	23.9		
MT	0.9	0.9	0.8	0.9	0.7		
NL	70.1	71.7	63.9	63.5	58.4		
AT	32.7	32.9	31.7	32.3	29.7		
PL	88.0	96.6	90.1	100.2	96.9		
PT	24.9	22.7	21.6	22.1	19.5		
RO	36.1	32.9	30.7	32.1	30.9		
SI	7.2	7.0	6.3	6.5	6.1		
SK	17.4	16.7	15.2	16.0	15.2		
FI	33.6	35.4	31.2	32.1	29.9		
SE	49.0	48.3	43.8	45.8	41.7		

EU27_2020: PRIMARY ENERGY CONSUMPTION 2020-2030

(Mtoe)



*milestone for EU27_2020, based on the target for EU28

source: Eurostat April 2022

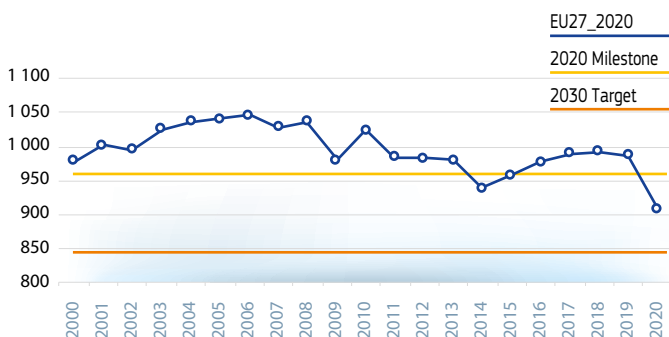
Methodology and Notes: [see appendices](#)

1.3.2 Energy efficiency targets

FINAL ENERGY CONSUMPTION 2020-2030 MILESTONES AND TARGETS (Mtoe)

	2005	2010	2015	2019	2020	2020 MILESTONE & TARGET	2030 TARGET
EU27_2020	1040.9	1024.1	958.4	986.4	907.0	959*	846
BE	36.8	38.1	35.9	35.8	33.3		
BG	10.1	8.8	9.5	9.8	9.5		
CZ	26.1	25.3	24.2	25.3	24.5		
DK	15.5	15.5	14.2	14.3	13.1		
DE	219.7	223.0	212.7	214.7	201.7		
EE	2.9	2.9	2.8	2.9	2.8		
IE	12.6	11.9	11.3	12.4	11.2		
EL	21.0	19.1	16.6	16.2	14.5		
ES	98.1	89.6	80.5	86.5	73.8		
FR	160.1	154.0	148.4	145.4	130.1		
HR	7.2	7.2	6.6	6.9	6.5		
IT	137.2	128.5	116.2	115.4	102.7		
CY	1.8	1.9	1.7	1.9	1.6		
LV	4.0	4.1	3.8	4.1	3.9		
LT	4.7	4.8	4.9	5.6	5.3		
LU	4.5	4.3	4.0	4.4	3.8		
HU	18.7	17.5	17.4	18.6	18.0		
MT	0.5	0.5	0.6	0.7	0.5		
NL	54.1	55.3	48.8	49.7	45.5		
AT	27.9	28.0	27.5	28.3	26.1		
PL	58.5	66.3	62.3	73.7	71.1		
PT	19.0	18.1	16.0	17.1	15.0		
RO	24.6	22.5	21.8	23.9	23.5		
SI	5.1	5.1	4.7	4.9	4.4		
SK	11.6	11.5	10.1	11.2	10.4		
FI	25.2	26.2	24.2	25.4	23.3		
SE	33.2	34.0	31.8	31.5	30.9		

EU27_2020: FINAL ENERGY CONSUMPTION 2020-2030 (Mtoe)



*milestone for EU27_2020, based on the target for EU28

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

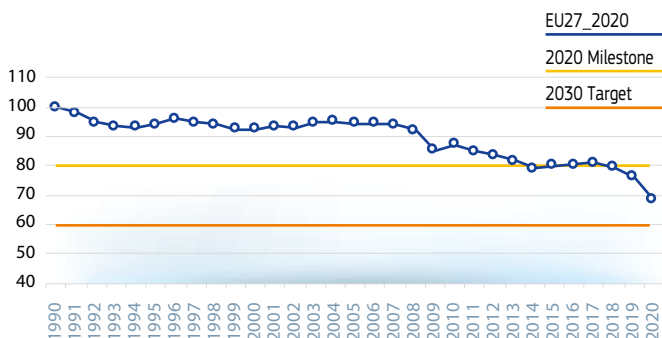
1.3.3 Greenhouse gas (GHG) Emissions Milestones and Targets

GHG EMISSIONS MILESTONES AND TARGETS

INDEX 100=1990

	1990	2000	2005	2010	2020	2020 GHG MILESTONE & TARGET	2030 GHG TARGET
EU27_2020	100	92.4	94.5	87.3	68.4	80*	60
BE	100	103.2	100.2	92.6	74.0		
BG	100	57.7	63.2	60.4	50.1		
CZ	100	75.9	75.3	70.9	57.0		
DK	100	101.3	95.5	90.9	58.6		
DE	100	84.2	80.5	76.6	59.2		
EE	100	43.6	47.9	52.8	28.9		
IE	100	126.7	131.2	115.9	106.2		
EL	100	121.8	131.2	114.3	71.9		
ES	100	134.9	154.0	125.8	95.4		
FR	100	101.9	102.6	94.7	72.5		
HR	100	80.5	93.8	88.4	74.9		
IT	100	107.8	114.4	100.5	73.5		
CY	100	144.9	159.6	163.5	146.0		
LV	100	38.9	42.6	46.6	40.7		
LT	100	40.4	47.4	43.3	42.2		
LU	100	81.0	109.0	102.6	81.6		
HU	100	79.4	81.3	70.0	66.2		
MT	100	111.4	116.1	115.8	83.0		
NL	100	101.3	99.4	98.7	76.0		
AT	100	103.1	118.5	108.7	94.1		
PL	100	83.4	85.2	87.0	79.2		
PT	100	139.4	146.8	119.3	98.6		
RO	100	55.7	58.8	49.2	43.9		
SI	100	100.0	110.1	105.7	85.1		
SK	100	66.4	69.0	62.3	50.5		
FI	100	98.8	98.7	107.1	67.4		
SE	100	96.6	94.5	91.8	64.9		

EU27_2020: GHG EMISSIONS (index100=1990) 1990 - 2020



*milestone for EU27_2020, based on the target for EU28

Source: EEA, June 2022, Eurostat 2022

source: Eurostat April 2022

2

Energy in the EU



2

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	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 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
		35

2.7	Solar and wind Energy	99
2.7.1	Solar and wind Energy – Cumulative Capacity	99
2.7.2	Wind Cumulative Installed Capacity	101
2.7.3	Wind Gross Electricity Production	103
2.7.4	Wind Penetration Level	104
2.7.5	Wind Capacity Factor	105
2.7.6	Solar Collectors' Surface	106
2.7.7	Solar Installed Capacity	107
2.7.8	Solar Gross Electricity Production	108
2.7.9	Solar Penetration Level	109
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
2.13.3	Fuel Prices – Industrial Consumers	135

2.1 Energy Supply

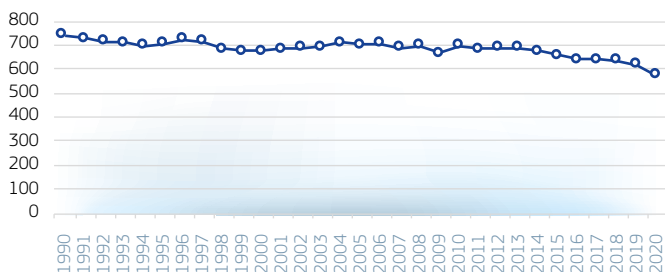
2.1.1 Production*

ALL FUELS

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	676.0	703.3	695.5	657.1	617.8	573.7
Index2000	100%	104%	103%	97%	91%	85%
BE	13.40	13.83	15.03	10.30	15.19	13.33
BG	9.86	10.64	10.45	12.03	11.69	10.83
CZ	30.81	33.23	31.86	28.55	26.60	23.50
DK	27.82	31.34	23.36	16.16	12.50	9.53
DE	135.24	137.78	131.67	120.55	105.28	97.80
EE	3.38	4.04	5.05	4.89	4.97	4.38
IE	2.16	1.70	1.83	1.96	4.14	3.54
EL	10.04	10.38	9.49	8.53	6.37	4.95
ES	31.32	30.00	34.55	34.12	34.67	35.42
FR	129.26	135.91	136.87	140.78	134.08	122.62
HR	4.26	4.76	5.17	4.41	3.90	3.73
IT	28.17	30.21	32.94	36.10	36.91	37.67
CY	0.04	0.05	0.09	0.13	0.21	0.22
LV	1.41	1.86	1.98	2.34	2.83	2.71
LT	3.49	4.15	1.56	1.86	2.04	2.03
LU	0.06	0.11	0.12	0.15	0.23	0.30
HU	11.61	10.86	11.71	11.10	10.79	10.59
MT	0.00	0.00	0.00	0.02	0.04	0.04
NL	58.45	62.45	71.12	48.11	33.12	27.43
AT	9.80	9.89	12.12	12.23	12.41	12.39
PL	78.63	77.93	66.83	67.76	62.14	57.98
PT	3.85	3.61	5.80	5.91	6.55	6.80
RO	28.53	27.91	27.37	26.37	24.53	22.36
SI	3.20	3.73	3.69	3.32	3.38	3.51
SK	6.28	6.44	6.01	6.39	6.94	6.75
FI	14.91	16.69	17.08	17.21	19.27	18.41
SE	30.01	33.81	31.76	35.82	37.02	34.87

PRODUCTION – ALL FUELS – 1990-2020

EU27_2020



* Primary production, recycled and recovered products

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.1.1 Production*

BY FUEL

Mtoe	2020						
	Nuclear	Solid fossil fuels	Renewables and biofuels	Natural gas	Oil and petroleum products	Wastes, Non-Renewable	Peat, oil shale and oil sands
EU27_2020	175.2	83.6	234.2	41.2	21.3	13.8	3.3
Share (%)	30.5%	14.6%	40.8%	7.2%	3.7%	2.4%	0.6%
BE	8.37	0.00	3.99	0.00	0.00	0.65	0.00
BG	4.33	3.73	2.58	0.05	0.00	0.07	0.01
CZ	7.50	10.17	5.18	0.16	0.10	0.37	0.00
DK	0.00	0.00	4.34	1.19	3.62	0.38	0.00
DE	16.58	23.39	46.51	4.03	3.11	4.19	0.00
EE	0.00	0.00	1.84	0.00	0.00	0.03	2.51
IE	0.00	0.00	1.61	1.65	0.00	0.15	0.13
EL	0.00	1.63	3.21	0.01	0.09	0.01	0.00
ES	15.17	0.00	19.64	0.04	0.03	0.54	0.00
FR	92.21	0.00	27.96	0.02	0.80	1.63	0.00
HR	0.00	0.00	2.33	0.71	0.66	0.04	0.00
IT	0.00	0.00	27.34	3.29	5.86	1.19	0.00
CY	0.00	0.00	0.21	0.00	0.00	0.01	0.00
LV	0.00	0.00	2.69	0.00	0.00	0.02	0.00
LT	0.00	0.00	1.70	0.00	0.03	0.06	0.00
LU	0.00	0.00	0.26	0.00	0.00	0.04	0.00
HU	4.05	0.93	3.10	1.32	1.03	0.15	0.00
MT	0.00	0.00	0.04	0.00	0.00	0.00	0.00
NL	0.96	0.00	7.13	17.26	1.07	0.71	0.00
AT	0.00	0.00	10.51	0.63	0.57	0.67	0.00
PL	0.00	40.03	12.52	3.40	0.93	1.07	0.00
PT	0.00	0.00	6.66	0.00	0.00	0.14	0.00
RO	2.89	2.59	5.80	7.39	3.41	0.28	0.00
SI	1.50	0.87	1.08	0.00	0.00	0.06	0.00
SK	4.04	0.24	2.18	0.05	0.00	0.23	0.00
FI	5.55	0.00	11.86	0.00	0.00	0.29	0.58
SE	12.03	0.00	21.91	0.00	0.00	0.88	0.06

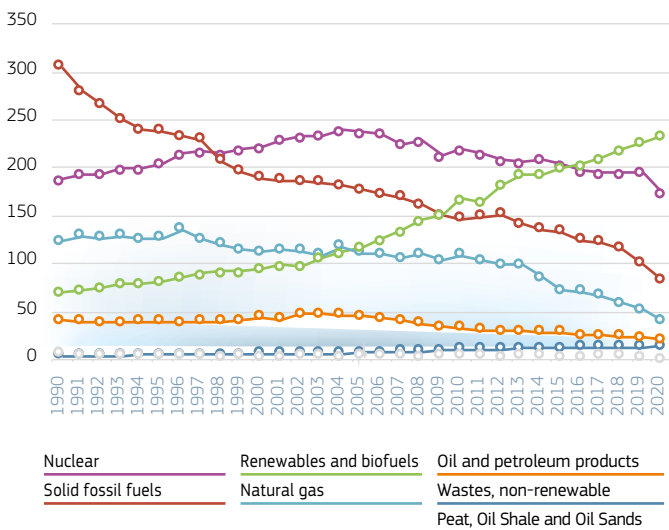
* Primary production. recycled and recovered products

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

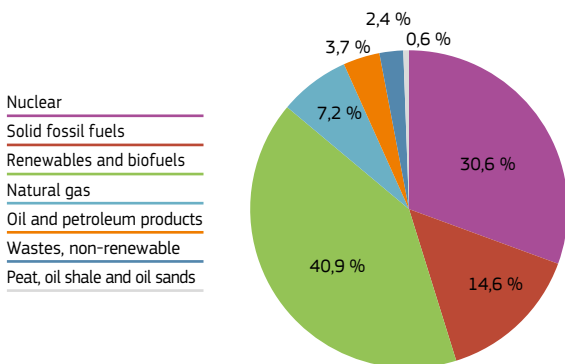
2.1.1 Production*

BY FUEL – EU27_2020 – 1990-2020 (Mtoe)



PRODUCTION* EU27_2020 IN 2020 (% TOTAL)

Total = 573.7 Mtoe



* Primary production. recycled and recovered products

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

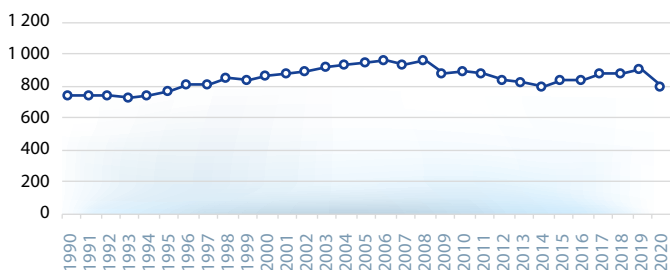
2.1.2 Net Imports

ALL FUELS

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	865.95	954.57	895.46	834.48	907.61	792.97
Index2000	100%	110%	103%	96%	105%	92%
BE	50.63	53.46	53.64	50.07	49.88	45.13
BG	8.68	9.56	7.23	6.84	7.21	6.79
CZ	9.37	12.68	11.54	13.49	17.53	15.64
DK	-7.47	-10.42	-3.37	2.35	6.97	7.38
DE	204.85	211.96	204.59	199.14	207.54	182.24
EE	1.64	1.51	0.90	0.57	0.24	0.50
IE	12.41	13.96	13.30	12.79	10.39	9.89
EL	21.75	23.14	21.30	18.38	19.32	17.97
ES	99.86	124.25	106.68	94.85	100.56	80.23
FR	132.66	144.61	132.38	120.23	120.34	99.90
HR	4.10	5.17	4.43	4.15	4.95	4.46
IT	152.44	159.77	148.48	121.42	122.49	105.80
CY	2.58	2.86	2.96	2.47	2.69	2.38
LV	2.36	3.10	2.22	2.37	2.17	2.08
LT	4.30	5.05	5.71	5.48	6.01	5.85
LU	3.64	4.68	4.51	4.01	4.32	3.67
HU	13.87	17.75	15.14	13.58	18.62	14.81
MT	1.47	1.59	2.36	2.23	3.08	2.88
NL	34.99	37.53	28.28	43.68	56.26	57.05
AT	19.17	24.69	21.88	20.37	24.91	18.80
PL	9.60	16.49	32.14	28.67	48.11	44.16
PT	22.21	24.81	18.69	18.49	18.35	14.41
RO	8.04	10.63	7.49	5.33	10.07	9.10
SI	3.40	3.85	3.58	3.24	3.60	2.95
SK	11.54	12.34	11.41	9.78	11.88	9.26
FI	18.55	19.25	18.08	15.80	14.55	13.63
SE	19.29	20.31	19.91	14.69	15.56	16.01

NET IMPORTS – ALL FUELS – 1990-2020

EU27_2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

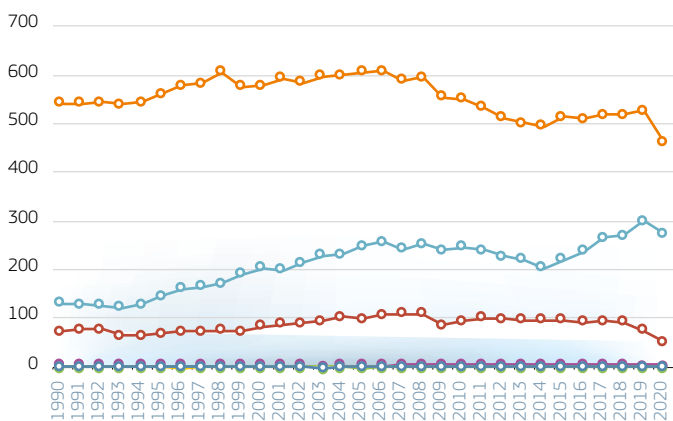
2.1.2 Net Imports

BY FUEL

Mtoe	2020					
	Net Imports	Solid fossil fuels	Oil and petroleum products	Natural gas	Renewables and biofuels	Electricity
EU27_2020	793.0	50.3	461.5	273.5	6.1	1.2
Share (%)	100%	6.3%	58.2%	34.5%	0.8%	0.2%
BE	45.13	2.41	26.75	15.05	0.94	-0.03
BG	6.79	0.40	4.29	2.43	-0.03	-0.29
CZ	15.64	1.58	8.72	6.26	-0.04	-0.87
DK	7.38	0.53	3.50	0.79	1.89	0.59
DE	182.24	19.68	97.30	66.47	0.43	-1.64
EE	0.50	-0.01	0.33	0.37	-0.50	0.31
IE	9.89	0.27	6.58	2.90	0.16	-0.01
EL	17.97	0.19	11.91	4.96	0.15	0.76
ES	80.23	1.70	51.71	27.23	-0.70	0.28
FR	99.90	5.10	64.97	33.05	0.65	-3.87
HR	4.46	0.38	2.07	1.74	-0.13	0.40
IT	105.80	4.74	42.01	54.12	2.16	2.77
CY	2.38	0.01	2.27	0.00	0.07	0.00
LV	2.08	0.02	1.72	0.91	-0.75	0.14
LT	5.85	0.12	3.15	1.95	-0.05	0.68
LU	3.67	0.04	2.39	0.62	0.14	0.47
HU	14.81	0.74	6.51	6.63	-0.13	1.00
MT	2.88	0.00	2.52	0.31	0.02	0.04
NL	57.05	3.78	39.38	14.21	-0.16	-0.23
AT	18.80	2.42	10.83	5.33	0.02	0.19
PL	44.16	0.14	28.80	13.65	0.43	1.14
PT	14.41	-0.04	9.40	5.15	-0.28	0.13
RO	9.10	0.77	6.26	1.61	0.20	0.24
SI	2.95	0.18	2.12	0.73	0.10	-0.17
SK	9.26	1.99	3.67	3.60	-0.03	0.03
FI	13.63	1.70	8.35	2.12	0.16	1.29
SE	16.01	1.46	13.96	1.27	1.36	-2.15

2.1.2 Net Imports

BY FUEL – EU27_2020 – 1990-2020 (Mtoe)



Solid fossil fuels

Natural gas

Electricity

Oil and petroleum products

Renewables and biofuels

Heat

Waste,
Non-Renewable

BY FUEL – EU27_2020 – 2020

Total = 793 Mtoe

Solid fossil fuels

Oil and petroleum products

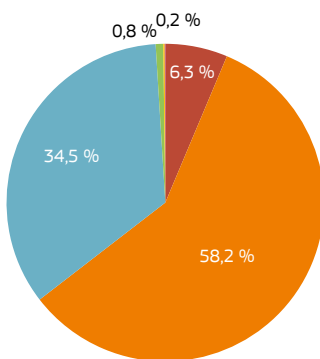
Natural gas

Renewables and biofuels

Electricity

Heat

Waste, non-renewable



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

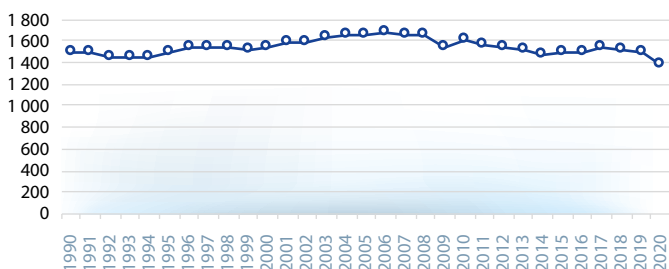
2.1.3 Gross Available Energy

ALL FUELS

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	1 538.64	1 651.09	1 605.84	1 488.33	1 501.06	1 379.15
Index2000	100%	107%	104%	97%	98%	90%
BE	64.78	66.91	68.28	59.51	64.28	57.82
BG	18.70	20.19	18.01	18.77	18.92	17.92
CZ	41.29	45.53	45.47	42.05	42.94	40.21
DK	20.79	20.59	21.06	18.02	18.02	16.44
DE	344.63	348.97	341.02	320.52	309.51	286.05
EE	4.81	5.61	6.14	5.14	4.98	4.78
IE	14.52	15.57	15.20	14.40	15.12	13.87
EL	31.50	33.93	31.06	25.87	26.07	22.08
ES	130.04	152.39	138.54	130.40	134.02	118.17
FR	258.87	279.83	272.13	261.75	253.06	224.69
HR	8.46	9.84	9.48	8.51	8.81	8.33
IT	176.19	191.69	179.82	157.63	158.09	144.03
CY	2.61	2.84	2.95	2.54	2.90	2.56
LV	3.87	4.85	4.88	4.63	4.94	4.57
LT	7.44	9.12	7.22	7.26	8.00	7.81
LU	3.66	4.80	4.64	4.18	4.54	3.96
HU	25.23	28.51	26.59	25.20	26.71	26.15
MT	1.47	1.59	2.39	2.29	3.16	2.95
NL	91.43	99.32	100.01	89.05	87.49	83.81
AT	29.24	34.40	34.85	33.74	34.78	32.23
PL	89.50	92.91	101.82	96.06	106.35	103.28
PT	26.05	28.02	24.84	24.23	24.85	22.07
RO	36.76	38.69	35.02	31.92	33.24	32.25
SI	6.56	7.58	7.27	6.56	6.91	6.44
SK	17.73	18.70	17.71	16.26	17.02	16.45
FI	33.44	35.35	37.00	32.96	34.55	32.43
SE	49.07	53.35	52.42	48.87	51.79	47.79

GROSS AVAILABLE ENERGY – ALL FUELS – 1990-2020 (Mtoe)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

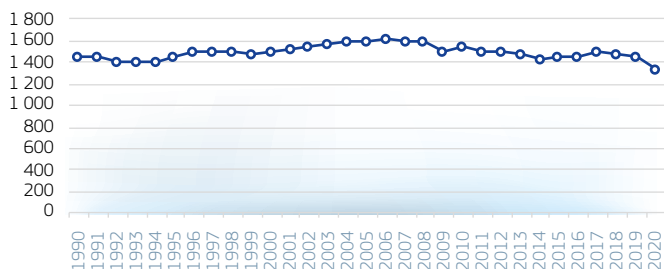
2.1.4 Gross Inland Consumption

ALL FUELS

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	1 498.27	1 603.89	1 559.13	1 448.02	1 457.95	1 340.14
Index2000	100%	107%	104%	97%	97%	89%
BE	59.44	59.28	60.69	53.68	56.08	51.44
BG	18.63	20.08	17.92	18.68	18.85	17.84
CZ	41.29	45.53	45.47	42.05	42.94	40.21
DK	19.50	19.82	20.37	17.25	17.28	15.89
DE	342.43	346.48	338.25	318.09	308.15	284.72
EE	4.71	5.50	5.92	4.85	4.80	4.49
IE	14.37	15.47	15.06	14.24	14.98	13.72
EL	27.90	31.06	28.35	24.09	23.55	20.45
ES	124.02	144.47	130.12	122.91	126.83	111.79
FR	256.05	277.27	269.84	260.02	251.36	223.72
HR	8.44	9.82	9.47	8.50	8.79	8.31
IT	174.54	189.45	176.84	155.73	155.43	141.60
CY	2.42	2.55	2.76	2.30	2.63	2.29
LV	3.86	4.59	4.63	4.38	4.65	4.36
LT	7.35	8.98	7.08	7.18	7.80	7.63
LU	3.66	4.80	4.64	4.18	4.54	3.96
HU	25.23	28.51	26.59	25.20	26.71	26.15
MT	0.81	0.94	0.94	0.76	0.90	0.76
NL	78.27	83.70	86.15	76.37	76.06	71.93
AT	29.22	34.38	34.83	33.72	34.76	32.21
PL	89.22	92.58	101.60	95.87	106.07	102.98
PT	25.38	27.44	24.38	23.59	23.89	21.39
RO	36.76	38.69	35.01	31.87	33.21	32.21
SI	6.56	7.56	7.25	6.50	6.72	6.32
SK	17.73	18.70	17.71	16.26	17.02	16.45
FI	32.76	34.84	36.79	32.66	34.22	32.12
SE	47.71	51.41	50.46	47.04	49.72	45.21

GROSS INLAND CONSUMPTION – ALL FUELS –
1990-2020

EU27_2020



source: Eurostat April 2022

Methodology and Notes: see appendices

2.1.4 Gross Inland Consumption

BY FUEL

Mtoe	2020							
	Oil and petroleum products	Natural gas	Solid fossil fuels	Renewables and biofuels	Nuclear	Waste, non-renewable	Electricity	Others*
EU27_2020	437.2	326.9	140.3	239.7	175.2	14.3	1.2	4.2
Share - %	32.6%	24.4%	10.5%	17.9%	13.1%	1.1%	0.1%	0.3%
BE	19.7	15.2	2.4	4.9	8.4	0.6	0.0	0.0
BG	4.3	2.5	4.3	2.6	4.3	0.1	-0.3	0.0
CZ	8.6	7.3	12.2	5.1	7.5	0.4	-0.9	0.0
DK	5.8	2.1	0.7	6.2	0.0	0.4	0.6	0.0
DE	99.5	74.6	44.6	46.9	16.6	4.2	-1.6	0.0
EE	0.0	0.3	0.0	1.3	0.0	0.0	0.3	2.5
IE	6.2	4.6	0.4	1.8	0.0	0.1	0.0	0.6
EL	9.6	4.9	1.8	3.3	0.0	0.0	0.8	0.0
ES	45.7	27.9	3.1	19.1	15.2	0.5	0.3	0.0
FR	65.0	34.9	5.3	28.6	92.2	1.6	-3.9	0.0
HR	2.8	2.5	0.4	2.2	0.0	0.0	0.4	0.0
IT	44.9	58.3	5.1	29.3	0.0	1.2	2.8	0.0
CY	2.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
LV	1.4	0.9	0.0	1.8	0.0	0.1	0.1	0.0
LT	2.9	2.0	0.1	1.7	0.0	0.1	0.7	0.0
LU	2.4	0.6	0.0	0.4	0.0	0.0	0.5	0.0
HU	7.5	8.8	1.7	3.0	4.1	0.2	1.0	0.0
MT	0.4	0.3	0.0	0.1	0.0	0.0	0.0	0.0
NL	27.8	31.4	4.1	6.8	1.0	0.8	-0.2	0.0
AT	11.1	7.3	2.5	10.5	0.0	0.7	0.2	0.0
PL	29.4	17.4	40.9	13.0	0.0	1.1	1.1	0.0
PT	8.9	5.2	0.6	6.4	0.0	0.2	0.1	0.0
RO	9.6	9.7	3.5	6.0	2.9	0.3	0.2	0.0
SI	2.0	0.7	1.0	1.2	1.5	0.1	-0.2	0.0
SK	3.6	4.1	2.3	2.1	4.0	0.2	0.0	0.0
FI	7.8	2.1	1.8	12.0	5.5	0.3	1.3	1.0
SE	8.4	1.3	1.5	23.2	12.0	1.0	-2.1	0.1

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

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.1.4 Gross Inland Consumption

RENEWABLES AND BIOFUELS

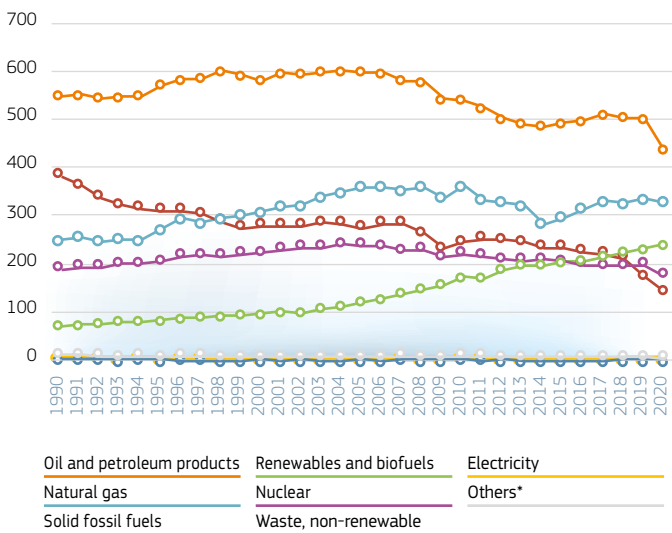
Mtoe	2020								
	Renewables and biofuels	Hydro	Wind	Solar photovoltaic	Solar thermal	Tide, Wave and Ocean	Biofuels and renewable waste	Geothermal	Ambient heat (heat pumps)
EU27_2020	239.7	29.8	34.2	12.0	4.5	0.0	139.3	6.9	13.1
Share (%)	100.0%	12.4%	14.3%	5.0%	1.9%	0.0%	58.1%	2.9%	5.5%
BE	4.93	0.02	1.10	0.44	0.03	0.00	3.21	0.00	0.13
BG	2.55	0.24	0.13	0.13	0.03	0.00	1.88	0.04	0.11
CZ	5.12	0.18	0.06	0.20	0.02	0.00	4.43	0.00	0.23
DK	6.22	0.00	1.40	0.10	0.08	0.00	4.29	0.00	0.34
DE	46.94	1.58	11.36	4.18	0.75	0.00	27.33	0.36	1.38
EE	1.31	0.00	0.07	0.01	0.00	0.00	1.22	0.00	0.00
IE	1.77	0.08	0.99	0.01	0.01	0.00	0.62	0.00	0.06
EL	3.35	0.29	0.80	0.38	0.29	0.00	1.19	0.01	0.39
ES	19.09	2.62	4.85	1.35	2.29	0.00	7.02	0.00	0.96
FR	28.60	5.34	3.42	1.15	0.19	0.04	15.21	0.48	2.77
HR	2.20	0.49	0.15	0.01	0.02	0.00	1.46	0.06	0.01
IT	29.34	4.09	1.61	2.14	0.24	0.00	13.44	5.34	2.48
CY	0.28	0.00	0.02	0.03	0.07	0.00	0.11	0.00	0.05
LV	1.81	0.22	0.02	0.00	0.00	0.00	1.57	0.00	0.00
LT	1.66	0.03	0.13	0.01	0.00	0.00	1.46	0.00	0.03
LU	0.40	0.01	0.03	0.01	0.00	0.00	0.34	0.00	0.00
HU	2.97	0.02	0.06	0.21	0.01	0.00	2.49	0.15	0.02
MT	0.06	0.00	0.00	0.02	0.01	0.00	0.02	0.00	0.01
NL	6.78	0.00	1.32	0.75	0.03	0.00	4.22	0.15	0.31
AT	10.50	3.61	0.58	0.18	0.18	0.00	5.51	0.04	0.40
PL	12.95	0.18	1.36	0.17	0.08	0.00	10.84	0.03	0.30
PT	6.37	1.04	1.06	0.15	0.10	0.00	3.11	0.20	0.72
RO	5.99	1.32	0.60	0.15	0.00	0.00	3.90	0.02	0.00
SI	1.18	0.42	0.00	0.03	0.01	0.00	0.65	0.01	0.05
SK	2.15	0.39	0.00	0.06	0.01	0.00	1.63	0.01	0.05
FI	12.02	1.37	0.68	0.02	0.00	0.00	9.38	0.00	0.57
SE	23.21	6.22	2.37	0.09	0.01	0.00	12.75	0.00	1.77

source: Eurostat April 2022

Methodology and Notes: see appendices

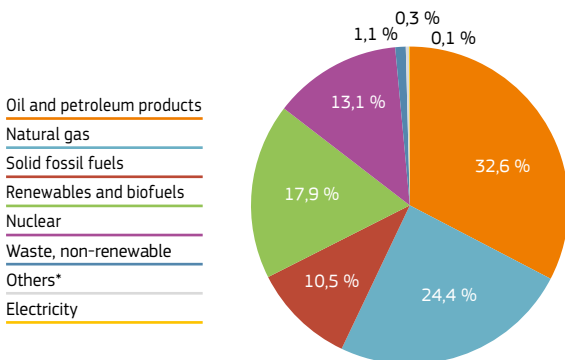
2.1.4 Gross Inland Consumption

BY FUEL – EU27_2020 – 1990-2020 (Mtoe)



GROSS INLAND CONSUMPTION – BY FUEL – EU27_2020 – 2020 (% TOTAL)

Total = 1 340.1 Mtoe



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

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

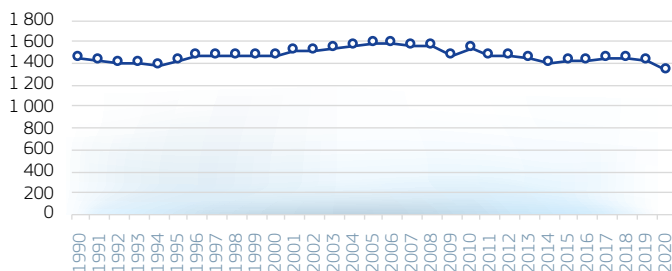
2.1.5 Total Energy Supply

ALL FUELS

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	1 469.69	1 572.74	1 527.01	1 413.45	1 416.16	1 322.15
Index2000	100%	107%	104%	96%	96%	90%
BE	57.93	58.12	59.31	52.24	54.38	50.24
BG	18.55	19.89	17.75	18.50	18.60	17.70
CZ	41.13	45.22	45.15	41.76	42.52	40.10
DK	18.71	18.96	19.56	16.37	16.23	15.55
DE	335.81	339.03	330.30	310.08	298.40	280.17
EE	4.69	5.44	5.89	4.80	4.73	4.47
IE	13.77	14.65	14.32	13.41	13.87	13.32
EL	27.06	30.26	27.66	23.26	22.42	20.09
ES	121.24	141.29	127.00	118.95	121.94	110.22
FR	250.83	271.84	264.33	254.30	245.15	221.10
HR	8.38	9.73	9.37	8.39	8.59	8.25
IT	171.71	186.45	173.68	152.56	151.46	140.10
CY	2.14	2.24	2.48	2.05	2.32	2.19
LV	3.84	4.53	4.51	4.27	4.49	4.30
LT	7.33	8.94	7.03	7.10	7.68	7.58
LU	3.34	4.37	4.21	3.72	3.94	3.42
HU	24.99	28.25	26.36	25.03	26.43	26.05
MT	0.68	0.85	0.84	0.64	0.74	0.70
NL	74.97	80.06	82.74	72.57	72.09	69.72
AT	28.67	33.74	34.17	33.02	33.81	31.91
PL	88.94	92.25	101.10	95.22	105.00	102.52
PT	24.71	26.68	23.51	22.54	22.43	20.86
RO	36.63	38.56	34.84	31.63	33.05	32.16
SI	6.54	7.54	7.23	6.47	6.70	6.31
SK	17.70	18.66	17.67	16.22	16.98	16.42
FI	32.42	34.42	36.25	32.02	33.38	31.83
SE	46.99	50.76	49.75	46.28	48.83	44.86

TOTAL ENERGY SUPPLY – ALL FUELS –
1990-2020 (Mtoe)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: see appendices

2.2 Imports

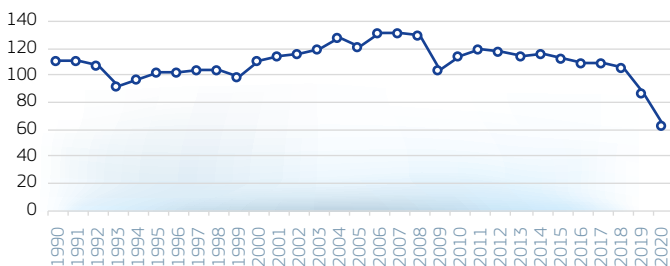
2.2.1 Imports – Solid Fossil Fuels

TOTAL

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	110.2	121.1	114.0	113.0	86.9	62.9
Index2000	100%	110%	103%	103%	79%	57%
BE	8.43	6.01	4.39	3.37	3.19	2.57
BG	2.38	2.56	1.75	0.76	0.40	0.41
CZ	1.04	1.34	2.36	2.84	2.91	2.79
DK	3.86	3.56	2.68	1.60	1.37	0.64
DE	22.22	26.58	32.59	37.48	28.18	21.09
EE	0.07	0.04	0.05	0.00	0.03	0.00
IE	1.70	1.91	0.97	1.52	0.27	0.27
EL	0.81	0.40	0.40	0.16	0.20	0.19
ES	13.35	14.83	7.85	10.95	5.53	2.95
FR	13.38	13.98	12.25	9.19	7.30	5.11
HR	0.48	0.62	0.70	0.62	0.45	0.38
IT	13.23	16.53	14.00	12.58	6.59	4.95
CY	0.03	0.04	0.01	0.00	0.02	0.01
LV	0.06	0.08	0.11	0.04	0.05	0.02
LT	0.08	0.17	0.19	0.15	0.18	0.12
LU	0.11	0.08	0.07	0.05	0.04	0.04
HU	1.21	1.46	1.41	1.11	1.07	0.92
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	8.13	8.46	7.76	10.78	6.61	3.97
AT	3.07	4.05	3.37	2.85	2.82	2.44
PL	1.02	2.15	8.27	5.06	10.07	7.74
PT	3.97	3.23	1.63	3.21	1.52	0.01
RO	1.92	2.93	1.22	1.05	1.08	0.77
SI	0.25	0.33	0.28	0.20	0.21	0.18
SK	3.47	3.90	3.22	2.82	2.60	2.02
FI	3.56	3.36	3.99	2.59	2.26	1.80
SE	2.36	2.48	2.46	1.98	1.95	1.47

IMPORTS – SOLID FOSSIL FUELS – TOTAL – 1990-2020 (Mtoe)

EU27_2020



source: Eurostat April 2022

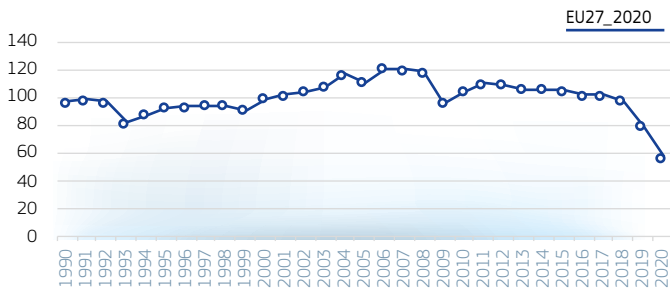
Methodology and Notes: [see appendices](#)

2.2.1 Imports – Solid Fossil Fuels

HARD COAL

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	99.3	111.3	104.1	105.1	79.8	57.1
Index2000	100%	112%	105%	106%	80%	58%
BE	7.46	5.70	4.09	2.85	2.58	2.12
BG	2.25	2.49	1.70	0.70	0.36	0.36
CZ	0.63	0.76	1.41	1.96	2.42	2.33
DK	3.82	3.54	2.67	1.59	1.36	0.64
DE	17.39	23.93	29.33	35.35	26.80	19.93
EE	0.06	0.04	0.05	0.00	0.03	0.00
IE	1.68	1.88	0.95	1.50	0.26	0.26
EL	0.81	0.40	0.40	0.16	0.20	0.19
ES	13.25	14.74	7.71	10.73	4.99	2.37
FR	12.33	12.85	11.30	8.79	6.83	4.75
HR	0.44	0.57	0.64	0.58	0.42	0.36
IT	12.87	15.94	13.81	11.92	6.19	4.66
CY	0.03	0.04	0.01	0.00	0.02	0.01
LV	0.05	0.07	0.11	0.04	0.05	0.02
LT	0.01	0.00	0.11	0.14	0.17	0.11
LU	0.10	0.07	0.06	0.04	0.04	0.04
HU	0.88	1.00	1.28	0.97	0.97	0.86
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	7.74	8.19	7.52	10.73	6.55	3.92
AT	2.32	3.00	2.45	2.11	2.13	1.84
PL	1.01	2.05	8.16	4.91	9.86	7.57
PT	3.97	3.22	1.63	3.20	1.52	0.00
RO	1.65	2.05	0.14	0.08	0.10	0.08
SI	0.01	0.03	0.02	0.01	0.01	0.01
SK	3.15	3.48	2.57	2.53	2.25	1.72
FI	3.21	3.01	3.68	2.28	2.03	1.59
SE	2.14	2.22	2.29	1.92	1.64	1.39

IMPORTS – HARD COAL – 1990-2020 (Mtoe)



source: Eurostat April 2022

Methodology and Notes: see appendices

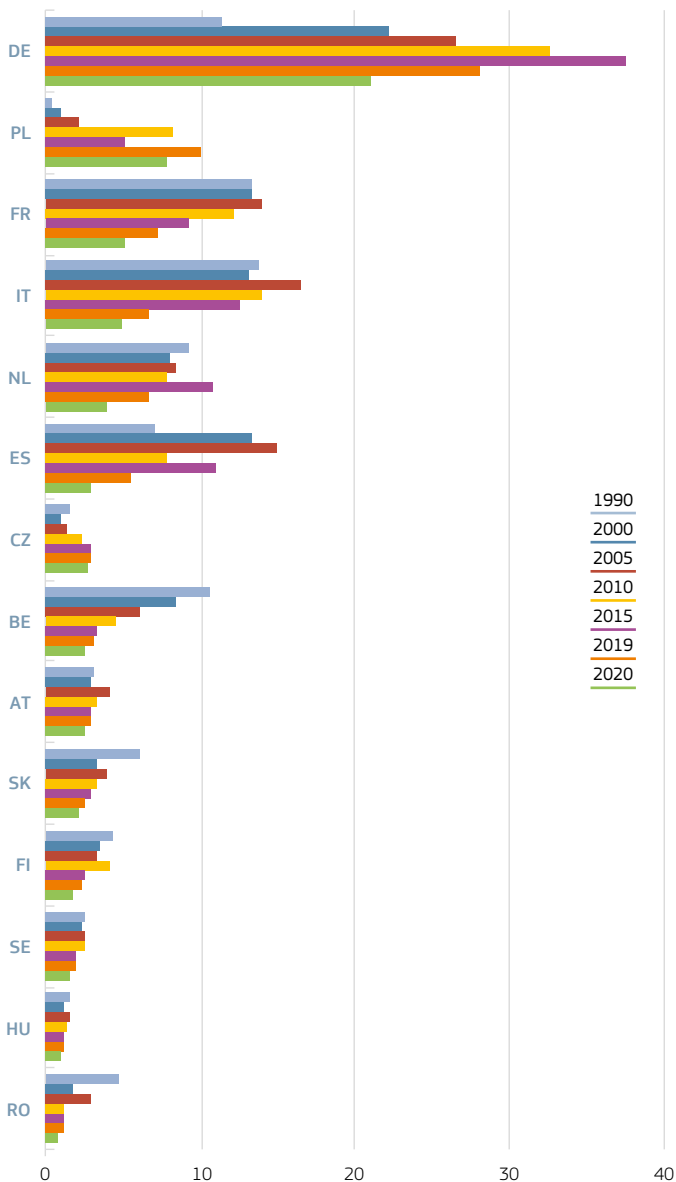
2.2.1 Imports – Solid Fossil Fuels

RANKING

Mtoe and % Top 10 Ranking	2000			2020		
	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Solid fossil fuels						
1	DE	22.2	20.2%	DE	21.1	33.5%
2	FR	13.4	12.1%	PL	7.7	12.3%
3	ES	13.3	12.1%	FR	5.1	8.1%
4	IT	13.2	12.0%	IT	4.9	7.9%
5	BE	8.4	7.7%	NL	4.0	6.3%
6	NL	8.1	7.4%	ES	3.0	4.7%
7	PT	4.0	3.6%	CZ	2.8	4.4%
8	DK	3.9	3.5%	BE	2.6	4.1%
9	FI	3.6	3.2%	AT	2.4	3.9%
10	SK	3.5	3.1%	SK	2.0	3.2%
Top 5 Total		70.6	64.1%		42.9	68.2%
Total EU27_2020		110.2	100.0%		62.9	100.0%
Of Which: hard coal						
1	DE	17.4	17.5%	DE	19.9	34.9%
2	ES	13.3	13.4%	PL	7.6	13.3%
3	IT	12.9	13.0%	FR	4.8	8.3%
4	FR	12.3	12.4%	IT	4.7	8.2%
5	NL	7.7	7.8%	NL	3.9	6.9%
6	BE	7.5	7.5%	ES	2.4	4.2%
7	PT	4.0	4.0%	CZ	2.3	4.1%
8	DK	3.8	3.9%	BE	2.1	3.7%
9	FI	3.2	3.2%	AT	1.8	3.2%
10	SK	3.1	3.2%	SK	1.7	3.0%
Top 5 Total		63.6	64.1%		40.8	71.5%
Total EU27_2020		99.3	100.0%		57.1	100.0%

2.2.1 Imports – Solid Fossil Fuels

BY MEMBER STATE – TOP 14 IMPORTERS
1990-2020

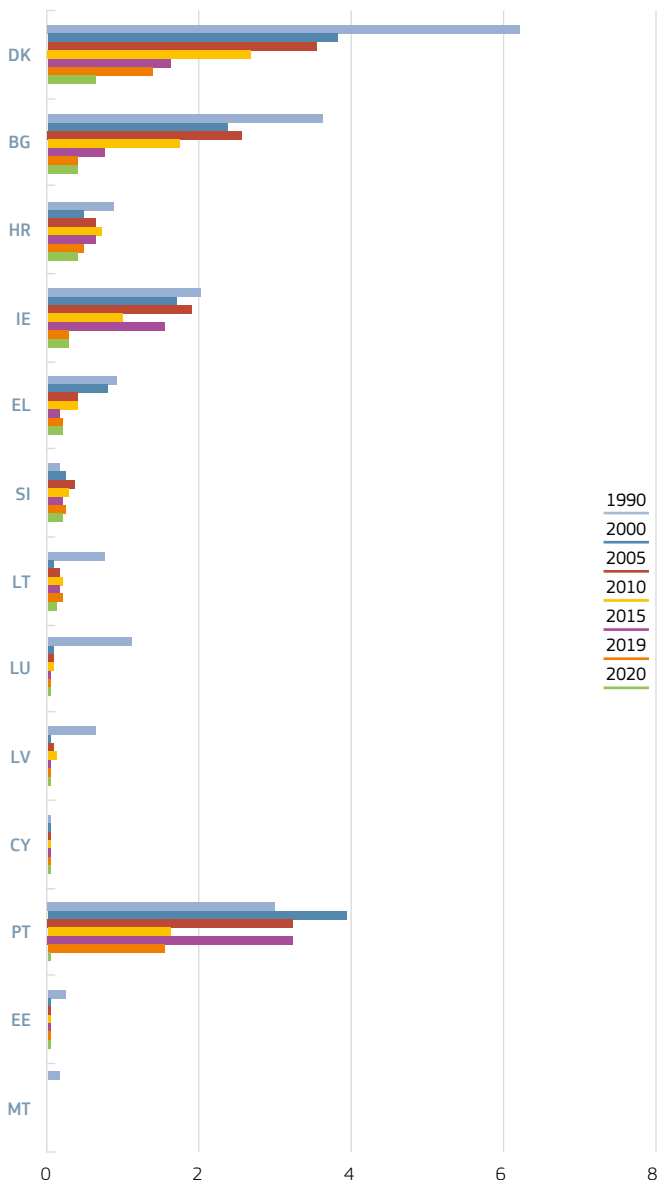


source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.2.1 Imports – Solid Fossil Fuels

BY MEMBER STATE – LEAST 13 IMPORTERS
1990-2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

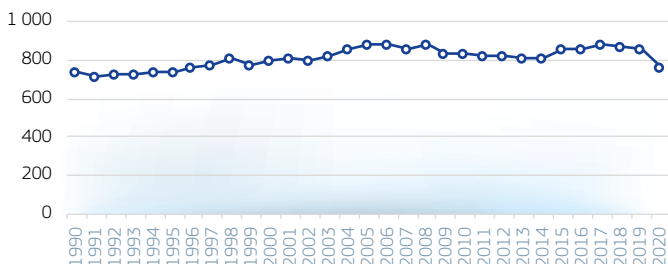
2.2.2 Imports – Oil and Petroleum Products

TOTAL

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	799.0	877.2	838.6	857.6	856.0	756.4
Index2000	100%	110%	105%	107%	107%	95%
BE	52.91	58.44	56.76	59.88	63.14	53.81
BG	6.10	7.85	7.76	8.99	9.32	7.20
CZ	8.58	10.96	10.61	11.17	11.86	10.52
DK	9.93	8.79	9.52	13.99	12.36	11.71
DE	148.18	150.88	130.79	130.77	130.16	119.35
EE	0.91	1.15	1.15	1.68	1.83	2.19
IE	9.63	10.35	9.21	9.28	9.01	8.12
EL	23.43	26.08	26.61	30.93	32.25	30.96
ES	78.71	88.14	80.88	84.21	88.77	75.15
FR	112.87	123.36	106.38	103.19	95.29	78.15
HR	4.21	5.53	4.97	4.54	4.85	4.45
IT	109.73	108.25	96.89	80.73	80.59	65.73
CY	2.54	2.81	2.93	2.46	2.60	2.27
LV	1.35	2.29	1.94	2.76	2.33	2.02
LT	5.46	9.63	10.25	11.17	10.81	9.02
LU	2.39	3.16	2.86	2.62	2.97	2.40
HU	7.00	9.13	8.53	9.33	10.43	9.52
MT	1.47	1.59	2.38	2.67	3.07	2.71
NL	104.61	125.35	146.70	156.29	149.13	132.57
AT	12.45	15.47	13.96	14.03	15.16	13.61
PL	21.78	24.96	29.22	32.53	36.16	33.49
PT	17.62	19.52	15.40	18.10	16.46	14.71
RO	6.36	9.71	8.17	9.62	12.07	10.72
SI	2.69	2.85	3.29	4.09	4.95	4.06
SK	5.56	6.83	6.85	7.57	7.02	7.30
FI	15.65	16.04	16.30	16.53	18.10	17.23
SE	26.83	28.07	28.34	28.43	25.26	27.42

IMPORTS – OIL AND PETROLEUM PRODUCTS – TOTAL – 1990-2020 (Mtoe)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: see appendices

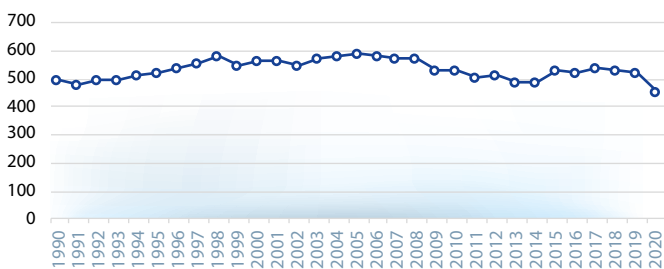
2.2.2 Imports – Oil and Petroleum Products

CRUDE OIL AND NGL

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	560.3	588.1	528.3	526.5	518.8	453.2
Index2000	100%	105%	94%	94%	93%	81%
BE	34.16	31.99	33.48	32.44	34.64	27.72
BG	5.31	6.14	5.52	6.17	7.10	4.94
CZ	5.67	7.76	7.83	7.22	7.85	6.27
DK	3.81	2.79	2.79	4.28	5.17	4.79
DE	104.75	115.21	94.69	92.66	87.30	83.98
EE	0.00	0.00	0.00	0.00	0.00	0.00
IE	3.01	3.34	3.11	3.72	2.61	2.97
EL	19.22	18.55	19.97	21.91	22.65	22.59
ES	58.07	60.16	53.00	65.39	66.99	55.42
FR	85.45	86.00	65.48	59.20	49.58	33.84
HR	3.96	4.05	3.60	2.37	2.05	1.98
IT	83.64	89.30	78.60	62.46	63.14	50.36
CY	1.17	0.00	0.00	0.00	0.00	0.00
LV	0.00	0.00	0.00	0.00	0.00	0.00
LT	4.92	9.08	9.20	8.71	9.67	7.92
LU	0.00	0.00	0.00	0.00	0.00	0.00
HU	5.79	6.59	5.84	6.35	6.10	6.09
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	61.06	62.48	61.05	60.29	63.79	57.33
AT	7.43	7.95	6.90	8.23	8.72	7.64
PL	18.27	18.18	23.03	26.89	27.02	25.28
PT	11.73	13.42	11.48	14.36	11.48	11.02
RO	4.81	8.69	5.82	6.59	8.66	7.07
SI	0.12	0.00	0.00	0.00	0.00	0.00
SK	5.28	5.37	5.48	5.92	5.16	5.67
FI	11.86	10.84	11.44	11.12	12.70	11.60
SE	20.83	20.24	20.00	20.25	16.47	18.70

IMPORTS – CRUDE OIL AND NGL – 1990-2020 (Mtoe)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.2.2 Imports – Oil and Petroleum Products

RANKING

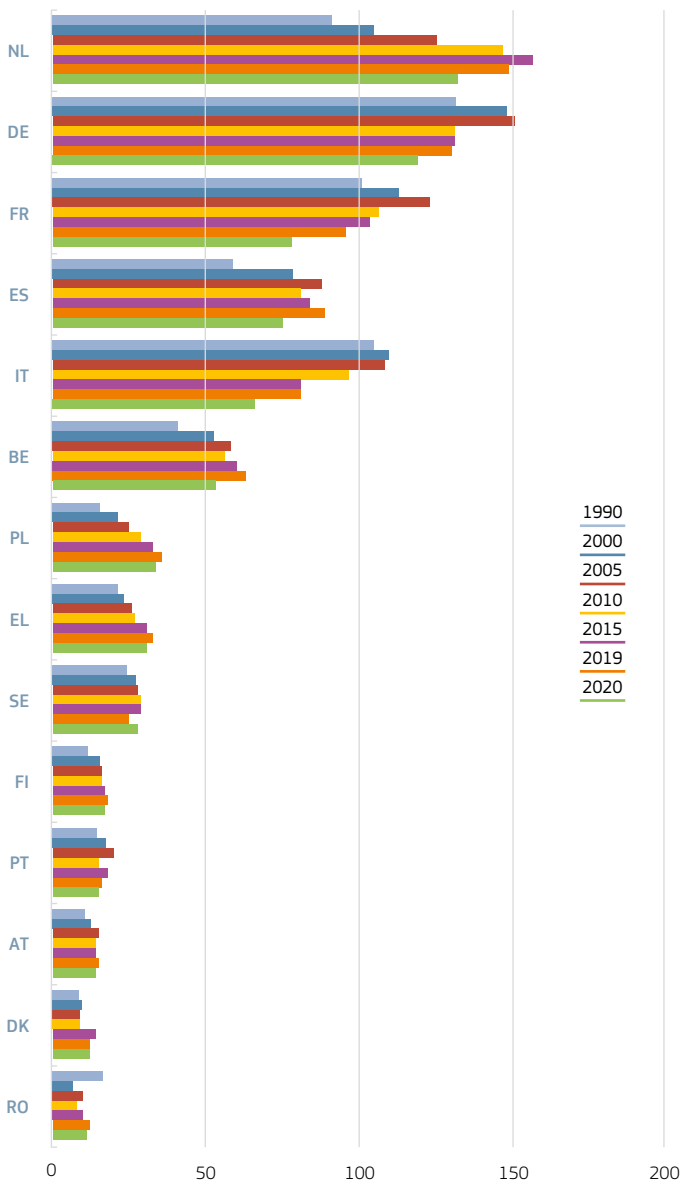
Mtoe and % Top 10 Ranking	2000			2020		
	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Oil and petroleum products						
1	DE	148.2	18.5 %	NL	132.6	17.5 %
2	FR	112.9	14.1 %	DE	119.3	15.8 %
3	IT	109.7	13.7 %	FR	78.1	10.3 %
4	NL	104.6	13.1 %	ES	75.1	9.9 %
5	ES	78.7	9.9 %	IT	65.7	8.7 %
6	BE	52.9	6.6 %	BE	53.8	7.1 %
7	SE	26.8	3.4 %	PL	33.5	4.4 %
8	EL	23.4	2.9 %	EL	31.0	4.1 %
9	PL	21.8	2.7 %	SE	27.4	3.6 %
10	PT	17.6	2.2 %	FI	17.2	2.3 %
Top 5 Total		554.1	69.4 %	470.9		62.3 %
Total EU27_2020		799.0	100.0 %	756.4		100.0 %
Of Which: crude oil and NGL						
1	DE	104.8	18.7 %	DE	84.0	18.5 %
2	FR	85.4	15.2 %	NL	57.3	12.7 %
3	IT	83.6	14.9 %	ES	55.4	12.2 %
4	NL	61.1	10.9 %	IT	50.4	11.1 %
5	ES	58.1	10.4 %	FR	33.8	7.5 %
6	BE	34.2	6.1 %	BE	27.7	6.1 %
7	SE	20.8	3.7 %	PL	25.3	5.6 %
8	EL	19.2	3.4 %	EL	22.6	5.0 %
9	PL	18.3	3.3 %	SE	18.7	4.1 %
10	FI	11.9	2.1 %	FI	11.6	2.6 %
Top 5 Total		393.0	70.1 %	280.9		62.0 %
Total EU27_2020		560.3	100.0 %	453.2		100.0 %

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.2.2 Imports – Oil and Petroleum Products

BY MEMBER STATE – TOP 14 IMPORTERS
1990-2020 (Mtoe)

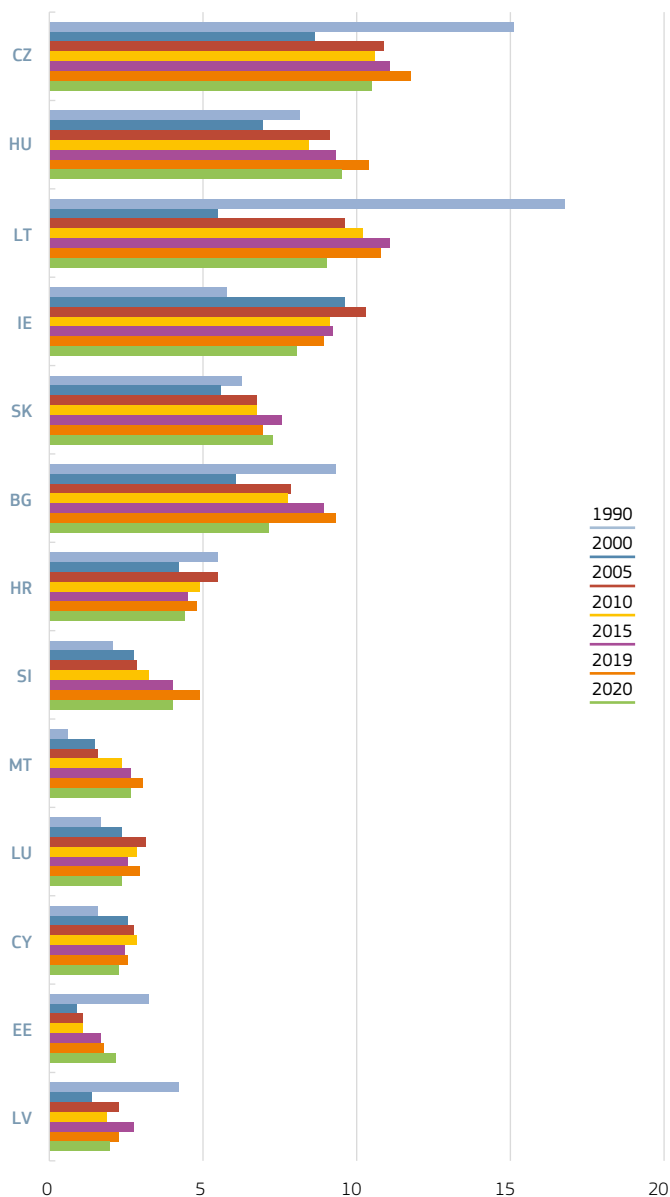


source: Eurostat April 2022
Methodology and Notes: [see appendices](#)

2.2.2 Imports – Oil and Petroleum Products

BY MEMBER STATE – LEAST 13 IMPORTERS

1990-2020 (Mtoe)



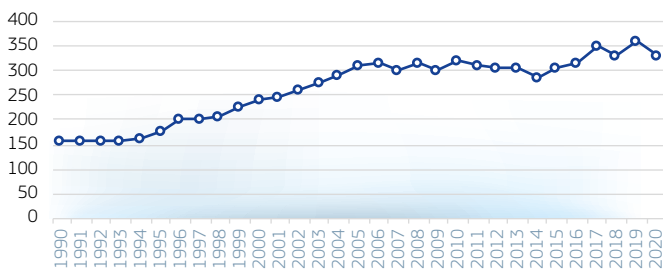
source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.2.3 Imports – Natural Gas

TOTAL

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	240.41	310.39	320.11	305.99	360.28	329.27
Index2000	100%	129%	133%	127%	150%	137%
BE	13.28	14.87	19.61	15.33	19.28	17.96
BG	2.74	2.46	2.13	2.52	2.46	2.43
CZ	7.48	7.60	6.98	6.16	7.86	6.26
DK	0.00	0.00	0.14	0.59	1.00	2.21
DE	61.09	78.90	78.80	85.92	75.67	66.47
EE	0.66	0.80	0.56	0.39	0.40	0.37
IE	2.48	3.01	4.48	3.62	2.42	2.90
EL	1.69	2.33	3.23	2.67	4.46	4.99
ES	15.47	30.25	31.96	28.18	32.37	28.25
FR	36.46	41.62	42.11	39.38	48.90	41.22
HR	0.91	0.93	0.87	0.87	1.66	1.78
IT	47.05	60.16	61.72	50.18	58.20	54.38
CY	0.00	0.00	0.00	0.00	0.00	0.00
LV	1.11	1.43	0.90	1.08	1.10	0.91
LT	2.06	2.49	2.48	2.14	2.30	2.38
LU	0.67	1.18	1.20	0.77	0.68	0.62
HU	7.35	9.81	7.91	5.68	15.58	10.19
MT	0.00	0.00	0.00	0.00	0.32	0.31
NL	12.47	16.44	18.45	29.16	42.49	42.86
AT	5.32	8.04	10.19	9.82	11.76	13.68
PL	6.64	8.57	8.91	9.99	14.47	14.47
PT	2.04	3.89	4.50	4.07	5.30	5.15
RO	2.71	4.19	1.82	0.16	2.16	1.73
SI	0.82	0.93	0.86	0.66	0.73	0.73
SK	5.71	6.05	5.00	3.69	5.58	3.60
FI	3.43	3.61	3.84	2.24	2.14	2.12
SE	0.78	0.84	1.47	0.72	0.98	1.30

IMPORTS – NATURAL GAS – TOTAL – 1990-2020 (Mtoe) EU27_2020

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.2.3 Imports – Natural Gas

RANKING

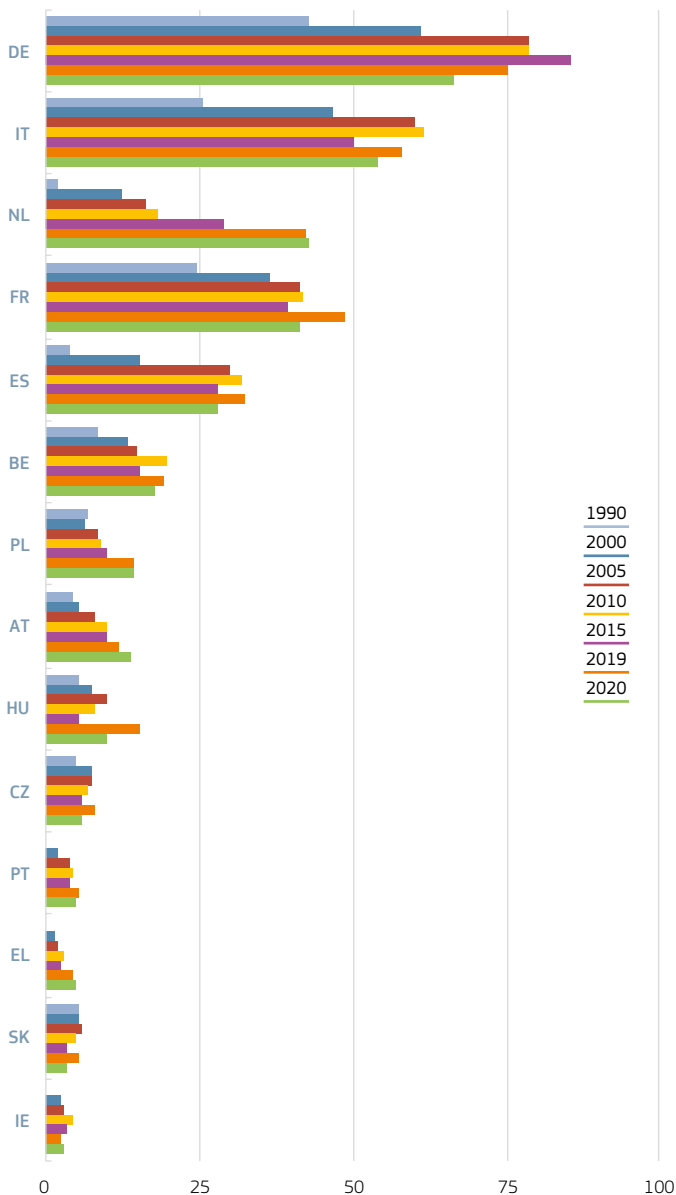
Mtoe and % EU27_2020 Ranking	2000			2020		
	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Natural gas						
1	DE	61.1	25.4%	DE	66.5	20.2%
2	IT	47.0	19.6%	IT	54.4	16.5%
3	FR	36.5	15.2%	NL	42.9	13.0%
4	ES	15.5	6.4%	FR	41.2	12.5%
5	BE	13.3	5.5%	ES	28.2	8.6%
6	NL	12.5	5.2%	BE	18.0	5.5%
7	CZ	7.5	3.1%	PL	14.5	4.4%
8	HU	7.3	3.1%	AT	13.7	4.2%
9	PL	6.6	2.8%	HU	10.2	3.1%
10	SK	5.7	2.4%	CZ	6.3	1.9%
11	AT	5.3	2.2%	PT	5.2	1.6%
12	FI	3.4	1.4%	EL	5.0	1.5%
13	BG	2.7	1.1%	SK	3.6	1.1%
14	RO	2.7	1.1%	IE	2.9	0.9%
15	IE	2.5	1.0%	BG	2.4	0.7%
16	LT	2.1	0.9%	LT	2.4	0.7%
17	PT	2.0	0.8%	DK	2.2	0.7%
18	EL	1.7	0.7%	FI	2.1	0.6%
19	LV	1.1	0.5%	HR	1.8	0.5%
20	HR	0.9	0.4%	RO	1.7	0.5%
21	SI	0.8	0.3%	SE	1.3	0.4%
22	SE	0.8	0.3%	LV	0.9	0.3%
23	LU	0.7	0.3%	SI	0.7	0.2%
24	EE	0.7	0.3%	LU	0.6	0.2%
25	DK	0.0	0.0%	EE	0.4	0.1%
26	CY	0.0	0.0%	MT	0.3	0.1%
27	MT	0.0	0.0%	CY	0.0	0.0%
Top 5 Total		173.3	72.1%		233.2	70.8%
Total EU27_2020		240.4	100.0%		329.3	100.0%

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.2.3 Imports – Natural Gas

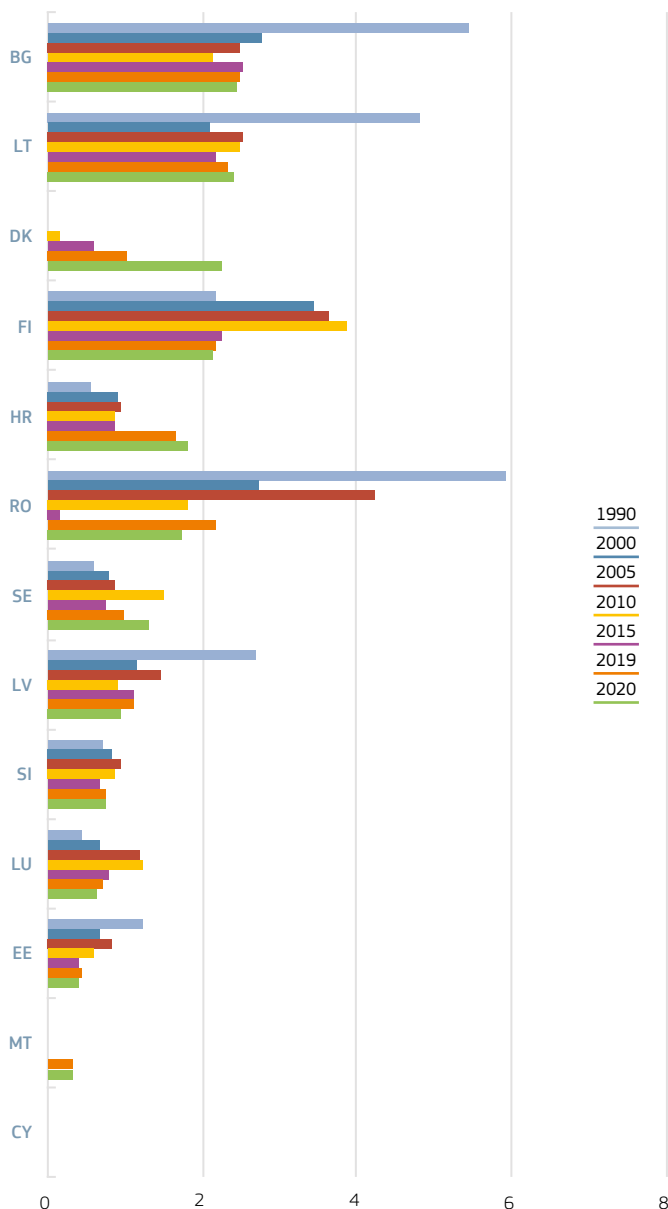
BY MEMBER STATE – TOP 14 IMPORTERS
1990-2020



source: Eurostat April 2022
Methodology and Notes: [see appendices](#)

2.2.3 Imports – Natural Gas

BY MEMBER STATE – LEAST 13 IMPORTERS
1990-2020



source: Eurostat April 2022

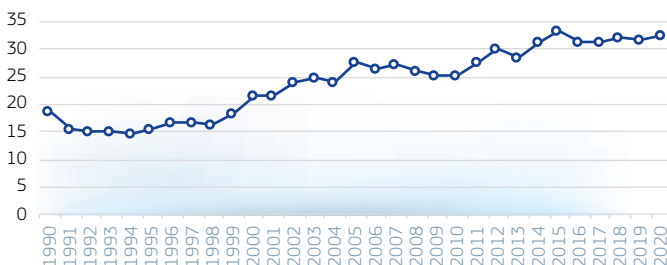
Methodology and Notes: [see appendices](#)

2.2.4 Imports – Electricity

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	21.7	27.9	25.1	33.3	31.8	32.7
Index2000	100%	129%	116%	154%	147%	151%
BE	1.00	1.23	1.07	2.04	1.09	1.18
BG	0.08	0.07	0.10	0.37	0.26	0.32
CZ	0.75	1.06	0.57	1.39	0.95	1.15
DK	0.72	1.11	0.91	1.35	1.37	1.60
DE	3.88	4.89	3.69	3.18	3.45	4.11
EE	0.03	0.03	0.09	0.47	0.42	0.63
IE	0.01	0.18	0.07	0.15	0.19	0.15
EL	0.15	0.48	0.73	0.95	0.95	0.85
ES	1.05	0.88	0.45	1.29	1.61	1.54
FR	0.32	0.69	1.67	0.86	1.34	1.68
HR	0.38	0.75	1.07	1.13	0.98	0.90
IT	3.85	4.32	3.95	4.37	3.78	3.42
CY	0.00	0.00	0.00	0.00	0.00	0.00
LV	0.18	0.25	0.34	0.45	0.40	0.36
LT	0.44	0.49	0.70	0.68	1.14	1.03
LU	0.55	0.55	0.63	0.65	0.59	0.56
HU	0.82	1.34	0.85	1.71	1.71	1.65
MT	0.00	0.00	0.00	0.09	0.06	0.04
NL	1.97	2.04	1.34	2.64	1.75	1.70
AT	1.19	1.75	1.71	2.53	2.24	2.11
PL	0.28	0.43	0.54	1.24	1.54	1.77
PT	0.40	0.83	0.50	0.69	0.70	0.65
RO	0.07	0.20	0.07	0.39	0.47	0.71
SI	0.36	0.80	0.74	0.78	0.78	0.61
SK	0.51	0.69	0.63	1.29	1.16	1.14
FI	1.05	1.54	1.35	1.85	2.06	1.86
SE	1.57	1.25	1.28	0.80	0.78	1.02

IMPORTS – ELECTRICITY – 1990-2020 (Mtoe)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

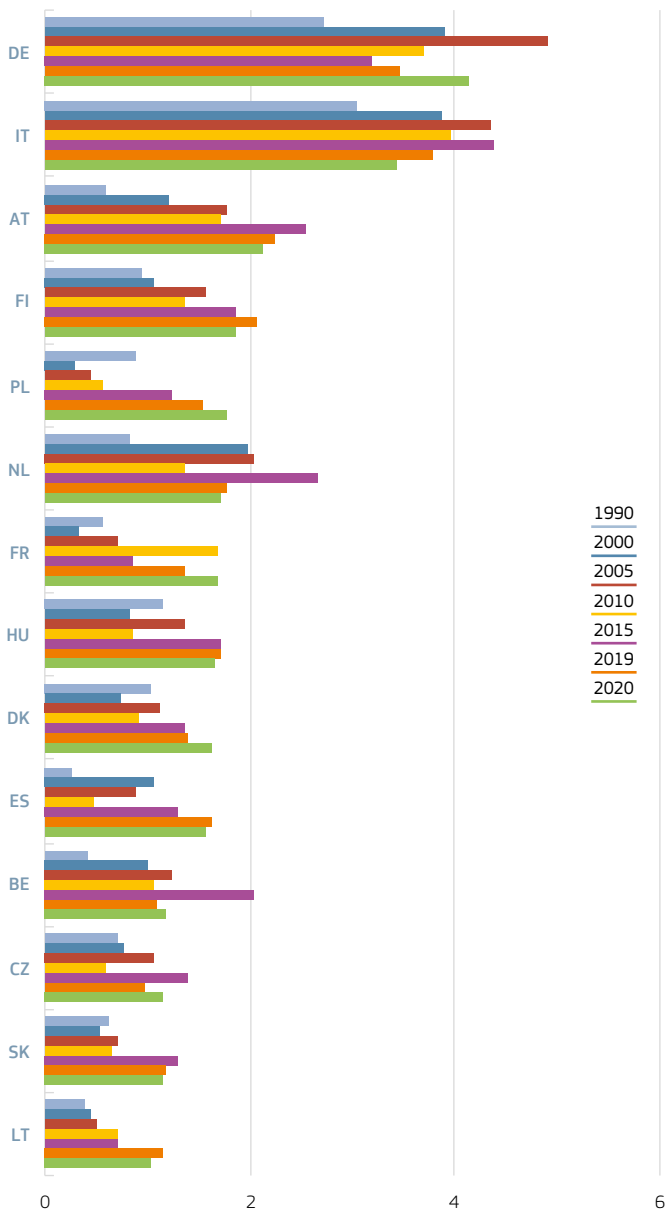
2.2.4 Imports – Electricity

RANKING

Mtoe and %	2000			2020		
	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Electricity						
1	DE	3.88	17.9%	DE	4.11	12.6%
2	IT	3.85	17.8%	IT	3.42	10.4%
3	NL	1.97	9.1%	AT	2.11	6.4%
4	SE	1.57	7.3%	FI	1.86	5.7%
5	AT	1.19	5.5%	PL	1.77	5.4%
6	ES	1.05	4.9%	NL	1.70	5.2%
7	FI	1.05	4.8%	FR	1.68	5.1%
8	BE	1.00	4.6%	HU	1.65	5.0%
9	HU	0.82	3.8%	DK	1.60	4.9%
10	CZ	0.75	3.5%	ES	1.54	4.7%
11	DK	0.72	3.3%	BE	1.18	3.6%
12	LU	0.55	2.6%	CZ	1.15	3.5%
13	SK	0.51	2.4%	SK	1.14	3.5%
14	LT	0.44	2.0%	LT	1.03	3.2%
15	PT	0.40	1.9%	SE	1.02	3.1%
16	HR	0.38	1.7%	HR	0.90	2.8%
17	SI	0.36	1.7%	EL	0.85	2.6%
18	FR	0.32	1.5%	RO	0.71	2.2%
19	PL	0.28	1.3%	PT	0.65	2.0%
20	LV	0.18	0.8%	EE	0.63	1.9%
21	EL	0.15	0.7%	SI	0.61	1.9%
22	BG	0.08	0.4%	LU	0.56	1.7%
23	RO	0.07	0.3%	LV	0.36	1.1%
24	EE	0.03	0.1%	BG	0.32	1.0%
25	IE	0.01	0.1%	IE	0.15	0.5%
26	CY	0.00	0.0%	MT	0.04	0.1%
27	MT	0.00	0.0%	CY	0.00	0.0%
Top 5 Total		12.5	57.6%		13.3	40.5%
Total EU27_2020		21.7	100.0%		32.7	100.0%

2.2.4 Imports – Electricity

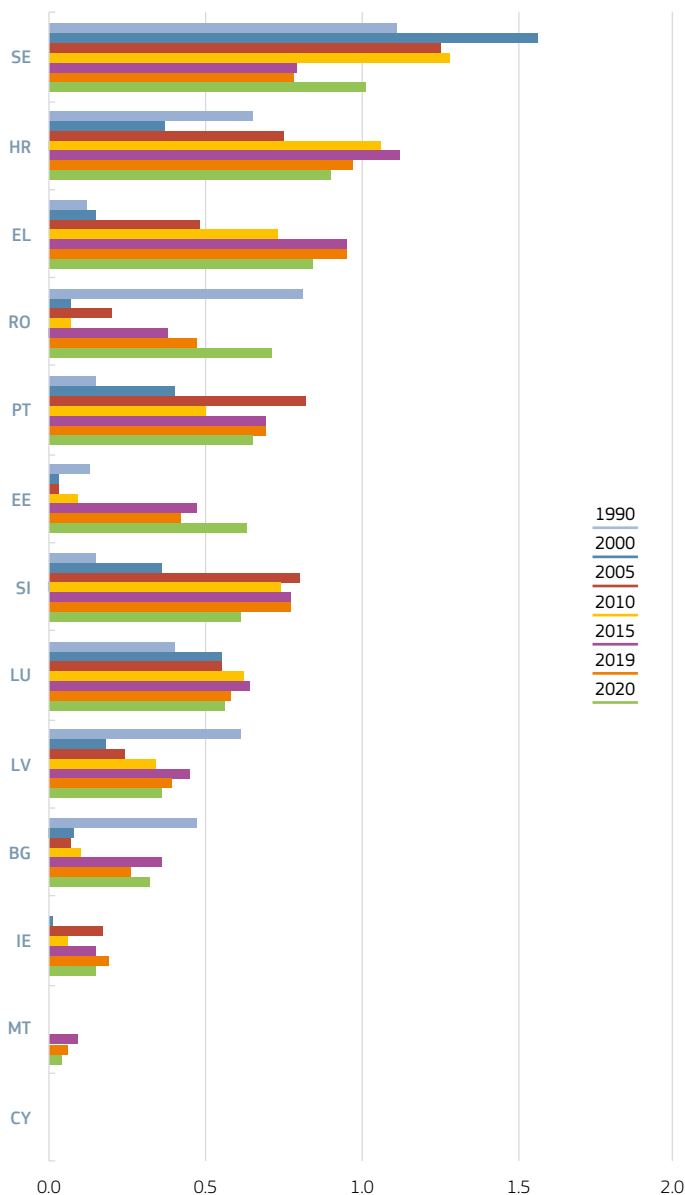
BY MEMBER STATE – TOP 14 IMPORTERS
1990-2020 (Mtoe)



source: Eurostat April 2022
Methodology and Notes: [see appendices](#)

2.2.4 Imports – Electricity

BY MEMBER STATE – LEAST 13 IMPORTERS
1990-2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

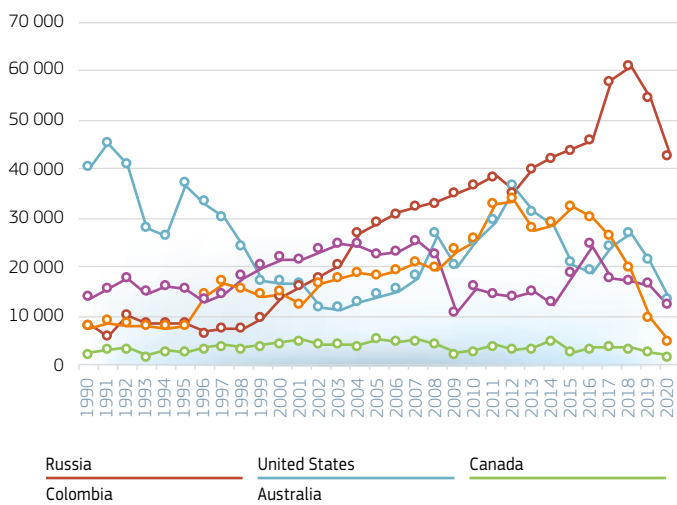
2.2.5 Imports by Country of Origin

EU27_2020 – HARD COAL

TOP 15 ORDERED BY 2020 VOLUME

kton	2000	2005	2010	2015	2019	2020
Russia	14179	29302	36786	43914	54569	43051
United States	16950	14023	25248	20624	21077	13369
Australia	21576	22596	15756	18559	16418	11921
Colombia	14566	18282	25414	32211	9626	4729
Canada	4675	5531	3137	2707	2728	2022
Kazakhstan	0	932	332	873	2629	1607
South Africa	34466	36295	15762	12862	3376	1095
United Kingdom	347	181	141	137	1299	1001
Mozambique	70	0	0	838	1849	745
Venezuela	3328	1988	659	207	185	220
Indonesia	7233	12314	9051	7005	2596	67
Norway	750	1045	930	572	192	27
Ukraine	2058	4209	3024	817	58	16
China including Hong Kong	1579	390	50	64	23	16
Switzerland	23	0	0	0	2	2
Other extra-EU	5363	3385	7698	11693	103	2
Extra-EU	127163	150473	143986	153083	116733	79889
Intra-EU	28432	24324	20515	13485	8700	7845
Total Intra-EU and Extra-EU	155595	174797	164501	166567	125433	87733

EU27_2020 – HARD COAL – IMPORTS FROM EXTRA-EU (1990–2020) TOP 5 ORDERED BY 2020 VOLUME (kton)



source: Eurostat April 2022

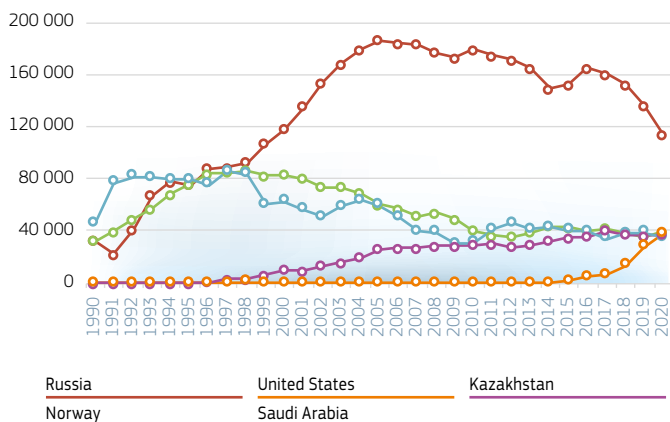
Methodology and Notes: [see appendices](#)

2.2.5 Imports by Country of Origin

EU27_2020 – CRUDE OIL & NGL

TOP 15 ORDERED BY 2020 VOLUME

kton	2000	2005	2010	2015	2019	2020
Russia	118282	186376	179253	152630	136557	113829
Norway	83622	60053	40523	42990	35984	39231
United States	0	0	28	1798	27523	37663
Kazakhstan	9993	26349	29654	35185	36811	37277
Saudi Arabia	63036	59427	30759	40264	38885	34558
Nigeria	22530	18293	19746	39233	39742	34007
Iraq	31317	12290	16945	40078	45506	29117
United Kingdom	45810	29133	28609	20291	24953	24895
Azerbaijan	3712	7255	22840	27297	22743	20284
Algeria	20565	20972	6990	17644	12729	10473
Libya	45540	50136	50929	12678	31444	9195
Mexico	9041	10205	6782	12980	10025	8443
Brazil	133	2658	4103	2971	5175	7804
Angola	3861	7025	8367	19436	7326	5758
Not specified	5271	10	180	206	539	5026
other extra-EU	79367	72741	66620	45068	32003	24960
Extra-EU	542081	562923	512328	510749	507944	442521
Intra-EU	13908	16945	9485	9282	4797	4946
Total Intra-EU and Extra-EU	555989	579867	521813	520031	512741	447467
Mio barrels	2000	2005	2010	2015	2019	2020
Extra-EU	3974	4127	3756	3744	3724	3244
Intra-EU	102	124	70	68	35	36
Total Intra-EU and Extra-EU	4076	4251	3826	3813	3759	3281

EU27_2020 – CRUDE OIL & NGL – IMPORTS FROM EXTRA-EU
(1990-2020) TOP 5 ORDERED BY 2020 VOLUME (kton)

source: Eurostat April 2022

Methodology and Notes: see appendices

2.2.5 Imports by Country of Origin

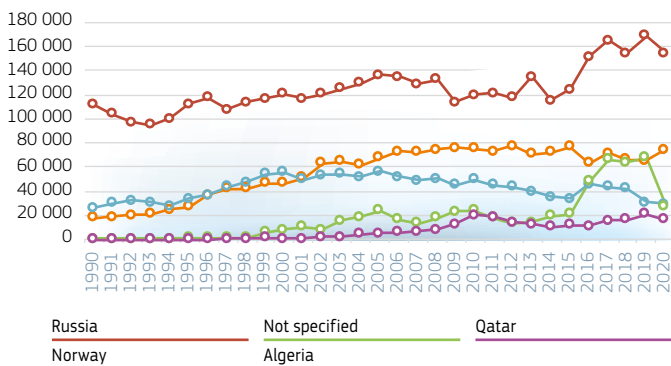
EU27_2020 – NATURAL GAS

TOP 8 ORDERED BY 2020 VOLUME

TJ (GCV)	2000	2005	2010	2015	2019	2020
Russia	4 582 197	5 207 617	4 555 369	4 778 474	6 461 869	5 929 770
Norway	1 880 469	2 579 666	2 876 470	2 946 396	2 456 344	2 829 957
Algeria	2 203 075	2 240 256	1 944 865	1 351 879	1 213 946	1 142 422
Not specified	334 765	937 384	957 962	818 395	2 472 926	1 080 404
Qatar	12 443	195 713	798 681	472 608	833 417	639 769
United States	0	0	0	0	488 485	606 558
United Kingdom	427 099	263 085	490 364	479 978	420 602	528 278
Nigeria	172 020	436 319	562 811	249 094	545 386	465 116
Other extra-EU	118 858	711 631	750 993	401 352	593 384	457 900
Extra-EU	9 730 926	12 571 671	12 937 515	11 498 176	15 486 360	13 680 175
Intra-EU	1 453 115	1 865 252	1 951 064	2 734 232	1 268 757	1 633 443
Total Intra-EU and Extra-EU	11 184 041	14 436 923	14 888 579	14 232 408	16 755 117	15 313 617

Mio m ³	2000	2005	2010	2015	2019	2020
Russia	120 699	136 283	119 665	124 320	168 860	155 020
Norway	46 847	67 641	74 994	77 033	65 135	74 563
Algeria	55 513	56 588	49 289	33 770	30 698	28 997
Not specified	8 126	23 866	24 111	20 964	67 753	27 431
Qatar	309	4 859	20 045	12 063	21 103	16 385
United States	0	0	0	0	12 560	15 682
United Kingdom	12 044	7 046	13 481	13 047	11 912	15 156
Nigeria	4 385	10 586	13 682	6 163	13 436	11 461
Other extra-EU	3 004	18 078	19 149	10 402	15 367	11 791
Extra-EU	250 927	324 947	334 416	297 763	406 824	356 486
Intra-EU	41 231	49 492	51 444	71 646	33 475	44 103
Total Intra-EU and Extra-EU	292 158	374 439	385 860	369 410	440 299	400 589

EU27_2020 – NATURAL GAS – IMPORTS FROM EXTRA-EU (1990-2020) TOP 5 BY 2020 VOLUME (Mio m³)



* total imports through pipelines and LNG

source: Eurostat April 2022

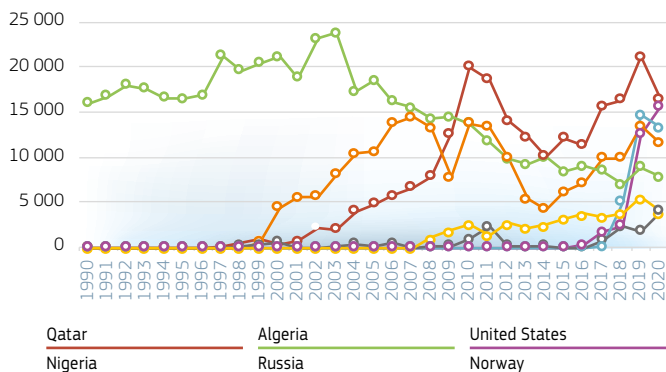
Methodology and Notes: [see appendices](#)

2.2.5 Imports by Country of Origin

EU27_2020 – LNG

TOP 8 ORDERED BY 2020 VOLUME

TJ (GCV)	2000	2005	2010	2015	2019	2020
Qatar	12 443	195 713	798 681	472 608	833 417	639 769
United States	0	0	0	0	488 485	606 558
Russia	0	0	115	1 077	576 341	512 705
Nigeria	172 020	436 319	562 811	249 094	545 386	465 116
Algeria	871 464	758 810	568 072	342 158	355 185	310 750
Not specified	22 204	3 014	36 092	192	67 784	168 077
Norway	0	0	104 694	117 798	205 466	152 332
Trinidad and Tobago	36 334	26 453	145 341	58 103	187 750	122 489
Other extra-EU	42 500	332 996	220 504	45 764	140 386	115 523
Extra-EU	1 156 965	1 753 305	2 436 310	1 286 794	3 400 199	3 093 318
Intra-EU	0	0	3 153	202	27 623	23 922
Total Intra-EU and Extra-EU	1 156 965	1 753 305	2 439 463	1 286 996	3 427 822	3 117 240
Mio m ³	2000	2005	2010	2015	2019	2020
Qatar	309	4 859	20 045	12 063	21 103	16 385
United States	0	0	0	0	12 560	15 682
Russia	0	0	3	29	14 653	13 270
Nigeria	4 385	10 586	13 682	6 163	13 436	11 461
Algeria	21 093	18 436	13 730	8 358	8 881	7 755
Not specified	552	75	891	7	1 753	4 071
Norway	0	0	2 598	3 244	5 500	3 954
Trinidad and Tobago	902	671	3 594	1 481	4 752	3 113
Other extra-EU	1 053	8 172	5 457	1 128	3 691	2 942
Extra-EU	28 294	42 799	60 000	32 474	86 330	78 634
Intra-EU	0	0	78	5	681	576
Total Intra-EU and Extra-EU	28 294	42 799	60 078	32 479	87 011	79 210

EU27_2020 – LNG – IMPORTS FROM EXTRA-EU
(1990-2020) TOP 5 BY 2020 VOLUME (Mio m³)

source: Eurostat April 2022

Methodology and Notes: see appendices

2.3 Energy Import Dependency

2.3.1 Import Dependency – All Fuels*

(%)

Imports From Extra-EU	2000	2005	2010	2015	2019	2020
EU27_2020	57.8	59.5	57.4	57.6	62.3	59.2
Index2000	100.0	103.0	99.4	99.7	107.7	102.4
Intra and Extra-EU Imports						
BE	85.2	90.2	88.4	93.3	88.9	87.7
BG	46.6	47.6	40.4	36.6	38.3	38.1
CZ	22.7	27.8	25.4	32.1	40.8	38.9
DK	-38.3	-52.6	-16.6	13.6	40.4	46.4
DE	59.8	61.2	60.5	62.6	67.4	64.0
EE	34.7	27.5	15.2	11.8	5.0	11.2
IE	86.4	90.3	88.3	89.8	69.4	72.1
EL	78.0	74.5	75.1	76.3	82.0	87.9
ES	80.5	86.0	82.0	77.2	79.3	71.8
FR	51.8	52.2	49.1	46.2	47.9	44.7
HR	48.6	52.7	46.7	48.8	56.4	53.7
IT	87.3	84.3	84.0	78.0	78.8	74.7
CY	106.4	112.0	107.4	107.6	102.6	104.3
LV	61.1	67.5	48.0	54.2	46.7	47.6
LT	58.5	56.2	80.6	76.2	77.1	76.7
LU	99.6	97.4	97.1	96.0	95.0	92.5
HU	55.0	62.3	56.9	53.9	69.7	56.6
MT	181.8	170.3	252.0	294.6	341.5	377.7
NL	44.7	44.8	32.8	57.2	74.0	79.3
AT	65.6	71.8	62.8	60.4	71.7	58.3
PL	10.8	17.8	31.6	29.9	45.4	42.9
PT	87.5	90.4	76.6	78.4	76.8	67.4
RO	21.9	27.5	21.4	16.7	30.3	28.2
SI	51.9	51.0	49.4	49.8	53.6	46.6
SK	65.1	66.0	64.4	60.1	69.8	56.3
FI	56.6	55.3	49.1	48.4	42.5	42.4
SE	40.4	39.5	39.5	31.2	31.3	35.4

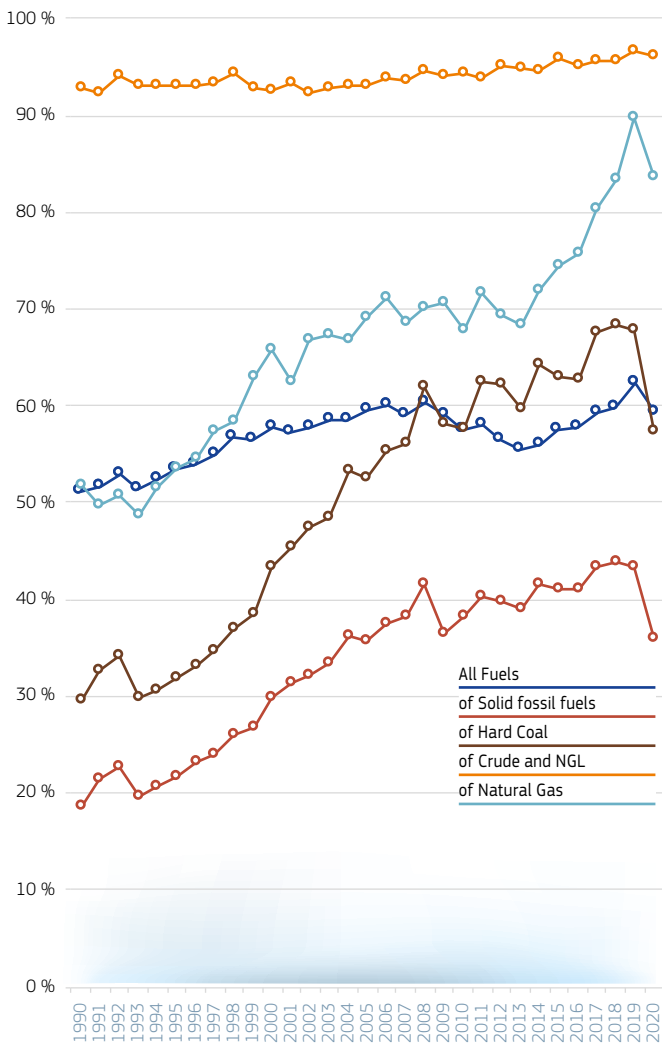
* Negative Rate Indicates a Net Exporter.
 Values Over 100% Indicate Stocks Build Up.
 EU27_2020: imports from extra-EU

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.3.2 Import Dependency by Fuel

EU27_2020 – IMPORTS FROM EXTRA-EU – 1990-2020 (%)



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.3.3 Import Dependency – Solid Fuels *

(%)

Imports From Extra-EU	2000	2005	2010	2015	2019	2020
EU27_2020	29.8	35.7	38.2	41.0	43.3	35.8
Index2000	100.0	119.6	128.1	137.3	144.9	120.1
Intra and Extra-EU Imports						
BE	91.2	101.3	97.5	95.7	102.1	102.7
BG	35.2	36.9	24.5	11.2	7.2	9.2
CZ	-22.0	-16.2	-15.3	-1.8	8.7	13.0
DK	94.9	94.4	69.4	85.0	154.0	74.9
DE	25.6	31.7	40.0	45.4	47.2	44.1
EE	125.2	88.4	132.6	-6.8	107.2	391.7
IE	93.3	100.8	77.7	103.0	68.2	60.3
EL	8.5	4.1	5.1	2.8	6.4	10.2
ES	61.3	70.3	92.8	75.4	89.5	54.8
FR	86.3	94.4	101.0	98.4	99.6	96.3
HR	110.9	91.3	102.5	103.0	107.3	106.0
IT	104.6	99.4	100.8	100.2	98.6	93.0
CY	102.0	121.1	65.6	100.0	117.2	105.4
LV	84.1	97.7	106.5	85.2	110.8	89.6
LT	101.7	101.0	95.7	90.6	108.1	87.9
LU	100.0	100.0	102.2	99.8	93.1	112.3
HU	28.1	42.5	41.9	33.7	45.7	43.7
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	99.4	101.3	101.4	96.6	102.1	91.9
AT	83.9	99.4	99.6	86.9	96.7	97.8
PL	-29.0	-23.8	-5.0	-11.4	6.0	0.3
PT	102.9	96.3	98.3	98.5	122.1	-6.5
RO	25.5	33.2	16.9	16.7	22.0	22.0
SI	18.8	21.0	19.3	19.1	20.1	17.6
SK	80.2	88.3	75.7	84.5	92.2	86.2
FI	97.6	102.0	86.3	91.3	98.9	92.2
SE	105.4	105.9	113.7	97.4	103.2	100.3

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

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.3.4 Import Dependency – Hard Coal*

(%)

Imports From Extra-EU	2000	2005	2010	2015	2019	2020
EU27_2020	43.2	52.5	57.7	63.0	67.9	57.4
Index2000	100.0	121.5	133.4	145.6	157.0	132.7
Intra and Extra-EU Imports						
BE	93.5	102.0	100.0	96.3	102.7	104.2
BG	101.0	94.0	86.0	96.1	57.6	69.0
CZ	-56.4	-49.4	-53.9	-8.6	41.7	52.0
DK	94.8	94.3	69.3	85.0	154.5	74.0
DE	39.2	57.7	73.2	87.6	95.2	92.8
EE	116.1	96.4	118.3	24.1	96.7	28.5
IE	93.1	100.8	77.5	103.0	67.4	59.2
EL	105.8	112.4	100.5	91.5	105.0	114.6
ES	71.5	79.1	95.7	79.6	91.6	46.2
FR	87.2	92.8	100.6	97.0	99.2	95.8
HR	112.8	90.6	102.7	102.4	108.6	106.7
IT	105.7	99.7	101.4	100.5	98.4	93.1
CY	102.0	121.2	65.4	100.0	117.2	105.4
LV	82.5	96.7	106.6	85.2	110.8	89.6
LT	100.0	100.0	109.7	90.1	109.1	86.7
LU	100.0	100.0	102.5	99.8	92.3	114.0
HU	96.4	108.3	99.2	99.2	98.8	97.0
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	98.9	100.0	101.6	96.5	101.8	93.0
AT	91.6	106.8	97.3	83.5	98.4	95.5
PL	-29.9	-21.3	3.7	-2.4	17.8	12.4
PT	103.4	96.3	98.3	98.5	122.3	-7.9
RO	96.3	103.1	88.4	96.9	97.7	106.4
SI	118.2	100.0	135.3	124.2	95.9	97.7
SK	103.8	105.2	91.9	97.5	102.7	97.3
FI	97.7	102.6	85.5	88.6	96.1	90.0
SE	107.7	104.3	115.2	99.6	98.1	101.5

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

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.3.5 Import Dependency – Oil and Petroleum Products *

(%)

Imports From Extra-EU	2000	2005	2010	2015	2019	2020
EU27_2020	99.8	101.2	102.1	104.7	105.0	105.6
Index2000	100.0	101.5	102.3	104.9	105.2	105.8
Intra and Extra-EU Imports						
BE	122.3	131.9	132.7	129.5	139.2	136.0
BG	97.5	104.9	104.3	103.9	104.2	99.4
CZ	95.3	97.5	96.5	97.8	97.5	101.2
DK	-96.5	-114.2	-48.3	5.9	49.6	60.3
DE	96.2	99.3	99.1	98.7	98.5	97.8
EE	117.3	113.2	130.2	188.9	547.2	-1580.2
IE	100.6	101.2	99.2	107.0	100.7	105.8
EL	123.4	113.6	117.1	121.1	116.1	124.5
ES	110.5	112.6	113.7	116.7	114.8	113.2
FR	102.7	102.1	100.6	100.7	100.6	100.0
HR	61.3	79.8	80.8	81.5	76.9	74.2
IT	97.9	94.3	97.6	92.4	97.1	93.5
CY	108.4	114.3	111.5	114.5	111.6	116.0
LV	95.5	120.1	110.0	120.6	119.2	120.9
LT	105.2	98.4	104.0	103.6	107.3	109.2
LU	102.1	99.4	99.3	99.3	100.4	100.0
HU	75.9	82.0	85.3	93.7	86.6	87.1
MT	181.8	170.4	253.3	330.7	548.1	719.1
NL	138.8	139.5	133.4	144.3	139.0	141.7
AT	89.2	92.2	90.6	94.0	95.8	97.6
PL	101.2	99.9	99.0	100.3	98.2	97.9
PT	103.6	106.0	101.1	108.0	106.8	105.0
RO	34.4	38.6	52.7	54.5	65.6	65.0
SI	101.5	102.1	99.9	102.4	109.6	105.3
SK	92.5	97.4	98.4	100.6	101.3	102.0
FI	111.5	103.9	94.2	113.3	98.9	106.4
SE	110.4	117.4	106.3	136.7	127.5	166.9

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

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.3.6 Import Dependency – Crude and NGL* (%)

Imports From Extra-EU	2000	2005	2010	2015	2019	2020
EU27_2020	92.5	93.0	94.4	95.9	96.6	96.2
Index2000	100.0	100.5	102.0	103.7	104.4	104.0
Intra and Extra-EU Imports						
BE	100.2	99.5	99.9	100.0	100.0	100.5
BG	98.7	97.7	99.1	100.5	102.6	99.4
CZ	95.2	99.3	97.5	98.4	98.6	101.7
DK	-120.5	-141.3	-68.8	-4.9	36.0	50.7
DE	93.8	97.3	97.3	97.1	98.3	98.3
EE	0.0	0.0	0.0	0.0	0.0	0.0
IE	89.8	98.9	101.6	108.2	100.9	102.3
EL	99.6	95.2	99.6	101.5	98.1	102.0
ES	100.6	100.1	99.3	99.5	101.0	99.5
FR	98.5	98.2	98.2	98.8	98.4	97.9
HR	72.1	78.9	82.3	79.6	71.1	68.0
IT	95.1	94.0	94.5	92.2	93.9	90.2
CY	98.5	0.0	0.0	0.0	0.0	0.0
LV	0.0	0.0	0.0	0.0	0.0	0.0
LT	94.5	95.3	99.0	99.5	100.8	99.4
LU	0.0	0.0	0.0	0.0	0.0	0.0
HU	78.5	81.8	85.3	91.4	84.6	86.0
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	96.7	96.7	97.6	98.0	99.9	98.1
AT	86.9	88.8	86.5	91.1	94.0	92.9
PL	99.2	97.4	98.4	100.5	96.7	96.6
PT	99.0	100.2	98.8	100.9	100.4	98.3
RO	43.5	62.0	57.2	63.0	72.0	66.9
SI	87.2	0.0	0.0	0.0	0.0	0.0
SK	97.6	97.8	99.9	99.3	100.5	101.4
FI	101.5	97.5	101.1	104.2	99.0	99.7
SE	100.6	100.4	99.0	103.6	100.0	106.1

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

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.3.7 Import Dependency – Natural Gas *

(%)

Imports From Extra-EU	2000	2005	2010	2015	2019	2020
EU27_2020	65.7	69.0	67.8	74.5	89.7	83.6
Index2000	100.0	105.0	103.1	113.3	136.4	127.3
Intra and Extra-EU Imports						
BE	99.3	100.5	100.3	99.3	101.9	99.2
BG	93.5	87.7	92.6	97.0	100.4	96.4
CZ	99.8	97.8	84.8	95.1	109.8	86.0
DK	-64.8	-113.9	-68.3	-48.2	-7.2	37.4
DE	79.1	79.6	81.2	90.1	100.1	89.1
EE	100.0	100.0	100.0	100.0	105.4	106.3
IE	72.1	86.1	95.3	96.3	53.0	63.7
EL	99.1	99.1	99.9	99.9	99.0	100.7
ES	101.6	101.4	99.4	96.9	101.6	97.5
FR	100.0	99.3	92.8	98.5	104.5	94.7
HR	41.0	23.7	18.1	27.1	66.4	68.8
IT	81.1	84.7	90.5	90.4	95.1	92.8
CY	0.0	0.0	0.0	0.0	0.0	0.0
LV	101.9	105.6	61.8	98.6	100.0	100.1
LT	100.0	100.7	99.7	99.7	100.0	98.9
LU	100.0	100.0	100.0	100.0	100.0	100.0
HU	75.4	81.1	78.7	69.7	115.2	75.6
MT	0.0	0.0	0.0	0.0	103.6	96.2
NL	-49.1	-59.3	-60.4	-36.7	26.0	45.2
AT	80.6	88.5	75.3	72.6	122.8	73.2
PL	66.3	69.7	69.3	72.2	82.4	78.3
PT	100.3	103.8	100.4	100.4	99.9	99.3
RO	19.8	30.1	16.8	1.8	23.2	16.6
SI	99.3	99.6	99.3	99.6	99.2	99.4
SK	98.8	97.5	99.9	95.1	136.6	88.1
FI	100.0	100.0	100.0	100.0	100.6	100.4
SE	100.0	100.0	100.0	100.0	101.8	101.6

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

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

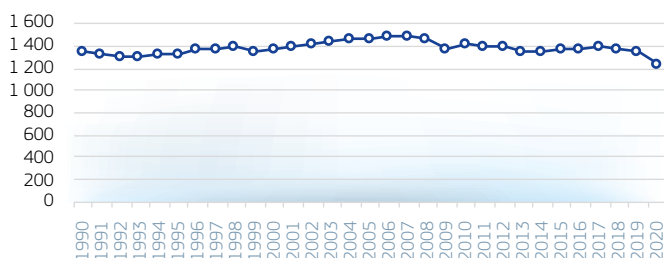
2.4 Energy Transformation

2.4.1 Transformation Input – All Fuels

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	1383.7	1471.7	1414.5	1373.3	1351.2	1224.2
Index2000	100%	106%	102%	99%	98%	88%
BE	68.63	67.67	67.88	60.50	65.34	55.90
BG	18.65	20.99	18.84	19.72	19.46	16.39
CZ	31.82	37.02	37.33	34.33	34.70	31.26
DK	18.06	16.31	16.61	17.83	16.83	16.19
DE	292.34	313.34	291.21	280.71	260.47	242.87
EE	3.63	4.07	4.93	4.56	4.20	3.73
IE	8.59	8.85	8.53	8.55	7.98	8.25
EL	35.80	35.59	35.28	40.12	41.77	40.40
ES	115.16	126.81	121.90	133.10	130.89	114.54
FR	234.01	242.48	227.74	213.12	197.08	169.15
HR	7.72	7.88	6.78	5.40	5.17	4.97
IT	163.61	176.39	161.45	136.66	138.58	121.21
CY	2.08	1.09	1.21	0.97	1.06	1.01
LV	1.39	1.66	1.49	1.39	1.58	1.43
LT	9.43	14.78	12.53	11.86	12.17	10.73
LU	0.20	0.69	0.74	0.43	0.35	0.43
HU	19.87	21.66	23.01	18.92	18.23	18.03
MT	0.50	0.61	0.58	0.28	0.34	0.38
NL	104.43	111.74	113.01	117.66	129.72	116.39
AT	20.35	22.52	22.53	23.10	23.70	22.17
PL	72.87	72.58	79.74	83.18	81.21	76.38
PT	20.97	22.98	20.73	25.26	22.24	21.03
RO	29.11	32.20	26.03	26.06	26.22	23.39
SI	3.11	3.41	3.41	2.95	3.14	3.30
SK	16.91	18.73	17.34	17.09	15.61	15.75
FI	32.41	34.11	38.80	32.92	35.80	33.43
SE	52.05	55.51	54.86	56.67	57.38	55.51

TRANSFORMATION INPUT – ALL FUELS – 1990-2020 (Mtoe)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.4.2 Transformation Input by Fuel

	2020						
	Transformation Input	Solid fossil fuels	Oil and petroleum products	Natural gas	Nuclear	Renewables and biofuels	Waste, non-renewable
Mtoe							
EU27_2020	1 224.2	143.8	624.7	104.6	175.2	151.2	9.2
Share - %	100.0 %	11.7 %	51.0 %	8.5 %	14.3 %	12.3 %	0.8 %
BE	55.90	2.55	35.84	4.12	8.37	3.49	0.48
BG	16.39	4.00	5.69	1.04	4.33	1.17	0.01
CZ	31.26	12.32	6.71	1.87	7.50	2.14	0.07
DK	16.19	0.69	9.67	0.50	0.00	4.84	0.41
DE	242.87	48.80	119.92	19.21	16.58	32.58	2.87
EE	3.73	0.00	0.05	0.09	0.00	0.83	0.03
IE	8.25	0.19	3.57	2.61	0.00	1.44	0.09
EL	40.40	1.66	33.66	3.20	0.00	1.86	0.01
ES	114.54	2.94	70.88	10.66	15.17	14.00	0.35
FR	169.15	6.17	44.32	6.58	92.21	17.58	1.24
HR	4.97	0.26	2.80	0.83	0.00	1.07	0.00
IT	121.21	5.50	69.98	24.22	0.00	19.96	0.88
CY	1.01	0.00	0.94	0.00	0.00	0.07	0.00
LV	1.43	0.00	0.00	0.56	0.00	0.86	0.00
LT	10.73	0.00	8.90	0.39	0.00	1.00	0.06
LU	0.43	0.00	0.00	0.06	0.00	0.22	0.02
HU	18.03	2.14	8.01	2.39	4.05	1.20	0.10
MT	0.38	0.00	0.02	0.32	0.00	0.04	0.00
NL	116.39	5.22	91.29	11.37	0.96	5.82	0.75
AT	22.17	3.04	9.17	2.09	0.00	6.66	0.38
PL	76.38	36.91	29.79	3.69	0.00	4.88	0.24
PT	21.03	0.56	13.13	3.37	0.00	3.71	0.09
RO	23.39	2.97	11.99	2.75	2.89	2.71	0.00
SI	3.30	0.97	0.00	0.15	1.50	0.63	0.01
SK	15.75	2.74	6.57	1.12	4.04	1.18	0.02
FI	33.43	2.26	16.77	1.31	5.55	6.07	0.24
SE	55.51	1.96	24.98	0.04	12.03	15.19	0.90

2.4.3 Transformation Input by Sector

Mtoe	2020					
	Total, All Sectors	Electricity producers	Heat producers	CHP producers	Refineries, Petroleum and sub-products	Other transformation input
EU27_2020	1 224.2	371.1	17.5	141.7	612.0	81.9
Share - %	100.0%	30.3%	1.4%	11.6%	50.0%	6.7%
BE	55.90	13.46	0.01	2.98	35.83	3.63
BG	16.39	8.00	0.29	1.58	5.63	0.88
CZ	31.26	14.29	0.69	5.26	6.67	4.35
DK	16.19	1.51	0.89	3.52	9.59	0.67
DE	242.87	73.70	2.98	24.80	118.52	22.86
EE	3.73	0.91	0.27	0.66	0.04	1.85
IE	8.25	4.20	0.00	0.30	3.46	0.30
EL	40.40	5.82	0.00	1.80	32.50	0.28
ES	114.54	38.37	0.00	4.15	68.72	3.30
FR	169.15	109.10	2.00	6.01	43.14	8.89
HR	4.97	0.96	0.05	1.03	2.79	0.15
IT	121.21	28.29	0.44	22.28	66.48	3.73
CY	1.01	0.98	0.00	0.01	0.00	0.01
LV	1.43	0.24	0.42	0.71	0.00	0.06
LT	10.73	0.17	0.56	0.86	8.87	0.27
LU	0.43	0.05	0.01	0.24	0.00	0.13
HU	18.03	5.27	0.73	2.47	8.00	1.57
MT	0.38	0.36	0.00	0.00	0.00	0.01
NL	116.39	10.11	0.80	9.60	90.82	5.05
AT	22.17	6.10	0.96	2.59	8.95	3.56
PL	76.38	2.84	2.71	31.01	29.39	10.42
PT	21.03	5.85	0.00	1.69	12.89	0.61
RO	23.39	8.01	0.43	2.38	11.76	0.82
SI	3.30	2.74	0.05	0.39	0.00	0.12
SK	15.75	0.79	0.27	5.68	6.50	2.50
FI	33.43	8.25	1.80	4.49	16.54	2.35
SE	55.51	20.72	1.16	5.25	24.92	3.47

source: Eurostat April 2022

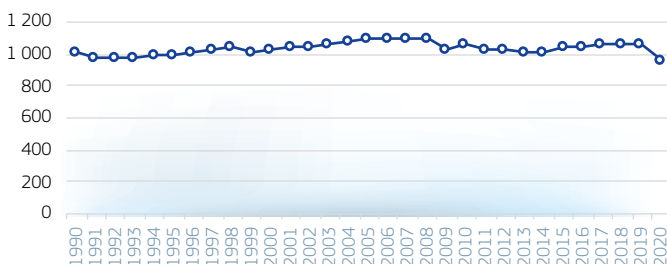
Methodology and Notes: [see appendices](#)

2.4.4 Transformation Output – All Fuels

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	1 031.9	1 090.4	1 059.7	1 045.4	1 056.7	961.6
Index2000	100%	106%	103%	101%	102%	93%
BE	54.28	53.91	54.67	51.92	54.08	46.51
BG	11.62	13.30	12.01	12.91	12.75	10.41
CZ	19.91	22.89	23.27	21.58	22.16	19.77
DK	15.59	14.06	14.18	16.83	16.36	15.71
DE	210.06	227.68	210.02	207.63	202.79	191.72
EE	1.84	2.15	2.53	2.54	2.62	2.46
IE	5.62	5.89	5.98	6.47	6.14	6.50
EL	29.13	28.38	28.76	35.62	37.85	37.05
ES	87.21	96.39	96.91	105.39	107.03	93.14
FR	154.62	151.28	139.32	126.18	117.48	98.70
HR	7.01	7.07	6.14	4.85	4.58	4.33
IT	129.85	141.64	131.20	111.22	115.34	99.35
CY	1.47	0.38	0.46	0.39	0.45	0.43
LV	1.18	1.47	1.29	1.12	1.28	1.19
LT	7.38	12.36	11.86	11.46	11.93	10.34
LU	0.11	0.43	0.47	0.30	0.26	0.33
HU	14.07	15.67	17.08	13.98	13.36	13.25
MT	0.16	0.19	0.18	0.12	0.19	0.20
NL	93.36	99.32	100.58	106.39	120.12	107.53
AT	17.16	18.53	18.59	19.51	20.37	19.18
PL	49.29	49.66	57.00	60.84	61.42	58.29
PT	17.04	18.73	17.75	21.36	19.02	18.08
RO	22.32	25.96	20.64	20.65	21.15	19.11
SI	1.57	1.54	1.69	1.53	1.69	1.78
SK	12.09	13.68	12.72	12.48	11.30	11.49
FI	25.53	26.94	31.14	26.95	30.23	28.29
SE	42.47	40.91	43.28	45.20	44.72	46.48

TRANSFORMATION OUTPUT – ALL FUELS –
1990-2020 (Mtoe)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.4.5 Transformation Output by Fuel

Mtoe	2020						
	Transformation Output	Solid fossil fuels	Oil and petroleum products	Natural gas	Renewables and biofuels	Electricity	Heat
EU27_2020	961.6	24.2	611.7	0.8	16.1	239.6	53.7
Share - %	100.0%	2.5%	63.6%	0.1%	1.7%	24.9%	5.6%
BE	46.51	0.80	35.90	0.00	0.70	7.69	0.72
BG	10.41	0.19	5.60	0.00	0.18	3.51	0.93
CZ	19.77	1.73	6.83	0.00	0.39	7.01	2.70
DK	15.71	0.00	9.59	0.34	0.25	2.47	3.06
DE	191.72	8.03	116.03	0.00	3.47	49.24	10.20
EE	2.46	0.01	1.14	0.00	0.00	0.51	0.51
IE	6.50	0.00	3.54	0.00	0.12	2.78	0.00
EL	37.05	0.00	32.61	0.00	0.24	4.15	0.05
ES	93.14	0.38	68.30	0.01	1.38	22.65	0.00
FR	98.70	1.64	42.82	0.17	2.91	45.72	3.94
HR	4.33	0.00	2.81	0.00	0.05	1.15	0.33
IT	99.35	0.89	66.98	0.08	1.27	24.12	5.47
CY	0.43	0.00	0.00	0.00	0.01	0.42	0.00
LV	1.19	0.00	0.00	0.00	0.06	0.49	0.65
LT	10.34	0.00	8.84	0.00	0.12	0.47	0.91
LU	0.33	0.00	0.00	0.01	0.00	0.19	0.13
HU	13.25	0.62	7.98	0.00	0.18	3.00	1.16
MT	0.20	0.00	0.00	0.00	0.01	0.18	0.00
NL	107.53	1.35	90.67	0.19	1.03	10.62	2.55
AT	19.18	0.95	8.82	0.01	0.22	6.24	2.02
PL	58.29	5.49	29.46	0.00	0.97	13.59	6.83
PT	18.08	0.00	12.79	0.00	0.24	4.56	0.49
RO	19.11	0.00	12.23	0.00	0.43	4.81	1.41
SI	1.78	0.00	0.00	0.00	0.09	1.48	0.22
SK	11.49	0.82	6.65	0.00	0.18	2.48	0.73
FI	28.29	0.56	16.83	0.01	0.40	5.93	4.10
SE	46.48	0.72	25.27	0.00	1.26	14.09	4.62

2.4.6 Transformation Output by Sector

	2020					
	Total, All Sectors	Electricity producers	Heat producers	CHP producers	Refineries, Petroleum and sub-products	Other transformation output
Mtoe						
EU27_2020	961.6	184.1	14.2	89.2	608.4	65.6
Share - %	100.0%	19.1%	1.5%	9.3%	63.3%	6.8%
BE	46.51	6.15	0.00	1.89	35.75	2.71
BG	10.41	3.00	0.19	1.14	5.38	0.69
CZ	19.77	5.52	0.61	3.42	6.83	3.40
DK	15.71	1.51	0.84	2.97	9.59	0.81
DE	191.72	38.53	2.43	17.61	116.03	17.12
EE	2.46	0.36	0.20	0.46	0.04	1.40
IE	6.50	2.57	0.00	0.18	3.49	0.25
EL	37.05	3.53	0.00	0.66	32.61	0.24
ES	93.14	19.66	0.00	2.67	68.30	2.50
FR	98.70	43.41	1.63	4.06	42.82	6.77
HR	4.33	0.76	0.04	0.67	2.74	0.12
IT	99.35	15.27	0.37	13.74	66.98	2.99
CY	0.43	0.41	0.00	0.01	0.00	0.01
LV	1.19	0.24	0.37	0.53	0.00	0.06
LT	10.34	0.17	0.42	0.51	8.84	0.40
LU	0.33	0.05	0.01	0.18	0.00	0.09
HU	13.25	2.12	0.61	1.36	7.94	1.23
MT	0.20	0.18	0.00	0.00	0.00	0.01
NL	107.53	6.29	0.44	6.10	90.67	4.03
AT	19.18	5.10	0.81	2.04	8.82	2.40
PL	58.29	2.14	2.36	15.82	28.90	9.07
PT	18.08	3.81	0.00	1.11	12.63	0.53
RO	19.11	4.17	0.37	1.66	12.13	0.79
SI	1.78	1.35	0.04	0.28	0.00	0.11
SK	11.49	0.63	0.23	2.33	6.36	1.95
FI	28.29	4.30	1.46	3.73	16.54	2.26
SE	46.48	12.91	0.81	4.06	25.01	3.69

2.5 Final Energy

2.5.1 Available for Final Consumption

TOTAL

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	1022.9	1091.9	1073.5	993.8	1032.8	976.4
Index2000	100%	107%	105%	97%	101%	95%
BE	40.82	41.61	43.01	40.99	40.07	38.21
BG	9.64	10.51	9.24	10.07	10.32	10.29
CZ	26.42	28.19	27.75	25.91	27.16	26.00
DK	14.32	14.67	14.97	13.46	13.92	13.49
DE	234.79	235.94	233.13	220.83	225.46	214.64
EE	2.52	3.18	3.14	2.45	2.84	2.95
IE	10.37	11.13	11.27	10.85	11.57	11.08
EL	18.46	20.82	19.16	16.55	16.42	14.56
ES	85.40	101.80	91.44	78.98	86.29	77.75
FR	156.74	167.10	161.69	157.35	155.46	141.64
HR	6.59	7.84	7.73	7.02	7.29	6.96
IT	128.77	139.59	131.73	117.63	118.66	109.28
CY	1.47	1.49	1.69	1.44	1.66	1.57
LV	3.26	4.05	4.06	3.79	3.97	3.87
LT	4.25	5.34	5.42	5.90	6.65	6.43
LU	3.24	4.10	3.93	3.57	3.83	3.29
HU	17.22	20.33	18.86	18.54	19.97	19.71
MT	0.32	0.40	0.42	0.46	0.56	0.51
NL	58.80	62.10	64.82	55.20	56.36	55.33
AT	23.58	27.35	27.77	27.28	28.35	26.90
PL	57.13	61.70	70.38	65.17	77.75	77.13
PT	19.54	20.94	18.98	16.85	17.59	16.38
RO	24.12	25.96	24.80	22.81	25.07	25.08
SI	4.79	5.44	5.28	4.85	5.04	4.58
SK	11.68	11.69	11.47	10.02	11.28	10.82
FI	23.73	25.26	26.30	24.05	25.73	24.77
SE	34.91	33.36	35.07	31.86	33.59	33.15

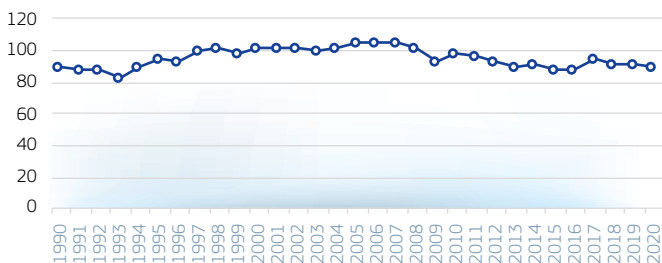
2.5.2 Final Non-Energy Consumption

TOTAL

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	101.4	104.9	98.3	88.2	90.7	89.6
Index2000	100%	103%	97%	87%	89%	88%
BE	7.00	7.49	7.05	7.68	7.25	7.10
BG	0.98	0.85	0.42	0.60	0.46	0.47
CZ	2.14	3.01	2.88	2.50	2.97	2.48
DK	0.30	0.29	0.26	0.25	0.20	0.23
DE	25.30	24.66	22.58	21.26	21.65	21.03
EE	0.15	0.22	0.09	0.09	0.12	0.18
IE	0.68	0.52	0.34	0.22	0.24	0.23
EL	0.73	0.77	1.11	0.70	0.92	0.82
ES	9.49	8.43	7.11	4.35	5.35	5.80
FR	16.95	16.08	13.93	13.88	13.46	12.55
HR	0.66	0.68	0.60	0.53	0.57	0.53
IT	8.43	8.61	9.56	6.61	7.04	6.80
CY	0.09	0.07	0.09	0.02	0.04	0.04
LV	0.07	0.10	0.07	0.11	0.09	0.10
LT	0.66	0.73	0.66	1.12	1.20	1.15
LU	0.05	0.03	0.03	0.03	0.04	0.03
HU	1.59	2.17	1.97	1.91	2.12	2.25
MT	0.00	0.02	0.01	0.01	0.02	0.01
NL	11.33	13.58	14.37	12.15	12.07	12.90
AT	1.72	1.59	1.81	1.80	2.12	2.08
PL	4.37	4.60	4.97	5.63	5.60	5.79
PT	2.42	2.59	1.73	1.34	1.15	1.13
RO	1.89	2.63	2.06	1.12	1.14	1.29
SI	0.24	0.31	0.21	0.13	0.16	0.14
SK	1.38	1.28	1.05	1.05	1.00	1.22
FI	1.04	1.15	1.22	1.33	1.38	1.49
SE	1.75	2.42	2.12	1.78	2.30	1.71

FINAL NON-ENERGY CONSUMPTION – TOTAL –
1990-2020 (Mtoe)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

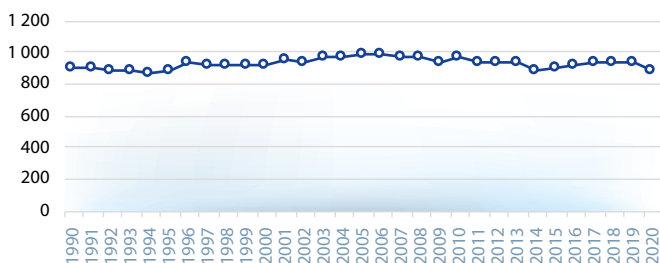
2.5.3 Final Energy Consumption

TOTAL

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	926.0	986.6	973.1	909.4	937.9	885.8
Index2000	100%	107%	105%	98%	101%	96%
BE	33.64	34.19	35.40	33.15	32.58	31.04
BG	8.59	9.60	8.70	9.39	9.71	9.51
CZ	23.99	24.89	24.12	23.09	24.22	23.75
DK	14.02	14.73	14.85	13.46	13.55	13.13
DE	207.17	207.29	209.92	200.03	200.80	193.62
EE	2.41	2.81	2.88	2.75	2.82	2.73
IE	10.19	11.80	11.19	10.51	11.32	10.84
EL	17.91	20.23	18.37	15.74	15.40	14.48
ES	76.34	93.71	85.49	75.94	81.51	72.32
FR	145.13	150.75	146.26	140.87	139.13	128.17
HR	5.94	7.16	7.13	6.48	6.73	6.43
IT	119.74	131.51	123.05	112.11	113.12	103.06
CY	1.37	1.53	1.65	1.42	1.63	1.53
LV	3.23	3.96	4.00	3.68	3.92	3.80
LT	3.74	4.62	4.76	4.78	5.46	5.28
LU	3.18	4.05	3.90	3.53	3.79	3.27
HU	15.64	18.16	16.88	16.83	17.97	17.60
MT	0.32	0.38	0.40	0.46	0.54	0.50
NL	47.52	48.96	50.75	43.50	44.32	42.26
AT	21.81	25.73	25.96	25.48	26.23	24.82
PL	53.56	57.48	65.26	60.86	71.89	70.25
PT	17.21	18.26	17.27	15.55	16.36	15.22
RO	21.95	23.59	22.04	21.60	23.71	23.47
SI	4.54	5.11	5.05	4.72	4.86	4.43
SK	9.93	10.40	10.37	8.94	10.25	9.61
FI	23.28	24.01	25.03	23.05	24.73	23.19
SE	33.67	31.71	32.47	31.51	31.30	31.45

FINAL ENERGY CONSUMPTION – TOTAL –
1990-2020 (Mtoe)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.5.3 Final Energy Consumption

BY FUEL

Mtoe	2020							
	Oil and petroleum products	Natural gas	Renewables and biofuels	Solid fossil fuels	Waste, non-renewable	Electricity	Heat	Manufactured gases, peat & products
EU27_2020	310.3	193.9	104.2	19.0	5.0	205.1	44.0	4.3
Share - %	35.0%	21.9%	11.8%	2.1%	0.6%	23.2%	5.0%	0.5%
BE	11.88	9.09	2.13	0.37	0.16	6.80	0.47	0.1
BG	3.42	1.18	1.55	0.29	0.06	2.46	0.55	0.0
CZ	6.36	5.16	3.38	1.41	0.30	4.90	1.98	0.3
DK	4.72	1.51	1.63	0.11	0.04	2.69	2.44	0.0
DE	67.60	51.81	17.31	3.42	1.31	41.26	8.99	1.9
EE	0.91	0.25	0.48	0.01	0.00	0.62	0.46	0.0
IE	5.45	1.95	0.48	0.25	0.05	2.46	0.00	0.2
EL	7.35	1.10	1.73	0.17	0.00	4.09	0.05	0.0
ES	32.56	13.82	6.48	0.34	0.19	18.89	0.00	0.1
FR	47.57	26.47	13.95	0.84	0.39	35.37	3.58	0.0
HR	2.45	1.10	1.17	0.10	0.04	1.31	0.25	0.0
IT	32.23	31.81	10.66	0.41	0.31	23.66	3.88	0.1
CY	0.88	0.00	0.23	0.01	0.03	0.38	0.00	0.0
LV	1.28	0.32	1.00	0.02	0.05	0.56	0.55	0.0
LT	2.15	0.58	0.78	0.13	0.00	0.89	0.74	0.0
LU	1.82	0.56	0.18	0.04	0.02	0.53	0.12	0.0
HU	5.27	5.69	1.92	0.16	0.12	3.43	0.99	0.0
MT	0.26	0.00	0.04	0.00	0.00	0.20	0.00	0.0
NL	12.68	15.90	1.98	0.17	0.04	9.38	1.92	0.2
AT	8.45	4.65	4.06	0.34	0.25	5.26	1.72	0.1
PL	24.38	9.24	9.04	8.96	0.83	11.81	5.60	0.4
PT	6.26	1.74	2.91	0.01	0.10	3.98	0.23	0.0
RO	7.93	5.85	3.85	0.60	0.28	3.79	1.02	0.2
SI	1.86	0.58	0.63	0.03	0.05	1.11	0.17	0.0
SK	2.58	2.43	1.15	0.36	0.22	2.05	0.55	0.3
FI	5.50	0.69	6.31	0.11	0.05	6.61	3.64	0.3
SE	6.51	0.47	9.24	0.30	0.09	10.58	4.08	0.2

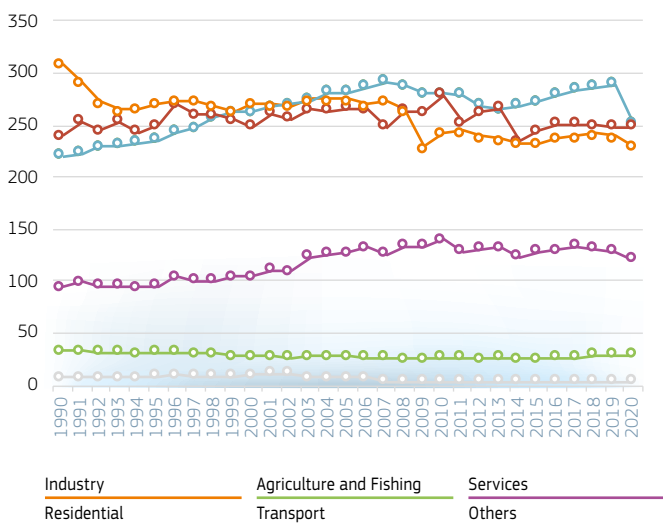
2.5.3 Final Energy Consumption

BY SECTOR

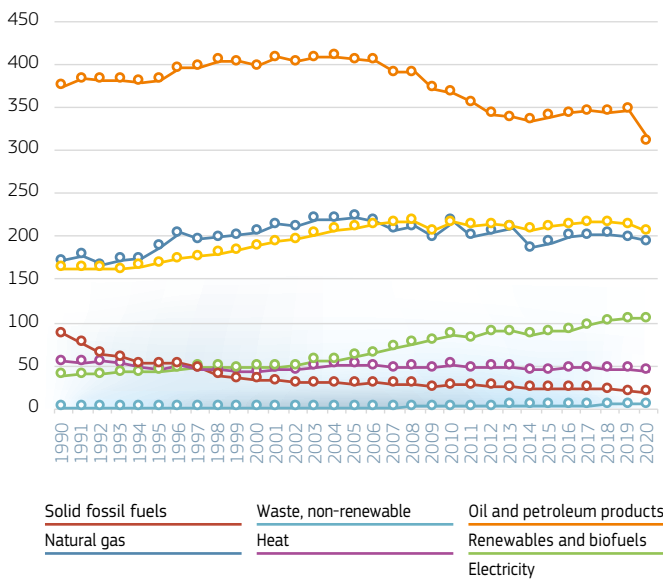
	2020					
	Industry	Transport	Residential	Services	Agriculture and Fishing	Others
Mtoe						
EU27_2020	231.2	252.0	248.2	121.4	29.3	3.6
Share - %	26.1%	28.4%	28.0%	13.7%	3.3%	0.4%
BE	10.02	7.76	7.93	4.47	0.81	0.04
BG	2.65	3.22	2.38	1.08	0.19	0.00
CZ	6.55	6.38	7.15	2.99	0.64	0.05
DK	2.30	3.94	4.32	1.82	0.68	0.07
DE	54.19	50.97	57.99	26.77	3.65	0.05
EE	0.41	0.79	0.94	0.47	0.11	0.00
IE	2.17	3.48	3.12	1.83	0.24	0.00
EL	2.52	5.14	4.29	1.90	0.29	0.33
ES	18.84	26.16	14.56	9.45	3.00	0.31
FR	25.80	38.22	38.71	20.34	4.50	0.60
HR	1.17	1.97	2.28	0.76	0.26	0.00
IT	23.86	28.98	30.66	16.56	2.96	0.04
CY	0.24	0.62	0.36	0.24	0.05	0.02
LV	0.87	1.05	1.12	0.55	0.21	0.00
LT	1.02	2.13	1.43	0.58	0.11	0.01
LU	0.58	1.67	0.50	0.49	0.02	0.00
HU	4.43	4.46	5.97	2.00	0.71	0.04
MT	0.06	0.20	0.10	0.12	0.01	0.00
NL	13.12	9.30	9.31	6.47	3.98	0.08
AT	7.32	7.73	6.68	2.57	0.51	0.00
PL	15.92	21.78	21.10	7.58	3.87	0.00
PT	4.50	5.01	3.01	2.16	0.50	0.03
RO	6.44	6.46	8.01	1.83	0.53	0.20
SI	1.26	1.58	1.07	0.42	0.07	0.03
SK	3.14	2.49	2.74	1.11	0.13	0.00
FI	10.25	3.88	5.29	2.81	0.70	0.26
SE	11.56	6.62	7.20	4.01	0.60	1.46

2.5.3 Final Energy Consumption

BY SECTOR – EU27_2020 – 1990-2020 (Mtoe)



FINAL ENERGY CONSUMPTION – BY FUEL – EU27_2020 – 1990-2020 (Mtoe)



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.6 Electricity

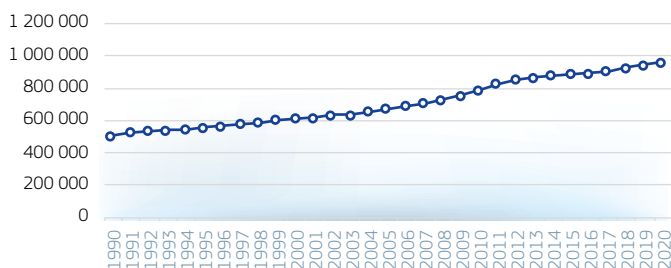
2.6.1 Installed Electricity Capacity

TOTAL

MW	2000	2005	2010	2015	2019	2020
EU27_2020*	613221	675657	790216	889720	946587	962601
Index2000	100%	110%	129%	145%	154%	157%
BE	15685	16096	18796	21166	23926	25702
BG	11085	12260	10031	10913	11233	10989
CZ	15323	17406	20073	21866	22012	21402
DK	12316	13036	13438	14002	15135	15489
DE	118884	128497	162924	203257	231489	233747
EE	2800	2559	2751	2857	2746	2738
IE	4709	6102	8143	9680	11131	11244
EL	10904	13306	15312	18942	20478	20795
ES	53922	76566	101740	106758	109670	108421
FR	114518	115730	124138	132218	136284	136637
HR	2067	3867	4103	4768	4712	4662
IT	75510	85498	106610	116964	116435	116383
CY	988	1125	1560	1756	1819	1897
LV	2092	2166	2557	2931	2938	2944
LT	5716	4556	3570	3587	3378	3491
LU	1217	1682	1712	2024	1775	1808
HU	8282	8586	8993	8634	9994	10708
MT	0	0	572	668	750	783
NL	21062	21800	26688	33877	37135	42233
AT	17802	19102	21345	24741	25902	26312
PL	30559	32257	33360	37327	43440	49368
PT	10908	13374	18932	19625	21575	21655
RO	16820	18951	19912	23830	20899	20585
SI	2614	2992	3193	3358	3832	3929
SK	7454	8257	7873	7782	7724	7707
FI	16260	16468	15438	16500	17352	17301
SE	33724	33419	36452	39691	42824	43672

INSTALLED ELECTRICITY CAPACITY – TOTAL – 1990-2020 (MW)

EU27_2020



* Data for EU-27 is not completely available for period 1990-2004

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.6.1 Installed Electricity Capacity

BY FUEL

MW	2020						
	Installed Electricity Capacity	Combustible Fuels	Wind	Hydro	Nuclear	Solar	Others
EU27_2020	962601	388223	176985	150771	106008	138443	2171
Share - %	100.0%	40.3%	18.4%	15.7%	11.0%	14.4%	0.2%
BE	25702	8086	4681	1416	5942	5575	3
BG	10989	3806	703	3376	2006	1097	0
CZ	21402	12384	339	2265	4290	2123	0
DK	15489	7918	6259	7	0	1304	0
DE	233747	98311	62188	10792	8113	53721	622
EE	2738	2205	317	8	0	208	0
IE	11244	6316	4307	529	0	93	0
EL	20795	9971	4119	3417	0	3288	0
ES	108421	41719	26819	20117	7117	12589	59
FR	136637	19791	17484	25712	61400	12022	228
HR	4662	1543	801	2200	0	109	10
IT	116383	60106	10871	22695	0	21650	1062
CY	1897	1510	158	0	0	229	0
LV	2944	1274	78	1586	0	5	0
LT	3491	1885	540	877	0	164	25
LU	1808	138	153	1331	0	187	0
HU	10708	6145	321	58	2013	2131	40
MT	783	595	0	0	0	188	0
NL	42233	24066	6619	37	485	10950	76
AT	26312	6437	3226	14605	0	2043	1
PL	49368	36715	6298	2400	0	3955	0
PT	21655	8163	5122	7241	0	1100	29
RO	20585	8126	3013	6652	1411	1383	0
SI	3929	1516	3	1352	688	370	0
SK	7707	2652	4	2529	1971	535	16
FI	17301	8439	2586	3164	2794	318	0
SE	43672	8406	9976	16406	7777	1107	0

2.6.1 Installed Electricity Capacity *

RENEWABLES

MW	2020						
	Total renewables	Hydro	Wind	Solar Thermal	Solar PV	Geothermal	Tide, Wave and Ocean
EU27_2020	467 287	150 771	176 985	2 306	136 137	871	217
Share(%)	100.0%	32.3%	37.9%	0.5%	29.1%	0.2%	0.0%
BE	11 672	1 416	4 681	0	5 575	0	0
BG	5 177	3 376	703	0	1 097	0	0
CZ	4 728	2 265	339	0	2 123	0	0
DK	7 571	7	6 259	0	1 304	0	0
DE	126 741	10 792	62 188	2	53 719	40	0
EE	533	8	317	0	208	0	0
IE	4 928	529	4 307	0	93	0	0
EL	10 824	3 417	4 119	0	3 288	0	0
ES	59 530	20 117	26 819	2 304	10 285	0	5
FR	55 447	25 712	17 484	0	12 022	16	212
HR	3 119	2 200	801	0	109	10	0
IT	55 987	22 695	10 871	0	21 650	772	0
CY	387	0	158	0	229	0	0
LV	1 669	1 586	78	0	5	0	0
LT	1 581	877	540	0	164	0	0
LU	1 670	1 331	153	0	187	0	0
HU	2 513	58	321	0	2 131	3	0
MT	188	0	0	0	188	0	0
NL	17 605	37	6 619	0	10 950	0	0
AT	19 874	14 605	3 226	0	2 043	1	0
PL	12 653	2 400	6 298	0	3 955	0	0
PT	13 492	7 241	5 122	0	1 100	29	0
RO	11 048	6 652	3 013	0	1 383	0	0
SI	1 725	1 352	3	0	370	0	0
SK	3 068	2 529	4	0	535	0	0
FI	6 068	3 164	2 586	0	318	0	0
SE	27 489	16 406	9 976	0	1 107	0	0

* Net maximum capacity

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.6.2 Gross Electricity Generation

TOTAL

TWh	2000	2005	2010	2015	2019	2020
EU27_2020	2656.9	2916.3	2979.7	2900.5	2902.3	2781.3
Index2000	100%	110%	112%	109%	109%	105%
BE	84.01	85.41	94.32	69.24	93.20	88.89
BG	40.92	44.36	46.64	49.20	44.27	40.73
CZ	73.46	82.58	85.82	83.81	86.91	81.40
DK	36.01	36.25	38.86	28.94	29.52	28.73
DE	576.54	620.20	631.04	646.48	605.43	571.09
EE	8.51	10.21	12.96	10.15	7.62	5.96
IE	23.98	25.97	28.35	28.39	30.96	32.29
EL	53.84	60.02	57.40	51.87	48.63	48.25
ES	224.47	289.09	301.37	280.70	273.12	263.21
FR	539.95	576.06	569.15	578.87	570.35	531.20
HR	11.28	13.16	14.90	11.40	12.76	13.39
IT	275.86	302.59	301.28	282.40	293.20	280.03
CY	3.37	4.38	5.32	4.53	5.14	4.85
LV	4.14	4.91	6.63	5.53	6.44	5.72
LT	11.33	14.58	5.50	4.67	3.75	5.31
LU	1.17	4.13	4.59	2.77	1.91	2.23
HU	35.19	35.76	37.37	30.30	34.18	34.79
MT	1.92	2.24	2.11	1.30	2.06	2.14
NL	89.38	99.66	119.12	108.78	120.81	123.04
AT	61.24	66.83	71.11	65.28	74.22	72.56
PL	145.18	156.63	157.58	164.83	163.75	157.95
PT	43.76	46.57	54.09	52.41	53.15	53.08
RO	51.56	59.41	60.98	66.29	59.62	55.93
SI	13.62	15.12	16.44	15.10	16.10	17.19
SK	31.16	31.44	27.82	26.80	28.40	28.81
FI	69.78	70.34	80.36	68.35	68.39	68.72
SE	145.27	158.43	148.55	162.11	168.44	163.83

2.6.2 Gross Electricity Generation

BY FUEL

TWh	2020						
	Gross Electricity Generation	Solid Fossil Fuels, Peat, Oil Shale & Sands	Oil and petroleum products	Natural Gas & Manufactured Gases	Nuclear	Renewables and biofuel	Wastes non-RES
EU27_2020	2 781.3	356.8	48.1	586.2	683.5	1 086.1	20.7
Share - %	100.0%	12.8%	1.7%	21.1%	24.6%	39.0%	0.7%
BE	88.89	0.1	0.12	28.57	34.43	24.46	1.23
BG	40.73	13.5	0.30	2.29	16.63	7.98	0.00
CZ	81.40	31.0	0.09	8.53	30.04	11.64	0.09
DK	28.73	3.1	0.26	1.18	0.00	23.45	0.77
DE	571.09	133.6	4.89	104.95	64.38	256.71	6.58
EE	5.96	2.2	0.02	0.77	0.00	2.85	0.07
IE	32.29	1.6	0.39	16.24	0.00	13.77	0.30
EL	48.25	6.6	4.73	19.23	0.00	17.65	0.04
ES	263.21	5.5	10.70	70.37	58.30	117.27	1.05
FR	531.20	3.1	5.61	37.17	353.83	129.18	2.32
HR	13.39	1.2	0.03	3.44	0.00	8.70	0.00
IT	280.03	13.4	10.04	135.35	0.00	118.86	2.40
CY	4.85	0.0	4.25	0.00	0.00	0.60	0.00
LV	5.72	0.0	0.00	2.08	0.00	3.65	0.00
LT	5.31	0.0	0.12	1.70	0.00	3.35	0.13
LU	2.23	0.0	0.00	0.18	0.00	1.98	0.07
HU	34.79	3.7	0.05	9.21	16.06	5.53	0.24
MT	2.14	0.0	0.06	1.84	0.00	0.24	0.00
NL	123.04	7.6	1.34	75.14	4.09	33.00	1.87
AT	72.56	0.6	0.73	11.75	0.00	58.78	0.74
PL	157.95	107.4	1.75	19.26	0.00	29.05	0.50
PT	53.08	2.4	1.20	17.60	0.00	31.65	0.26
RO	55.93	9.4	0.60	9.58	11.47	24.93	0.00
SI	17.19	4.4	0.01	0.58	6.35	5.87	0.01
SK	28.81	1.9	0.41	3.91	15.44	7.14	0.04
FI	68.72	4.6	0.20	4.61	23.29	35.61	0.45
SE	163.83	0.1	0.14	0.67	49.20	112.19	1.54

source: Eurostat April 2022

Methodology and Notes: see appendices

2.6.2 Gross Electricity Generation

RENEWABLES

TWh	2020							
	Renewables and biofuels	Wind	Hydro	Solar	Solid & liquid biofuels, renewable waste	Biogases	Geothermal	Tide, Wave and Ocean
EU27_2020	1 086.1	397.4	374.5	144.2	106.9	55.8	6.7	0.5
Share - %	100.0%	36.6%	34.5%	13.3%	9.8%	5.1%	0.6%	0.0%
BE	24.46	12.76	1.31	5.11	4.26	1.01	0.00	0.00
BG	7.98	1.48	3.32	1.48	1.47	0.23	0.00	0.00
CZ	11.64	0.70	3.44	2.29	2.62	2.60	0.00	0.00
DK	23.45	16.33	0.02	1.18	5.25	0.68	0.00	0.00
DE	256.71	132.10	24.88	48.64	17.36	33.50	0.23	0.00
EE	2.85	0.84	0.03	0.12	1.82	0.03	0.00	0.00
IE	13.77	11.55	1.22	0.06	0.76	0.18	0.00	0.00
EL	17.65	9.31	3.44	4.45	0.05	0.40	0.00	0.00
ES	117.27	56.44	34.00	20.67	5.26	0.88	0.00	0.03
FR	129.18	39.79	66.53	13.40	6.10	2.74	0.13	0.48
HR	8.70	1.72	5.81	0.10	0.56	0.42	0.09	0.00
IT	118.86	18.76	49.50	24.94	11.47	8.17	6.03	0.00
CY	0.60	0.24	0.00	0.30	0.00	0.06	0.00	0.00
LV	3.65	0.18	2.60	0.00	0.52	0.34	0.00	0.00
LT	3.35	1.55	1.08	0.13	0.44	0.15	0.00	0.00
LU	1.98	0.35	1.09	0.16	0.31	0.06	0.00	0.00
HU	5.53	0.66	0.24	2.46	1.83	0.32	0.02	0.00
MT	0.24	0.00	0.00	0.24	0.00	0.01	0.00	0.00
NL	33.00	15.34	0.05	8.77	7.98	0.87	0.00	0.00
AT	58.78	6.79	45.35	2.04	3.96	0.63	0.00	0.00
PL	29.05	15.80	2.94	1.96	7.12	1.23	0.00	0.00
PT	31.65	12.30	13.63	1.72	3.53	0.26	0.22	0.00
RO	24.93	6.95	15.70	1.73	0.49	0.05	0.00	0.00
SI	5.87	0.01	5.22	0.37	0.16	0.11	0.00	0.00
SK	7.14	0.00	4.80	0.66	1.16	0.51	0.00	0.00
FI	35.61	7.94	15.88	0.22	11.27	0.30	0.00	0.00
SE	112.19	27.53	72.44	1.05	11.17	0.01	0.00	0.00

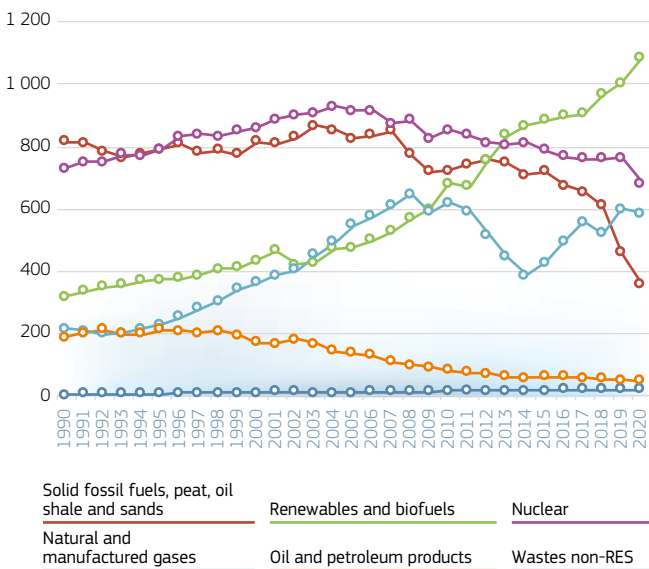
2.6.2 Gross Electricity Generation

EU27_2020 – BY FUEL

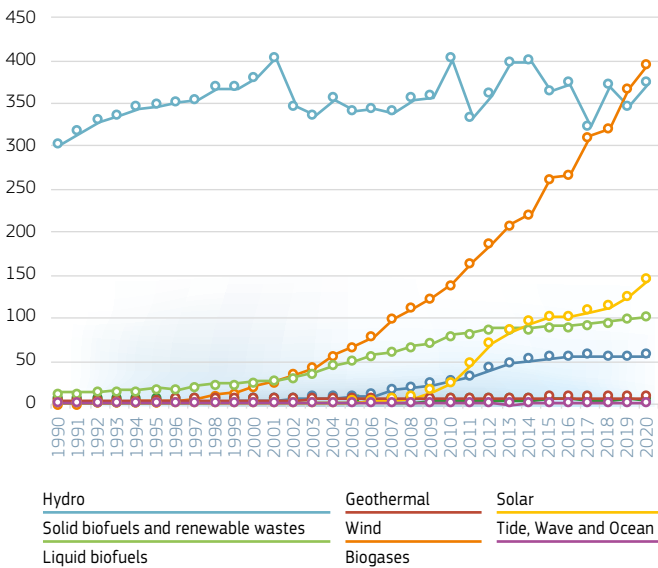
Share of Total (%)	2020					
	Solid fossil fuels, oil shale and sands, peat	Oil and petroleum products	Natural gas and manufactured gases	Nuclear	Renewables and biofuels	Others
1990	35.8	8.3	9.5	32.0	14.1	0.2
1991	35.1	8.8	9.1	32.3	14.5	0.3
1992	34.0	9.2	8.7	32.6	15.2	0.3
1993	33.2	8.6	8.9	33.6	15.5	0.3
1994	33.2	8.6	9.2	32.9	15.8	0.3
1995	32.9	8.8	9.5	32.9	15.5	0.3
1996	32.5	8.4	10.2	33.3	15.2	0.4
1997	31.2	8.1	11.2	33.5	15.5	0.4
1998	30.8	8.2	11.9	32.6	16.0	0.4
1999	29.9	7.6	13.3	32.8	16.0	0.4
2000	30.6	6.5	13.7	32.4	16.4	0.4
2001	29.6	6.2	14.1	32.5	17.0	0.5
2002	30.2	6.6	14.6	32.7	15.4	0.5
2003	30.6	5.9	16.0	32.0	15.1	0.3
2004	29.4	5.0	17.0	32.0	16.3	0.4
2005	28.3	4.7	18.8	31.4	16.4	0.4
2006	28.1	4.4	19.4	30.8	16.8	0.4
2007	28.5	3.7	20.4	29.2	17.7	0.5
2008	25.9	3.4	21.6	29.5	19.0	0.5
2009	25.3	3.3	20.8	29.0	21.1	0.6
2010	24.2	2.8	20.9	28.7	22.9	0.6
2011	25.3	2.5	20.1	28.5	22.8	0.6
2012	25.9	2.5	17.6	27.7	25.8	0.6
2013	25.6	2.2	15.3	27.6	28.7	0.6
2014	24.8	2.1	13.6	28.4	30.3	0.7
2015	24.8	2.2	14.8	27.1	30.5	0.7
2016	23.1	2.1	17.1	26.3	30.8	0.7
2017	22.1	2.0	18.9	25.7	30.6	0.7
2018	20.8	1.9	17.8	25.9	32.9	0.7
2019	15.9	1.8	20.7	26.4	34.6	0.7
2020	12.8	1.7	21.1	24.6	39.0	0.7

2.6.2 Gross Electricity Generation

EU27_2020 – BY FUEL – ALL FUELS – 1990-2020 (TWh)



EU27_2020 – BY FUEL – GROSS ELECTRICITY GENERATION, BY FUEL: RENEWABLES – 1990-2020 (TWh)



source: Eurostat April 2022
Methodology and Notes: [see appendices](#)

2.6.3 Market Share of the Largest Electricity Producer

%	2000	2005	2010	2015	2019	2020
BE	91.1	85.0	79.1	48.5	55.2	53.0
BG				32.5	39.0	42.5
CZ	69.2	72.0	73.0	67.7	69.0	71.1
DK	36.0	33.0	46.0	37.2	28.1	27.0
DE	34.0	31.0	28.4	32.0	26.0	25.3
EE	91.0	92.0	89.0	79.8	67.4	52.0
IE	97.0	71.0	34.0	45.0	44.0	44.0
EL	97.0	97.0	85.1	70.7	49.4	40.8
ES	42.4	35.0	24.0	24.5	22.4	19.8
FR	90.2	89.1	86.5	85.7	79.8	77.8
HR		87.0	88.0	77.8	77.8	75.7
IT	46.7	38.6	28.0	27.0	16.0	16.0
CY	99.6	100.0	100.0	100.0	100.0	100.0
LV	95.8	92.7	88.0	57.4	66.6	57.1
LT	72.8	70.3	35.4	22.7	15.5	22.9
LU			85.4	43.8	18.7	17.9
HU	41.3	38.7	42.1	53.1	56.3	55.3
MT	100.0	100.0	100.0	100.0	37.0	37.4
NL					0.0	
AT	32.6				0.0	
PL	19.5	18.5	17.4	17.4	18.4	17.4
PT	58.5	53.9	47.2	42.5	37.7	39.1
RO		36.4	33.6	25.7	26.7	27.8
SI		50.1	56.3	51.3	50.3	50.1
SK	85.1	83.6	80.9	73.1	66.1	64.4
FI	23.3	23.0	26.6	22.3	24.6	24.8
SE	49.5	47.0	42.0	40.6	41.4	38.4

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.7 Solar and wind Energy

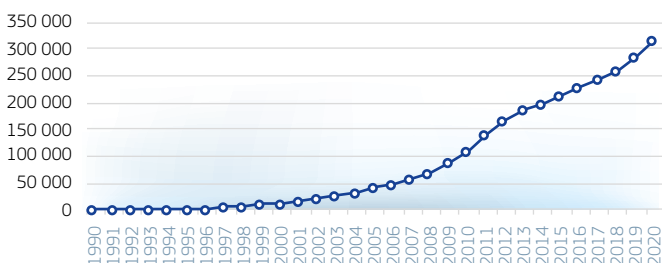
2.7.1 Solar and wind Energy – Cumulative Capacity

TOTAL

MW	2000	2005	2010	2015	2019	2020
EU27_2020	12 472	41 041	109 606	214 856	287 384	315 428
Index2000	100%	329%	879%	1 723%	2 304%	2 529%
BE	14	169	1 919	5 308	8 500	10 256
BG	0	8	513	1 728	1 751	1 800
CZ	1	23	1 940	2 356	2 426	2 462
DK	2 391	3 131	3 809	5 859	7 183	7 564
DE	6 209	20 316	44 961	83 804	109 656	115 909
EE	0	31	108	300	437	525
IE	117	493	1 391	2 454	4 185	4 399
EL	226	492	1 500	4 695	6 423	7 407
ES	2 216	9 970	25 298	29 951	36 733	39 409
FR	45	703	6 956	17 436	27 265	29 506
HR	0	6	79	466	731	910
IT	382	1 669	9 386	28 038	31 545	32 521
CY	0	1	89	234	309	387
LV	2	26	30	68	81	83
LT	0	1	133	505	637	704
LU	14	58	73	180	296	339
HU	0	17	295	501	1 723	2 452
MT	0	0	1	75	155	188
NL	460	1 275	2 327	4 917	11 710	17 568
AT	55	846	1 105	3 426	4 926	5 269
PL	4	121	1 108	4 994	7 377	10 253
PT	84	1 066	3 930	5 384	6 124	6 223
RO	0	1	389	4 456	4 435	4 395
SI	0	0	12	242	281	373
SK	0	5	22	536	594	539
FI	40	86	204	1 022	2 506	2 904
SE	212	526	2 028	5 923	9 395	11 083

SOLAR AND WIND ENERGY – CUMULATIVE CAPACITY – TOTAL – 1990-2020 (MW)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

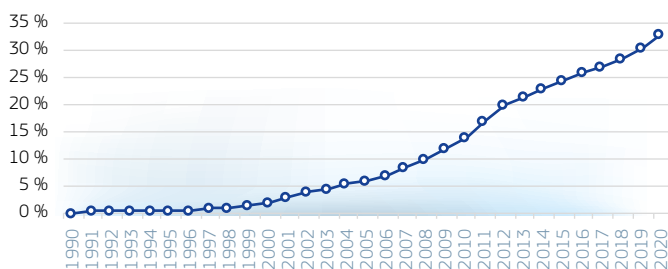
2.7.1 Solar and Wind Energy – Cumulative Capacity

SHARE OF TOTAL INSTALLED ELECTRICITY CAPACITY

%	2000	2005	2010	2015	2019	2020
EU27_2020	2.0	6.1	13.9	24.1	30.4	32.8
BE	0.09	1.05	10.21	25.08	35.53	39.90
BG	0.00	0.07	5.11	15.83	15.59	16.38
CZ	0.01	0.13	9.66	10.77	11.02	11.50
DK	19.41	24.02	28.34	41.85	47.46	48.83
DE	5.22	15.81	27.60	41.23	47.37	49.59
EE	0.00	1.21	3.93	10.50	15.90	19.16
IE	2.47	8.08	17.08	25.35	37.60	39.13
EL	2.07	3.70	9.80	24.79	31.36	35.62
ES	4.11	13.02	24.87	28.06	33.49	36.35
FR	0.04	0.61	5.60	13.19	20.01	21.59
HR	0.00	0.16	1.93	9.77	15.52	19.52
IT	0.51	1.95	8.80	23.97	27.09	27.94
CY	0.00	0.11	5.72	13.31	16.98	20.39
LV	0.10	1.20	1.17	2.33	2.77	2.83
LT	0.00	0.02	3.73	14.08	18.86	20.17
LU	1.15	3.48	4.27	8.90	16.65	18.77
HU	0.00	0.20	3.28	5.80	17.24	22.90
MT	0.00	0.00	0.14	11.21	20.71	24.02
NL	2.18	5.85	8.72	14.51	31.53	41.60
AT	0.31	4.43	5.18	13.85	19.02	20.02
PL	0.01	0.38	3.32	13.38	16.98	20.77
PT	0.77	7.97	20.76	27.43	28.39	28.73
RO	0.00	0.01	1.95	18.70	21.22	21.35
SI	0.00	0.00	0.38	7.21	7.34	9.49
SK	0.00	0.06	0.28	6.89	7.69	6.99
FI	0.25	0.52	1.32	6.19	14.44	16.79
SE	0.63	1.57	5.56	14.92	21.94	25.38

SOLAR AND WIND ENERGY – CUMULATIVE CAPACITY – SHARE OF TOTAL – 1990-2020 (%)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: see appendices

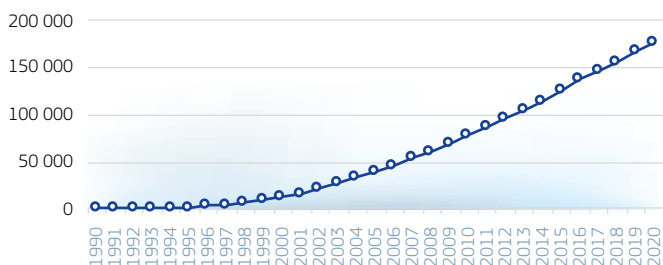
2.7.2 Wind Cumulative Installed Capacity

TOTAL

MW	2000	2005	2010	2015	2019	2020
EU27_2020	12297	38773	78989	127169	167162	176985
Index2000	100%	315%	642%	1034%	1359%	1439%
BE	14	167	912	2176	3863	4681
BG	0	8	488	699	703	703
CZ	1	22	213	281	339	339
DK	2390	3128	3802	5077	6103	6259
DE	6095	18260	26955	44580	60742	62188
EE	0	31	108	300	316	317
IE	117	493	1390	2451	4126	4307
EL	226	491	1298	2091	3589	4119
ES	2206	9918	20693	22943	25590	26819
FR	38	690	5912	10298	16457	17484
HR	0	6	79	418	646	801
IT	363	1635	5794	9137	10679	10871
CY	0	0	82	158	158	158
LV	2	26	30	68	78	78
LT	0	1	133	436	534	540
LU	14	35	44	64	136	153
HU	0	17	293	329	323	321
MT	0	0	0	0	0	0
NL	447	1224	2237	3391	4484	6619
AT	50	825	1016	2489	3224	3226
PL	4	121	1108	4886	5838	6298
PT	83	1064	3796	4937	5223	5122
RO	0	1	389	3130	3038	3013
SI	0	0	0	3	3	3
SK	0	5	3	3	4	4
FI	38	82	197	1005	2284	2586
SE	209	522	2017	5819	8681	9976

WIND CUMULATIVE INSTALLED CAPACITY – TOTAL –
1990-2020 (MW)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.7.2 Wind Cumulative Installed Capacity

SHARE OF TOTAL INSTALLED ELECTRICITY CAPACITY

%	2000	2005	2010	2015	2019	2020
EU27_2020	2.0	5.7	10.0	14.3	17.7	18.4
BE	0.1	1.0	4.9	10.3	16.1	18.2
BG	0.0	0.1	4.9	6.4	6.3	6.4
CZ	0.0	0.1	1.1	1.3	1.5	1.6
DK	19.4	24.0	28.3	36.3	40.3	40.4
DE	5.1	14.2	16.5	21.9	26.2	26.6
EE	0.0	1.2	3.9	10.5	11.5	11.6
IE	2.5	8.1	17.1	25.3	37.1	38.3
EL	2.1	3.7	8.5	11.0	17.5	19.8
ES	4.1	13.0	20.3	21.5	23.3	24.7
FR	0.0	0.6	4.8	7.8	12.1	12.8
HR	0.0	0.2	1.9	8.8	13.7	17.2
IT	0.5	1.9	5.4	7.8	9.2	9.3
CY	0.0	0.0	5.3	9.0	8.7	8.3
LV	0.1	1.2	1.2	2.3	2.7	2.7
LT	0.0	0.0	3.7	12.2	15.8	15.5
LU	1.2	2.1	2.6	3.2	7.7	8.4
HU	0.0	0.2	3.3	3.8	3.2	3.0
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	2.1	5.6	8.4	10.0	12.1	15.7
AT	0.3	4.3	4.8	10.1	12.4	12.3
PL	0.0	0.4	3.3	13.1	13.4	12.8
PT	0.8	8.0	20.1	25.2	24.2	23.7
RO	0.0	0.0	2.0	13.1	14.5	14.6
SI	0.0	0.0	0.0	0.1	0.1	0.1
SK	0.0	0.1	0.0	0.0	0.1	0.1
FI	0.2	0.5	1.3	6.1	13.2	14.9
SE	0.6	1.6	5.5	14.7	20.3	22.8

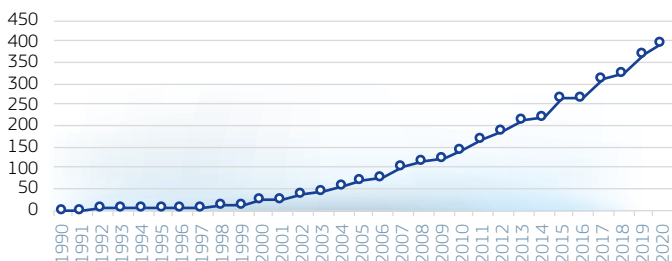
2.7.3 Wind Gross Electricity Production

TOTAL

TWh	2000	2005	2010	2015	2019	2020
EU27_2020	21.3	68.1	139.8	263.2	367.2	397.4
Index2000	100%	320%	657%	1237%	1726%	1868%
BE	0.0	0.2	1.3	5.6	9.8	12.8
BG	0.0	0.0	0.7	1.5	1.3	1.5
CZ	0.0	0.0	0.3	0.6	0.7	0.7
DK	4.2	6.6	7.8	14.1	16.1	16.3
DE	9.4	27.8	38.5	80.6	125.9	132.1
EE	0.0	0.1	0.3	0.7	0.7	0.8
IE	0.2	1.1	2.8	6.6	10.0	11.5
EL	0.5	1.3	2.7	4.6	7.3	9.3
ES	4.7	21.2	44.3	49.3	55.6	56.4
FR	0.0	1.0	9.9	21.4	34.8	39.8
HR	0.0	0.0	0.1	0.8	1.5	1.7
IT	0.6	2.3	9.1	14.8	20.2	18.8
CY	0.0	0.0	0.0	0.2	0.2	0.2
LV	0.0	0.0	0.0	0.1	0.2	0.2
LT	0.0	0.0	0.2	0.8	1.5	1.6
LU	0.0	0.1	0.1	0.1	0.3	0.4
HU	0.0	0.0	0.5	0.7	0.7	0.7
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	0.8	2.1	4.0	7.5	11.5	15.3
AT	0.1	1.3	2.1	4.8	7.5	6.8
PL	0.0	0.1	1.7	10.9	15.1	15.8
PT	0.2	1.8	9.2	11.6	13.7	12.3
RO	0.0	0.0	0.3	7.1	6.8	6.9
SI	0.0	0.0	0.0	0.0	0.0	0.0
SK	0.0	0.0	0.0	0.0	0.0	0.0
FI	0.1	0.2	0.3	2.3	6.0	7.9
SE	0.5	0.9	3.5	16.3	19.8	27.5

WIND GROSS ELECTRICITY PRODUCTION – TOTAL – 1990-2020

EU27_2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.7.4 Wind Penetration Level

IN TOTAL GROSS ELECTRICITY GENERATION

%	2000	2005	2010	2015	2019	2020
EU27_2020	0.8	2.3	4.7	9.1	12.7	14.3
BE	0.0	0.3	1.4	8.1	10.5	14.4
BG	0.0	0.0	1.5	3.0	3.0	3.6
CZ	0.0	0.0	0.4	0.7	0.8	0.9
DK	11.8	18.2	20.1	48.8	54.7	56.8
DE	1.6	4.5	6.1	12.5	20.8	23.1
EE	0.0	0.5	2.1	7.0	9.0	14.2
IE	1.0	4.3	9.9	23.2	32.4	35.8
EL	0.8	2.1	4.7	8.9	14.9	19.3
ES	2.1	7.3	14.7	17.6	20.4	21.4
FR	0.0	0.2	1.7	3.7	6.1	7.5
HR	0.0	0.1	0.9	7.0	11.5	12.9
IT	0.2	0.8	3.0	5.3	6.9	6.7
CY	0.0	0.0	0.6	4.9	4.6	5.0
LV	0.1	1.0	0.7	2.7	2.4	3.1
LT	0.0	0.0	4.1	17.4	40.0	29.2
LU	2.1	1.3	1.2	3.7	14.7	15.7
HU	0.0	0.0	1.4	2.3	2.1	1.9
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	0.9	2.1	3.4	6.9	9.5	12.5
AT	0.1	2.0	2.9	7.4	10.0	9.4
PL	0.0	0.1	1.1	6.6	9.2	10.0
PT	0.4	3.8	17.0	22.1	25.7	23.2
RO	0.0	0.0	0.5	10.7	11.4	12.4
SI	0.0	0.0	0.0	0.0	0.0	0.0
SK	0.0	0.0	0.0	0.0	0.0	0.0
FI	0.1	0.2	0.4	3.4	8.8	11.6
SE	0.3	0.6	2.3	10.1	11.8	16.8

2.7.5 Wind Capacity Factor

ANNUAL AVERAGE

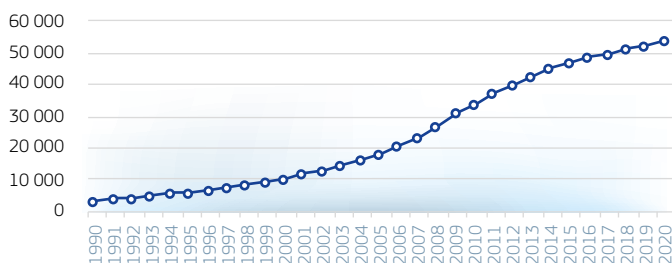
%	2000	2005	2010	2015	2019	2020
EU27_2020	19.8	20.0	20.2	23.6	25.1	25.6
BE	13.0	15.5	16.2	29.2	28.8	31.1
BG			15.9	23.7	21.4	24.0
CZ		11.0	18.0	23.3	23.5	23.5
DK	20.3	24.1	23.4	31.8	30.2	29.8
DE	17.5	17.4	16.3	20.6	23.7	24.2
EE		19.9	29.3	27.2	24.8	30.4
IE	23.9	25.7	23.1	30.6	27.7	30.6
EL	22.8	29.4	23.9	25.2	23.1	25.8
ES	24.5	24.4	24.4	24.5	24.8	24.0
FR	14.5	15.9	19.2	23.7	24.1	26.0
HR		19.0	20.1	21.7	25.9	24.5
IT	17.7	16.4	18.0	18.5	21.6	19.7
CY			4.4	16.1	17.3	17.4
LV		20.6	18.7	24.6	22.5	25.9
LT			19.2	21.2	32.1	32.8
LU	20.2	17.1	14.4	18.2	23.6	26.2
HU		6.8	20.8	24.1	25.8	23.3
MT						
NL	21.2	19.3	20.4	25.4	29.3	26.5
AT	15.2	18.4	23.2	22.2	26.4	24.0
PL	14.3	12.8	17.1	25.4	29.5	28.6
PT	23.1	19.0	27.6	26.8	29.9	27.4
RO			9.0	25.8	25.5	26.3
SI				22.9	21.3	21.6
SK		13.7	22.8	22.8	17.1	11.4
FI	23.4	23.7	17.1	26.4	30.1	35.0
SE	25.0	20.4	19.7	32.0	26.1	31.5

2.7.6 Solar Collectors' Surface

1 000 m ²	2000	2005	2010	2015	2019	2020
EU27_2020	10759	17902	34428	47092	52477	53861
Index2000	100%	166%	320%	438%	488%	501%
BE	41	77	375	660	724	740
BG	0	0	194	344	425	446
CZ	0	85	307	480	555	577
DK	243	286	480	1016	1915	2051
DE	3251	7085	13914	18339	19326	19455
EE	0	0	0	0	0	0
IE	4	13	185	320	337	347
EL	2941	3047	4100	4390	4868	4991
ES	405	777	2312	3293	4068	4236
FR	513	583	1447	2917	3302	3398
HR	20	41	92	183	272	288
IT	271	680	2415	3724	4344	4458
CY	0	730	909	1009	1084	1102
LV	0	0	0	0	22	22
LT	0	0	0	0	0	0
LU	0	6	29	56	70	74
HU	36	45	140	280	350	392
MT	0	0	40	70	73	74
NL	276	422	576	647	672	669
AT	2202	3083	4559	5261	5050	4923
PL	0	95	656	1900	2696	3007
PT	238	289	752	1121	1348	1407
RO	0	0	104	159	219	219
SI	101	107	178	224	224	223
SK	0	64	123	171	0	232
FI	10	16	31	50	73	80
SE	207	371	510	478	459	451

SOLAR THERMAL COLLECTORS –
1990-2020 (1 000 m²)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: see appendices

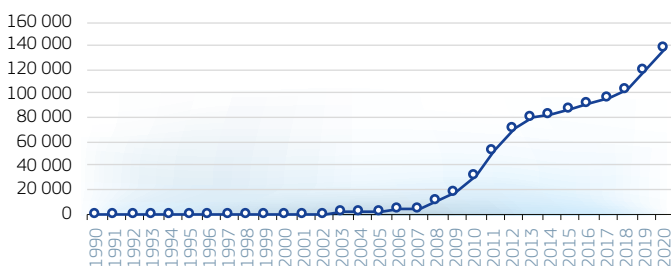
2.7.7 Solar Installed Capacity

TOTAL

MW	2000	2005	2010	2015	2019	2020
EU27_2020	175	2 268	30 616	87 688	120 222	138 443
BE	0	2	1 007	3 132	4 637	5 575
BG	0	0	25	1 029	1 048	1 097
CZ	0	1	1 727	2 075	2 086	2 123
DK	1	3	7	782	1 080	1 304
DE	114	2 056	18 006	39 224	48 914	53 721
EE	0	0	0	0	121	208
IE	0	0	1	2	58	93
EL	0	1	202	2 604	2 834	3 288
ES	10	52	4 605	7 008	11 143	12 589
FR	7	13	1 044	7 138	10 808	12 022
HR	0	0	0	48	85	109
IT	19	34	3 592	18 901	20 865	21 650
CY	0	1	7	76	151	229
LV	0	0	0	0	3	5
LT	0	0	0	69	103	164
LU	0	24	29	116	160	187
HU	0	0	2	172	1 400	2 131
MT	0	0	1	75	155	188
NL	13	51	90	1 526	7 226	10 950
AT	5	21	89	937	1 702	2 043
PL	0	0	0	108	1 539	3 955
PT	1	2	134	447	901	1 100
RO	0	0	0	1 326	1 398	1 383
SI	0	0	12	239	278	370
SK	0	0	19	533	590	535
FI	2	4	7	17	222	318
SE	3	4	11	104	714	1 107

SOLAR INSTALLED CAPACITY – TOTAL –
1990-2020 (MW)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

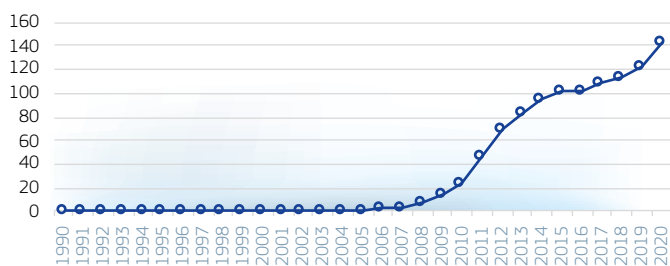
2.7.8 Solar Gross Electricity Production

TOTAL

TWh	2000	2005	2010	2015	2019	2020
EU27_2020	0.1	1.5	23.2	100.9	123.8	144.2
BE	0.0	0.0	0.6	3.1	4.3	5.1
BG	0.0	0.0	0.0	1.4	1.4	1.5
CZ	0.0	0.0	0.6	2.3	2.3	2.3
DK	0.0	0.0	0.0	0.6	1.0	1.2
DE	0.1	1.3	11.7	38.7	44.4	48.6
EE	0.0	0.0	0.0	0.0	0.1	0.1
IE	0.0	0.0	0.0	0.0	0.0	0.1
EL	0.0	0.0	0.2	3.9	4.4	4.4
ES	0.0	0.0	7.2	13.9	15.1	20.7
FR	0.0	0.0	0.6	7.8	12.2	13.4
HR	0.0	0.0	0.0	0.1	0.1	0.1
IT	0.0	0.0	1.9	22.9	23.7	24.9
CY	0.0	0.0	0.0	0.1	0.2	0.3
LV	0.0	0.0	0.0	0.0	0.0	0.0
LT	0.0	0.0	0.0	0.1	0.1	0.1
LU	0.0	0.0	0.0	0.1	0.1	0.2
HU	0.0	0.0	0.0	0.1	1.5	2.5
MT	0.0	0.0	0.0	0.1	0.2	0.2
NL	0.0	0.0	0.1	1.1	5.4	8.8
AT	0.0	0.0	0.1	0.9	1.7	2.0
PL	0.0	0.0	0.0	0.1	0.7	2.0
PT	0.0	0.0	0.2	0.8	1.3	1.7
RO	0.0	0.0	0.0	2.0	1.8	1.7
SI	0.0	0.0	0.0	0.3	0.3	0.4
SK	0.0	0.0	0.0	0.5	0.6	0.7
FI	0.0	0.0	0.0	0.0	0.1	0.2
SE	0.0	0.0	0.0	0.1	0.7	1.1

SOLAR GROSS ELECTRICITY PRODUCTION – TOTAL –
1990-2020

EU27_2020



source: Eurostat April 2022

Methodology and Notes: see appendices

2.7.9 Solar Penetration Level

IN TOTAL GROSS ELECTRICITY GENERATION

%	2000	2005	2010	2015	2019	2020
EU27_2020	0.0	0.1	0.8	3.5	4.3	5.2
BE	0.0	0.0	0.6	4.4	4.6	5.7
BG	0.0	0.0	0.0	2.8	3.3	3.6
CZ	0.0	0.0	0.7	2.7	2.7	2.8
DK	0.0	0.0	0.0	2.1	3.3	4.1
DE	0.0	0.2	1.9	6.0	7.3	8.5
EE	0.0	0.0	0.0	0.0	1.0	2.1
IE	0.0	0.0	0.0	0.0	0.1	0.2
EL	0.0	0.0	0.3	7.5	9.1	9.2
ES	0.0	0.0	2.4	4.9	5.5	7.9
FR	0.0	0.0	0.1	1.3	2.1	2.5
HR	0.0	0.0	0.0	0.5	0.7	0.7
IT	0.0	0.0	0.6	8.1	8.1	8.9
CY	0.0	0.0	0.1	2.8	4.2	6.1
LV	0.0	0.0	0.0	0.0	0.0	0.1
LT	0.0	0.0	0.0	1.6	2.4	2.4
LU	0.0	0.4	0.5	3.7	6.8	7.2
HU	0.0	0.0	0.0	0.5	4.4	7.1
MT	0.0	0.0	0.0	7.3	9.5	11.1
NL	0.0	0.0	0.0	1.0	4.5	7.1
AT	0.0	0.0	0.1	1.4	2.3	2.8
PL	0.0	0.0	0.0	0.0	0.4	1.2
PT	0.0	0.0	0.4	1.5	2.5	3.2
RO	0.0	0.0	0.0	3.0	3.0	3.1
SI	0.0	0.0	0.1	1.8	1.9	2.1
SK	0.0	0.0	0.1	1.9	2.1	2.3
FI	0.0	0.0	0.0	0.0	0.2	0.3
SE	0.0	0.0	0.0	0.1	0.4	0.6

2.8 CHP

2.8.1 CHP Electricity

GENERATION AND CAPACITY

	CHP Electricity Generation			CHP Electrical Capacity		
	TWh			GW		
	2018	2019	2020	2018	2019	2020
EU27_2020	344,6	348,4	337,6	133,6	133,3	133,4
BE	11,4	12,8	13,0	2,3	2,4	2,4
BG	3,6	3,9	3,8	1,1	1,2	1,3
CZ	10,0	9,9	10,2	8,5	8,5	8,3
DK	11,4	10,6	8,3	5,9	5,1	5,0
DE	88,5	86,9	85,5	53,9	54,8	53,4
EE	1,1	1,0	1,4	0,2	0,2	0,5
IE	2,1	2,1	2,1	0,3	0,3	0,3
EL	2,4	2,2	2,3	0,4	0,4	0,4
ES	29,0	29,7	26,9	4,7	5,0	5,0
FR	17,3	18,1	17,5	6,6	6,6	6,5
HR	2,0	2,3	2,7	0,9	0,9	0,9
IT	39,7	40,5	39,9	8,6	8,6	9,2
CY	0,0	0,0	0,0	0,0	0,0	0,0
LV	3,1	2,6	2,1	1,3	1,3	1,3
LT	0,9	1,1	1,2	0,6	0,6	0,6
LU	0,4	0,4	0,5	0,1	0,1	0,1
HU	4,5	4,6	4,7	1,5	1,5	1,6
MT	0,2	0,2	0,2	0,1	0,1	0,1
NL	31,2	32,2	31,7	8,8	8,8	9,1
AT	9,4	9,7	9,7	2,8	2,9	2,9
PL	28,8	29,9	30,1	10,1	9,7	10,0
PT	6,2	6,4	6,5	1,2	1,3	1,3
RO	5,4	5,1	4,6	1,6	1,3	1,4
SI	1,3	1,2	1,2	0,4	0,4	0,3
SK		3,1	3,3		1,5	1,6
FI	22,8	22,5	18,9	6,4	6,4	6,4
SE	9,1	9,2	9,2	3,3	3,3	3,3

source: Eurostat, July 2022

Methodology and Notes: [see appendices](#)

2.8.2 CHP Heat

PRODUCTION AND CAPACITY

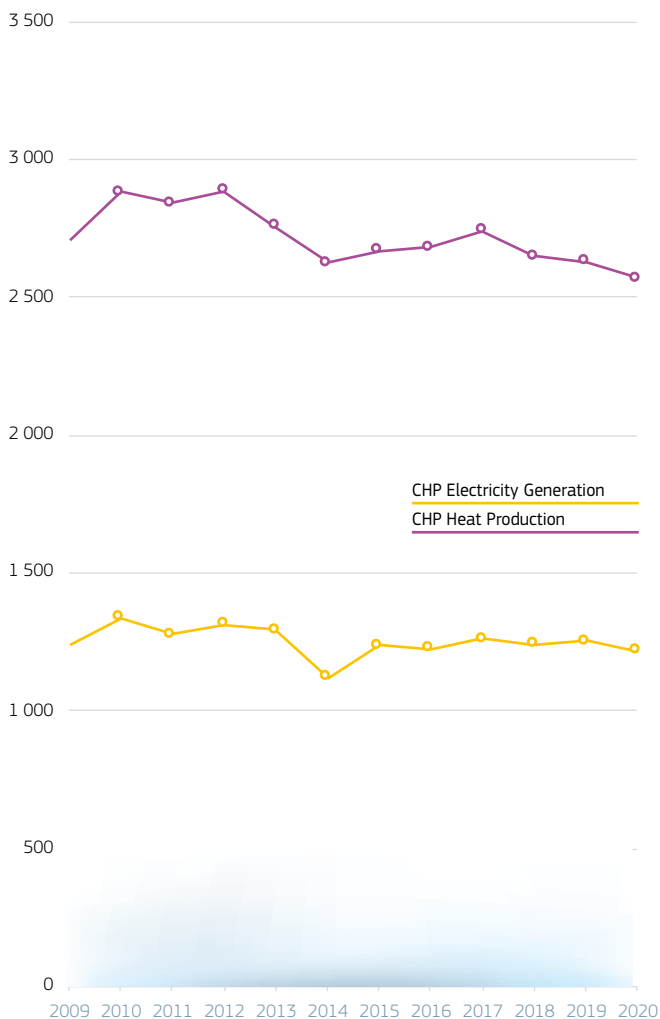
	CHP Heat Production			CHP Heat Capacity		
	PJ			GW		
	2018	2019	2020	2018	2019	2020
EU27_2020	2650.9	2629.2	2568.2	280.5	285.4	252.8
BE	89.5	94.8	93.4	4.9	4.9	5.1
BG	40.1	39.6	36.2	4.3	4.4	4.6
CZ	102.1	99.1	100.2	21.7	20.4	19.2
DK	95.2	91.9	80.8	9.0	8.6	8.5
DE	676.1	663.2	638.8	98.0	96.5	63.7
EE	3.5	3.6	12.8	0.7	0.7	1.5
IE	11.6	11.2	11.1	0.6	0.6	0.6
EL	17.4	15.3	16.8	0.9	0.9	0.8
ES	141.9	143.2	132.4	10.3	10.7	10.7
FR	176.4	159.9	177.1	15.7	21.4	21.6
HR	15.8	17.6	20.0	2.2	2.2	2.1
IT	214.6	216.9	213.4	18.4	21.9	21.5
CY	0.6	0.1	0.2	0.0	0.0	0.0
LV	15.1	13.7	12.1	1.2	1.2	1.2
LT	10.2	11.0	11.7	1.5	1.5	1.6
LU	2.9	3.8	4.8	0.2	0.3	0.3
HU	24.7	27.5	27.6	3.0	3.1	3.1
MT	0.1	0.1	0.1	0.0	0.0	0.0
NL	173.8	174.2	171.6	15.9	15.4	16.3
AT	110.8	110.2	111.3	8.8	8.9	8.7
PL	247.1	248.5	245.6	25.1	24.5	24.2
PT	59.6	62.1	59.8	4.2	4.4	4.9
RO	42.2	62.1	35.4	4.9	4.4	4.2
SI	11.3	11.0	11.2	0.9	0.9	0.9
SK		34.9	35.1		3.4	3.4
FI	245.7	242.7	214.8	16.5	16.2	16.2
SE	90.6	94.0	94.0	7.8	7.9	7.9

source: Eurostat, July 2022

Methodology and Notes: [see appendices](#)

2.8.3 CHP Electricity and Heat

EU27_2020 - CHP ELECTRICITY AND HEAT GENERATION (PJ)*



source: Eurostat July 2022

*data before 2009 is not consistent across the EU27

Methodology and Notes: [see appendices](#)

2.9 Heat*

2.9.1 Gross Heat Generation

TOTAL

PJ	2000	2005	2010	2015	2019	2020
EU27_2020	2 044.7	2 498.7	2 580.7	2 258.1	2 248.0	2 157.9
Index2000	100 %	122 %	126 %	110 %	110 %	106 %
BE	23.2	30.5	33.9	26.4	20.6	20.4
BG	50.8	52.1	57.1	48.7	36.6	36.6
CZ	139.2	138.9	147.0	119.4	114.7	111.2
DK	115.5	125.8	147.9	126.9	128.0	123.5
DE	315.9	485.8	508.6	448.8	451.6	419.8
EE	27.0	26.8	25.5	20.9	22.0	21.3
IE	0.0	0.0	0.0	0.0	0.0	0.0
EL	1.2	2.0	1.9	2.1	2.2	2.2
ES	0.0	0.0	0.0	0.0	0.0	0.0
FR	135.5	178.3	152.9	146.3	163.9	161.0
HR	11.5	13.3	12.5	11.1	13.2	13.9
IT	0.0	193.1	205.3	216.9	231.4	228.9
CY	0.0	0.0	0.0	0.1	0.1	0.0
LV	31.9	31.1	28.7	25.5	28.6	27.1
LT	42.8	42.9	40.0	31.9	31.7	29.8
LU	0.5	3.2	3.1	2.4	4.0	5.6
HU	69.2	63.6	53.0	50.2	45.3	45.9
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	172.4	178.5	159.9	120.4	104.8	94.3
AT	47.7	59.1	78.2	82.7	83.8	84.3
PL	340.7	335.5	335.1	280.1	286.2	285.2
PT	5.6	13.7	21.1	19.5	20.9	20.5
RO	189.7	127.7	99.1	76.6	61.4	59.1
SI	9.4	10.1	9.8	8.7	9.1	9.2
SK	36.8	52.5	48.5	36.6	31.3	30.7
FI	147.5	175.4	206.9	172.5	170.1	154.2
SE	131.0	158.8	204.6	183.5	186.3	173.1

*only Heat sold, as considered currently in the energy balances

source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

2.9.1 Gross Heat Generation

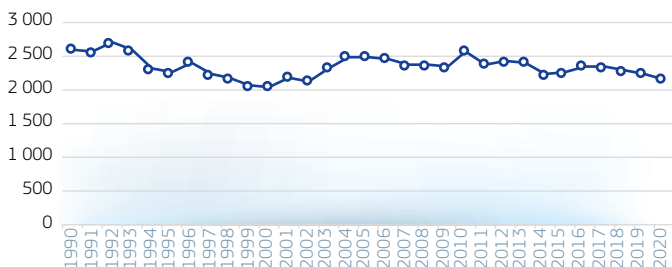
BY FUEL

PJ	2020						
	Gross Heat Generation	Solid fossil fuels, peat, oil shale & sands	Oil and petroleum products	Natural gas and manufactured gases	Nuclear	Renewables and biofuels	Wastes non-RES and others
EU27_2020	2 157.9	447.2	66.2	823.9	3.7	682.6	132.5
Share - %	100.0%	20.7%	3.1%	38.2%	0.2%	31.6%	6.1%
BE	20.4	0.0	0.0	15.9	0.0	2.8	1.7
BG	36.6	7.9	0.0	21.8	0.5	6.1	0.3
CZ	111.2	57.1	0.9	39.3	0.8	11.6	1.5
DK	123.5	7.3	0.9	14.2	0.0	84.9	14.9
DE	419.8	89.5	4.6	206.6	0.0	79.6	39.5
EE	21.3	1.9	0.2	4.1	0.0	14.6	0.6
IE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EL	2.2	2.0	0.0	0.2	0.0	0.0	0.0
ES	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FR	161.0	4.3	0.7	66.9	0.0	73.2	16.0
HR	13.9	0.0	0.1	9.9	0.0	3.9	0.0
IT	228.9	0.9	31.5	149.3	0.0	41.3	5.9
CY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LV	27.1	0.0	0.1	12.1	0.0	14.9	0.0
LT	29.8	0.1	0.2	5.7	0.0	22.2	1.4
LU	5.6	0.0	0.0	1.4	0.0	4.2	0.0
HU	45.9	0.8	0.0	36.2	0.5	7.2	1.1
MT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NL	94.3	1.5	8.7	56.7	0.0	21.1	6.2
AT	84.3	1.8	2.5	29.8	0.0	44.1	6.1
PL	285.2	214.8	3.3	41.6	0.0	21.2	4.4
PT	20.5	0.0	0.4	20.1	0.0	0.0	0.0
RO	59.1	8.0	3.2	44.1	0.0	3.8	0.0
SI	9.2	4.3	0.1	2.7	0.0	1.9	0.1
SK	30.7	6.4	0.3	15.6	1.8	6.4	0.2
FI	154.2	37.2	6.9	23.5	0.0	80.8	6.0
SE	173.1	1.3	1.5	6.2	0.0	136.8	26.8

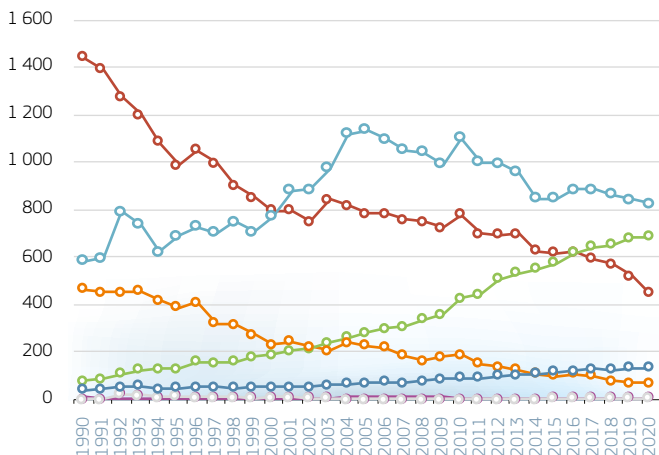
2.9.1 Gross Heat Generation

EU27_2020 – TOTAL – 1990-2020 (PJ)

EU27_2020



EU27_2020 – GROSS HEAT GENERATION – 1990-2020 (PJ)



Solid fossil fuels, peat, oil shale and sands

Oil and petroleum products

Natural gas and manufactured gases

Nuclear

Renewables and biofuels

Wastes non-RES

Others

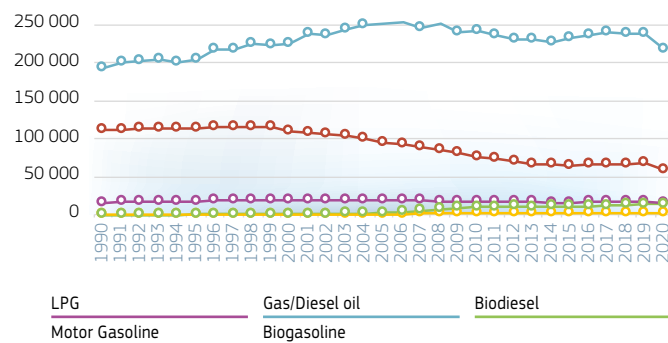
2.10 Transport

2.10.1 Fuels Final Consumption

PETROLEUM PRODUCTS AND BIOFUELS

ktoe	Final consumption petroleum products	LPG	Motor gasoline	Gas/Diesel oil	Final consumption biofuels	Biogasoline	Biodiesel
1990	320890	16192	111718	192980	6	0	6
1995	336595	17423	113998	205174	218	25	189
2000	354896	19465	110381	225049	713	59	640
2001	366242	19344	108744	238154	840	66	756
2002	362782	19102	107019	236660	1113	159	932
2003	366325	19092	103482	243752	1433	243	1160
2004	368937	19157	100230	249550	1963	306	1613
2005	367556	19408	95746	252402	3270	550	2532
2006	365556	18771	92404	254381	5465	849	3909
2007	353404	18181	89352	245871	7657	1100	5720
2008	354999	18069	84683	252247	9355	1707	7183
2009	339425	17680	81459	240285	11049	2084	8681
2010	336673	18039	76807	241827	12442	2496	9701
2011	327290	17157	73858	236275	12975	2552	10311
2012	316525	16751	69274	230501	13795	2491	11254
2013	314636	16860	66862	230914	12310	2314	9949
2014	310708	16179	66573	227957	13307	2303	10936
2015	315054	16217	65300	233537	13329	2344	10927
2016	319444	16608	65645	237191	13183	2306	10807
2017	323158	16333	66006	240819	14441	2437	11940
2018	321342	16862	66215	238264	16065	2623	13327
2019	323230	16584	67652	238993	16629	2725	13779
2020	291235	15195	58221	217820	16875	2677	14024

EU27_2020 – FUELS CONSUMPTION IN THE TRANSPORT SECTOR – 1990-2020 (ktoe)



source: Eurostat April 2022

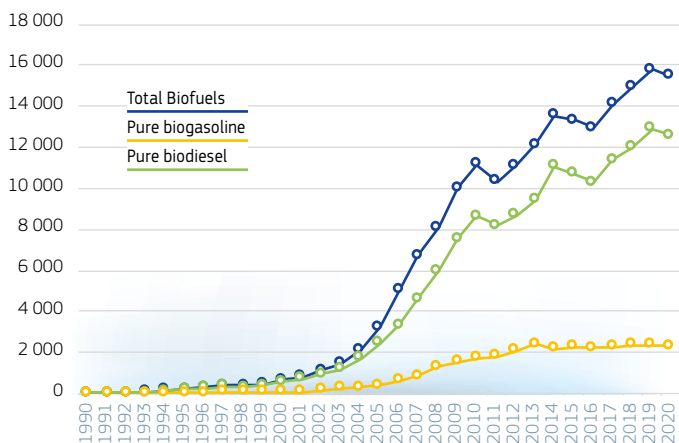
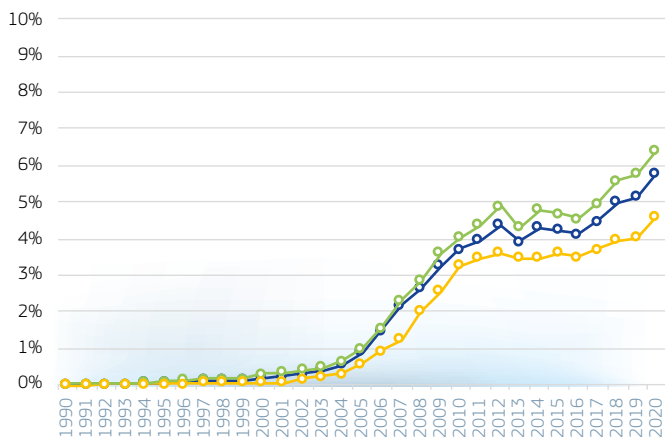
Methodology and Notes: see appendices

2.10.2 Biofuels

EU27_2020 – BY FUEL

	Production			Share in Transport Fuels		
	Total Biofuels	Pure biogasoline	Pure biodiesel	of liquid biofuels in total transport liquid fuels	of Biogasoline in Motor Gasoline %	of Biodiesel in Gas/Diesel Oil %
	ktoe			%		
1990	6	0	6	0.0%	0.0%	0.0%
1991	7	0	7	0.0%	0.0%	0.0%
1992	20	2	16	0.0%	0.0%	0.0%
1993	47	18	25	0.0%	0.0%	0.0%
1994	133	25	96	0.0%	0.0%	0.1%
1995	222	25	188	0.1%	0.0%	0.1%
1996	314	39	270	0.1%	0.0%	0.1%
1997	403	54	340	0.1%	0.0%	0.2%
1998	385	63	312	0.1%	0.1%	0.2%
1999	442	59	371	0.1%	0.1%	0.2%
2000	639	60	564	0.2%	0.1%	0.3%
2001	792	71	696	0.2%	0.1%	0.3%
2002	1 108	160	918	0.3%	0.1%	0.4%
2003	1 460	264	1 145	0.4%	0.2%	0.5%
2004	2 139	312	1 716	0.5%	0.3%	0.6%
2005	3 229	383	2 445	0.9%	0.6%	1.0%
2006	5 036	636	3 298	1.5%	0.9%	1.5%
2007	6 711	865	4 621	2.2%	1.2%	2.3%
2008	8 102	1 282	5 975	2.6%	2.0%	2.8%
2009	9 994	1 538	7 521	3.3%	2.6%	3.6%
2010	11 158	1 728	8 614	3.7%	3.2%	4.0%
2011	10 314	1 824	8 156	4.0%	3.5%	4.4%
2012	11 111	2 103	8 703	4.4%	3.6%	4.9%
2013	12 143	2 408	9 399	3.9%	3.5%	4.3%
2014	13 530	2 188	11 044	4.3%	3.5%	4.8%
2015	13 314	2 274	10 707	4.2%	3.6%	4.7%
2016	12 962	2 240	10 289	4.1%	3.5%	4.6%
2017	14 111	2 264	11 406	4.5%	3.7%	5.0%
2018	14 911	2 368	12 002	5.0%	4.0%	5.6%
2019	15 810	2 352	12 919	5.1%	4.0%	5.8%
2020	15 481	2 294	12 585	5.8%	4.6%	6.4%

2.10.2 Biofuels

EU27-2020 – PRODUCTION BIOFUELS –
1990-2020 (ktoe)EU27_2020 – BIOFUELS SHARE IN TRANSPORT LIQUID FUELS –
1990-2020 (%)

of liquid biofuels in total transport liquid fuels
of Biogasoline in Motor Gasoline [%]
of Biodiesel in Gas/Diesel Oil [%]

2.11 Energy Efficiency

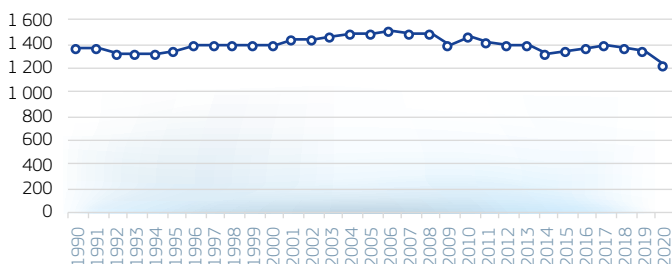
2.11.1 Primary Energy Consumption 2020-2030*

ALL FUELS

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	1 396.5	1 497.9	1 457.7	1 352.7	1 353.8	1 236.3
Index2000	100%	107%	104%	97%	97%	89%
BE	52.4	51.6	53.4	45.7	48.4	43.9
BG	17.7	19.2	17.4	18.0	18.2	17.2
CZ	39.1	42.5	42.5	39.4	39.8	37.5
DK	19.1	19.4	20.0	16.8	16.8	15.3
DE	317.1	321.6	315.2	295.9	285.2	262.3
EE	4.6	5.3	5.8	4.8	4.7	4.3
IE	13.7	14.9	14.7	14.0	14.7	13.4
EL	27.2	30.3	27.2	23.4	22.3	19.2
ES	114.5	136.0	123.0	118.2	120.6	105.0
FR	239.1	261.0	254.6	244.4	235.2	208.4
HR	7.8	9.1	8.9	8.0	8.2	7.8
IT	166.1	180.8	167.3	149.1	145.9	132.3
CY	2.3	2.5	2.7	2.3	2.5	2.2
LV	3.8	4.5	4.6	4.3	4.6	4.3
LT	6.5	8.0	6.2	5.8	6.3	6.2
LU	3.6	4.8	4.6	4.1	4.5	3.9
HU	23.6	26.3	24.6	23.3	24.6	23.9
MT	0.8	0.9	0.9	0.8	0.9	0.7
NL	66.9	70.1	71.7	63.9	63.5	58.4
AT	27.5	32.7	32.9	31.7	32.3	29.7
PL	84.8	88.0	96.6	90.1	100.2	96.9
PT	23.0	24.9	22.7	21.6	22.1	19.5
RO	34.9	36.1	32.9	30.7	32.1	30.9
SI	6.3	7.2	7.0	6.3	6.5	6.1
SK	16.4	17.4	16.7	15.2	16.0	15.2
FI	31.6	33.6	35.4	31.2	32.1	29.9
SE	46.0	49.0	48.3	43.8	45.8	41.7

PRIMARY ENERGY CONSUMPTION 2020-2030 – 1990-2020 (Mtoe)

EU27_2020



*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 April 2022

Methodology and Notes: [see appendices](#)

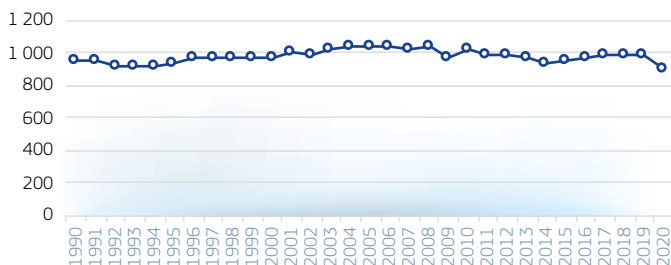
2.11.2 Final Energy Consumption 2020-2030*

ALL FUELS

Mtoe	2000	2005	2010	2015	2019	2020
EU27_2020	979,5	1 040,9	1 024,1	958,4	986,4	907,0
Index2000	100%	106%	105%	98%	101%	93%
BE	37.7	36.8	38.1	35.9	35.8	33.3
BG	9.1	10.1	8.8	9.5	9.8	9.5
CZ	25.1	26.1	25.3	24.2	25.3	24.5
DK	14.7	15.5	15.5	14.2	14.3	13.1
DE	220.2	219.7	223.0	212.7	214.7	201.7
EE	2.4	2.9	2.9	2.8	2.9	2.8
IE	10.8	12.6	11.9	11.3	12.4	11.2
EL	18.7	21.0	19.1	16.6	16.2	14.5
ES	80.0	98.1	89.6	80.5	86.5	73.8
FR	154.8	160.1	154.0	148.4	145.4	130.1
HR	6.0	7.2	7.2	6.6	6.9	6.5
IT	124.8	137.2	128.5	116.2	115.4	102.7
CY	1.6	1.8	1.9	1.7	1.9	1.6
LV	3.3	4.0	4.1	3.8	4.1	3.9
LT	3.8	4.7	4.8	4.9	5.6	5.3
LU	3.5	4.5	4.3	4.0	4.4	3.8
HU	16.2	18.7	17.5	17.4	18.6	18.0
MT	0.4	0.5	0.5	0.6	0.7	0.5
NL	52.1	54.1	55.3	48.8	49.7	45.5
AT	23.7	27.9	28.0	27.5	28.3	26.1
PL	55.1	58.5	66.3	62.3	73.7	71.1
PT	18.0	19.0	18.1	16.0	17.1	15.0
RO	22.7	24.6	22.5	21.8	23.9	23.5
SI	4.6	5.1	5.1	4.7	4.9	4.4
SK	11.0	11.6	11.5	10.1	11.2	10.4
FI	24.4	25.2	26.2	24.2	25.4	23.3
SE	35.0	33.2	34.0	31.8	31.5	30.9

FINAL ENERGY CONSUMPTION 2020-2030 –
ALL FUELS – 1990-2020

EU27_2020



*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 April 2022

Methodology and Notes: [see appendices](#)

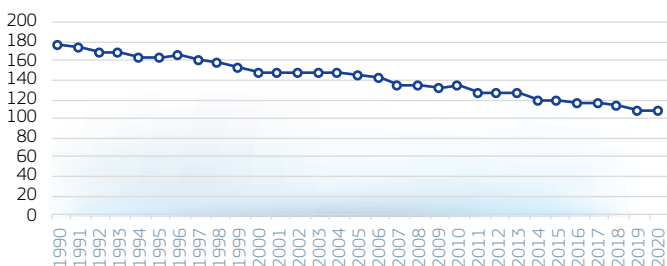
2.11.3 Energy Intensity

ALL FUELS

toe/M€ '2015	2000	2005	2010	2015	2019	2020
EU27_2020	147	145	134	119	110	107
Index2000	100%	98%	91%	81%	74%	73%
BE	180	163	155	129	126	122
BG	680	556	418	408	364	360
CZ	363	330	292	248	221	220
DK	82	78	80	63	57	54
DE	134	132	122	105	95	92
EE	376	308	338	235	197	190
IE	101	84	80	54	45	39
EL	154	141	131	137	128	122
ES	142	140	121	114	106	105
FR	139	138	129	118	107	103
HR	238	222	208	188	171	175
IT	105	109	103	94	90	90
CY	173	149	142	129	117	107
LV	269	216	223	178	168	164
LT	363	307	228	192	180	176
LU	100	113	95	77	75	67
HU	306	278	261	223	202	207
MT	134	142	122	76	70	64
NL	135	135	130	111	100	99
AT	104	112	107	98	93	92
PL	352	314	273	223	207	205
PT	146	151	130	131	119	117
RO	400	320	252	199	170	171
SI	225	218	191	167	148	146
SK	410	338	251	204	191	193
FI	185	173	175	155	149	143
SE	145	137	123	103	100	93

ENERGY INTENSITY – ALL FUELS – 1990-2020 [TOE/M€'2015]

EU27_2020



Source: Eurostat, DG Economic and Financial Affairs, April 2022
Methodology and Notes: [see appendices](#)

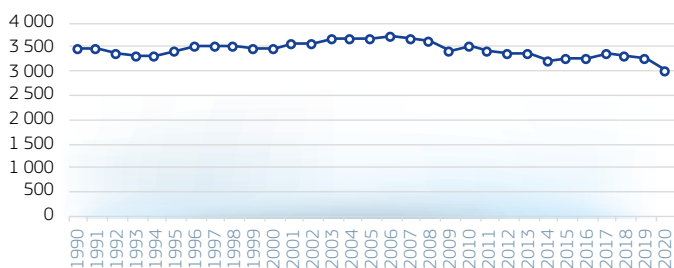
2.11.4 Energy Consumption per Capita

GROSS INLAND CONSUMPTION (ALL FUELS) PER POPULATION

kgoe/cap	2000	2005	2010	2015	2019	2020
EU27_2020	3 497	3 692	3 538	3 264	3 266	2 996
Index2000	100%	106%	101%	93%	93%	86%
BE	5 805	5 675	5 599	4 777	4 896	4 464
BG	2 275	2 612	2 414	2 594	2 692	2 566
CZ	4 017	4 465	4 346	3 990	4 032	3 760
DK	3 658	3 663	3 680	3 049	2 975	2 728
DE	4 168	4 200	4 135	3 918	3 712	3 424
EE	3 361	4 044	4 443	3 690	3 621	3 378
IE	3 804	3 762	3 311	3 045	3 054	2 763
EL	2 589	2 831	2 549	2 218	2 196	1 908
ES	3 065	3 337	2 799	2 646	2 702	2 362
FR	4 229	4 417	4 173	3 913	3 742	3 323
HR	1 877	2 278	2 201	2 013	2 156	2 047
IT	3 066	3 273	2 988	2 562	2 598	2 374
CY	3 511	3 476	3 370	2 715	2 998	2 574
LV	1 623	2 040	2 183	2 205	2 421	2 286
LT	2 093	2 677	2 254	2 459	2 792	2 732
LU	8 433	10 411	9 250	7 421	7 402	6 331
HU	2 468	2 823	2 655	2 557	2 733	2 677
MT	2 080	2 324	2 266	1 724	1 826	1 480
NL	4 934	5 133	5 198	4 519	4 401	4 132
AT	3 652	4 192	4 171	3 928	3 924	3 619
PL	2 332	2 425	2 672	2 522	2 793	2 713
PT	2 476	2 614	2 306	2 274	2 325	2 077
RO	1 637	1 809	1 725	1 604	1 710	1 666
SI	3 301	3 786	3 544	3 151	3 231	3 016
SK	3 284	3 480	3 286	3 000	3 123	3 013
FI	6 336	6 654	6 875	5 969	6 201	5 813
SE	5 384	5 705	5 402	4 826	4 860	4 377

ENERGY PER CAPITA –
1990-2020 (kgoe/cap)

EU27_2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

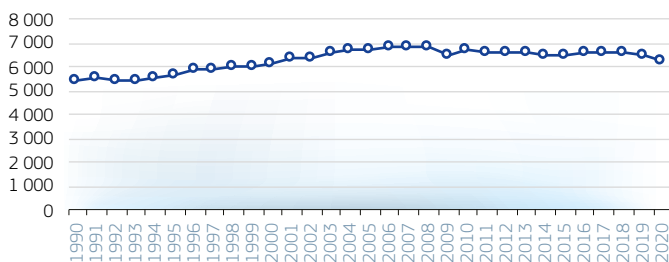
2.11.5 Final Electricity Consumption per Capita

ALL FUELS

kWh/cap	2000	2005	2010	2015	2019	2020
EU27_2020	6201	6713	6762	6538	6501	6218
Index2000	100%	108%	109%	105%	105%	100%
BE	8205	8176	8701	6162	8136	7715
BG	4996	5770	6284	6832	6324	5859
CZ	7148	8097	8203	7953	8160	7612
DK	6757	6698	7021	5113	5085	4935
DE	7017	7517	7714	7962	7293	6867
EE	6075	7510	9723	7718	5748	4482
IE	6347	6316	6232	6069	6313	6504
EL	4997	5471	5163	4778	4534	4502
ES	5547	6677	6483	6043	5819	5561
FR	8918	9177	8802	8710	8490	7891
HR	2508	3053	3463	2699	3130	3298
IT	4846	5228	5090	4645	4902	4695
CY	4881	5971	6497	5354	5870	5461
LV	1737	2181	3125	2786	3353	3001
LT	3227	4347	1750	1598	1342	1901
LU	2690	8952	9145	4913	3109	3568
HU	3443	3541	3732	3074	3497	3561
MT	4931	5563	5105	2967	4173	4165
NL	5634	6112	7186	6437	6990	7068
AT	7652	8149	8515	7605	8378	8151
PL	3794	4103	4144	4337	4312	4161
PT	4270	4438	5115	5052	5172	5155
RO	2296	2779	3005	3336	3071	2894
SI	6854	7567	8031	7320	7737	8202
SK	5771	5851	5161	4944	5211	5278
FI	13495	13432	15017	12491	12394	12438
SE	16393	17582	15903	16631	16465	15864

FINAL ELECTRICITY CONSUMPTION PER CAPITA –
ALL FUELS – 1990-2020 [kwh/cap]

EU27_2020



source: Eurostat April 2022

Methodology and Notes: [see appendices](#)

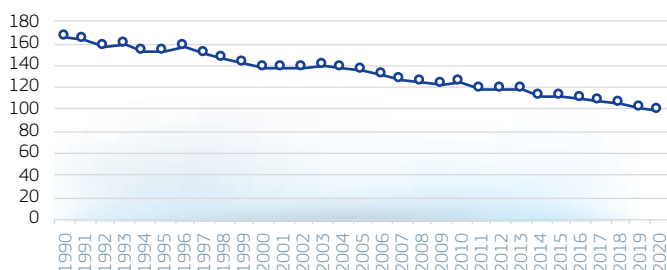
2.11.6 Primary Energy Intensity 2020-2030*

ALL FUELS

toe/M€'2015	2000	2005	2010	2015	2019	2020
EU27_2020	137	135	125	111	102	99
Index2000	100%	99%	91%	81%	74%	72%
BE	159	142	137	110	109	104
BG	644	532	406	392	352	347
CZ	344	308	273	233	204	205
DK	81	77	78	62	56	52
DE	124	123	113	98	88	85
EE	363	296	333	231	192	182
IE	96	81	78	53	44	38
EL	150	138	126	133	121	115
ES	131	132	114	110	101	99
FR	130	130	122	111	100	96
HR	220	206	195	176	159	164
IT	100	104	98	90	84	84
CY	167	145	137	127	113	103
LV	264	211	220	174	165	160
LT	323	275	199	155	145	144
LU	99	112	95	77	74	66
HU	286	257	241	206	186	189
MT	134	139	121	75	68	63
NL	115	113	108	93	84	80
AT	98	107	101	92	86	85
PL	335	299	259	209	195	193
PT	132	137	121	120	110	106
RO	379	298	237	192	164	164
SI	217	209	185	163	144	141
SK	378	315	236	190	179	178
FI	179	167	168	148	140	133
SE	140	131	118	96	92	86

PRIMARY ENERGY INTENSITY – ALL FUELS –
1990-2020 (toe/M€'2015)

EU27_2020



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

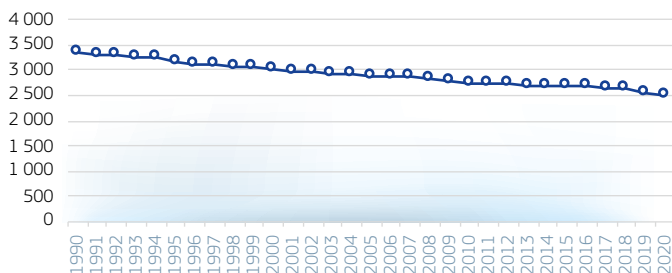
Source: Eurostat, DG Economic and Financial Affairs, April 2022

Methodology and Notes: see appendices

2.11.7 Greenhouse Gas (GHG) Intensity of Energy

ALL FUELS

kg CO ₂ /toe	2000	2005	2010	2015	2019	2020
EU27_2020	3023	2889	2743	2710	2562	2503
Index2000	100%	96%	91%	90%	85%	83%
BE	2584	2516	2272	2298	2169	2140
BG	3070	3119	3339	3362	3195	2781
CZ	3666	3299	3112	3088	2907	2827
DK	3786	3512	3252	2990	2757	2690
DE	3085	2914	2839	2901	2692	2608
EE	3725	3511	3593	3749	3095	2590
IE	4891	4707	4267	4424	4220	4294
EL	4627	4477	4273	4082	3805	3725
ES	3207	3142	2850	2864	2625	2516
FR	2200	2046	1941	1829	1805	1793
HR	3043	3047	2980	2905	2871	2880
IT	3239	3164	2978	2899	2772	2719
CY	3770	3951	3736	3960	3786	4028
LV	2631	2425	2631	2523	2496	2440
LT	2655	2544	2951	2861	2657	2666
LU	2908	2981	2901	2800	2761	2703
HU	2999	2720	2510	2462	2450	2414
MT	3854	3473	3452	3277	2941	3049
NL	2913	2675	2581	2679	2528	2377
AT	2799	2734	2475	2391	2378	2317
PL	4455	4387	4078	4079	3712	3665
PT	3295	3210	2936	3004	2848	2767
RO	3793	3807	3524	3625	3445	3417
SI	2843	2714	2718	2595	2551	2512
SK	2753	2712	2586	2512	2350	2256
FI	2177	2045	2102	1745	1618	1515
SE	1473	1338	1325	1197	1076	1045

GHG INTENSITY OF ENERGY – 1990-2020 (kg CO₂/toe) EU27_2020

Source: EEA, June 2022, Eurostat 2022
 Methodology and Notes: [see appendices](#)

2.12 Renewable Energy (RES) Indicators

2.12.1 Renewable Energy (RES) Shares*

OVERALL AND HEATING & COOLING

%	Overall Renewable share (with aviation cap) [%]**				RES-H&C - Renewable Heating and Cooling [%]			
	2005	2010	2019	2020	2005	2010	2019	2020
EU27_2020	10.2%	14.4%	19.9%	22.1%	12.4%	17.0%	22.4%	23.1%
BE	2.3%	6.0%	9.9%	13.0%	3.4%	6.7%	8.3%	8.4%
BG	9.2%	13.9%	21.5%	23.3%	14.3%	24.3%	35.4%	37.2%
CZ	7.1%	10.5%	16.2%	17.3%	10.8%	14.1%	22.6%	23.5%
DK	16.0%	21.9%	37.0%	31.7%	22.8%	30.4%	47.3%	51.1%
DE	7.2%	11.7%	17.3%	19.3%	7.7%	12.1%	14.5%	14.8%
EE	17.4%	24.6%	31.7%	30.1%	32.2%	43.2%	52.2%	58.8%
IE	2.8%	5.8%	12.0%	16.2%	3.4%	4.3%	6.3%	6.3%
EL	7.3%	10.1%	19.6%	21.7%	13.4%	18.7%	30.0%	31.9%
ES	8.4%	13.8%	17.9%	21.2%	9.4%	12.6%	17.2%	18.0%
FR	9.6%	12.7%	17.2%	19.1%	12.4%	16.2%	22.4%	23.4%
HR	23.7%	25.1%	28.5%	31.0%	30.0%	32.9%	36.8%	36.9%
IT	7.5%	13.0%	18.2%	20.4%	8.2%	15.6%	19.7%	19.9%
CY	3.1%	6.2%	13.8%	16.9%	10.0%	18.8%	35.1%	37.1%
LV	32.3%	30.4%	40.9%	42.1%	42.7%	40.7%	57.7%	57.1%
LT	16.8%	19.6%	25.5%	26.8%	29.3%	32.5%	47.4%	50.4%
LU	1.4%	2.9%	8.7%	12.6%	3.6%	4.7%	8.7%	12.6%
HU	6.9%	12.7%	12.6%	13.9%	9.9%	18.1%	18.2%	17.7%
MT	0.1%	1.0%	8.2%	10.7%	1.0%	7.3%	23.6%	23.0%
NL	2.5%	3.9%	8.9%	14.0%	2.4%	3.1%	7.2%	8.1%
AT	24.4%	31.2%	33.8%	36.5%	22.8%	31.0%	33.9%	35.0%
PL	6.9%	9.3%	15.4%	16.1%	10.2%	11.8%	22.0%	22.1%
PT	19.5%	24.2%	30.6%	34.0%	32.1%	33.8%	41.7%	41.5%
RO	17.6%	22.8%	24.3%	24.5%	17.9%	27.2%	25.7%	25.3%
SI	19.8%	21.1%	22.0%	25.0%	26.4%	29.5%	32.1%	32.1%
SK	6.4%	9.1%	16.9%	17.3%	5.0%	7.9%	19.7%	19.4%
FI	28.8%	32.3%	42.7%	43.8%	39.1%	44.0%	56.9%	57.6%
SE	40.3%	46.6%	55.8%	60.1%	49.8%	58.5%	64.4%	66.4%

* 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 2022

Methodology and Notes: [see appendices](#)

2.12.1 Renewable Energy (RES) Shares*

ELECTRICITY AND TRANSPORT

%	RES-E Renewable Electricity Generation				RES-T Renewable Energy in Transport**			
	2005	2010	2019	2020	2005	2010	2019	2020
EU27_2020	16.4%	21.3%	34.1%	37.5%	2.0%	5.5%	8.8%	10.2%
BE	2.4%	7.2%	20.8%	25.1%	0.7%	4.8%	6.8%	11.0%
BG	8.7%	12.4%	23.5%	23.6%	0.9%	1.5%	7.9%	9.1%
CZ	3.8%	7.5%	14.0%	14.8%	1.1%	5.2%	7.8%	9.4%
DK	24.6%	32.7%	65.3%	65.3%	0.4%	1.2%	7.1%	9.7%
DE	10.6%	18.2%	40.6%	44.7%	4.0%	6.4%	7.6%	9.9%
EE	1.1%	10.3%	22.0%	28.3%	0.2%	0.4%	6.2%	12.2%
IE	7.2%	15.6%	36.5%	39.1%	0.1%	2.5%	8.9%	10.2%
EL	8.2%	12.3%	31.3%	35.9%	0.1%	1.9%	4.0%	5.3%
ES	19.1%	29.8%	37.1%	42.9%	1.3%	5.0%	7.6%	9.5%
FR	13.7%	14.8%	22.4%	24.8%	2.1%	6.6%	9.2%	9.2%
HR	35.2%	37.5%	49.8%	53.8%	1.0%	1.1%	5.9%	6.6%
IT	16.3%	20.1%	35.0%	38.1%	1.0%	4.9%	9.0%	10.7%
CY	0.0%	1.4%	9.8%	12.0%	0.0%	2.0%	3.3%	7.4%
LV	43.0%	42.1%	53.4%	53.4%	2.4%	4.0%	4.6%	6.7%
LT	3.8%	7.4%	18.8%	20.2%	0.7%	3.8%	4.0%	5.5%
LU	3.2%	3.8%	10.9%	13.9%	0.2%	2.1%	7.7%	12.6%
HU	4.4%	7.1%	10.0%	11.9%	1.0%	6.2%	8.1%	11.6%
MT	0.0%	0.0%	7.5%	9.5%	0.0%	0.0%	8.9%	10.6%
NL	6.3%	9.6%	18.2%	26.4%	0.5%	3.4%	12.3%	12.6%
AT	62.9%	66.4%	75.1%	78.2%	5.1%	10.7%	10.1%	10.3%
PL	2.7%	6.6%	14.4%	16.2%	1.7%	6.6%	6.2%	6.6%
PT	27.7%	40.6%	53.8%	58.0%	0.5%	5.5%	9.1%	9.7%
RO	28.8%	30.4%	42.6%	43.4%	1.9%	1.4%	7.8%	8.5%
SI	28.7%	32.2%	32.6%	35.1%	0.8%	3.1%	8.0%	10.9%
SK	15.7%	17.8%	22.1%	23.1%	1.7%	5.3%	8.3%	9.3%
FI	26.9%	27.7%	38.0%	39.6%	0.9%	4.4%	14.3%	13.4%
SE	50.9%	55.8%	71.2%	74.5%	6.6%	9.6%	30.3%	31.9%

* of the Gross Final Energy

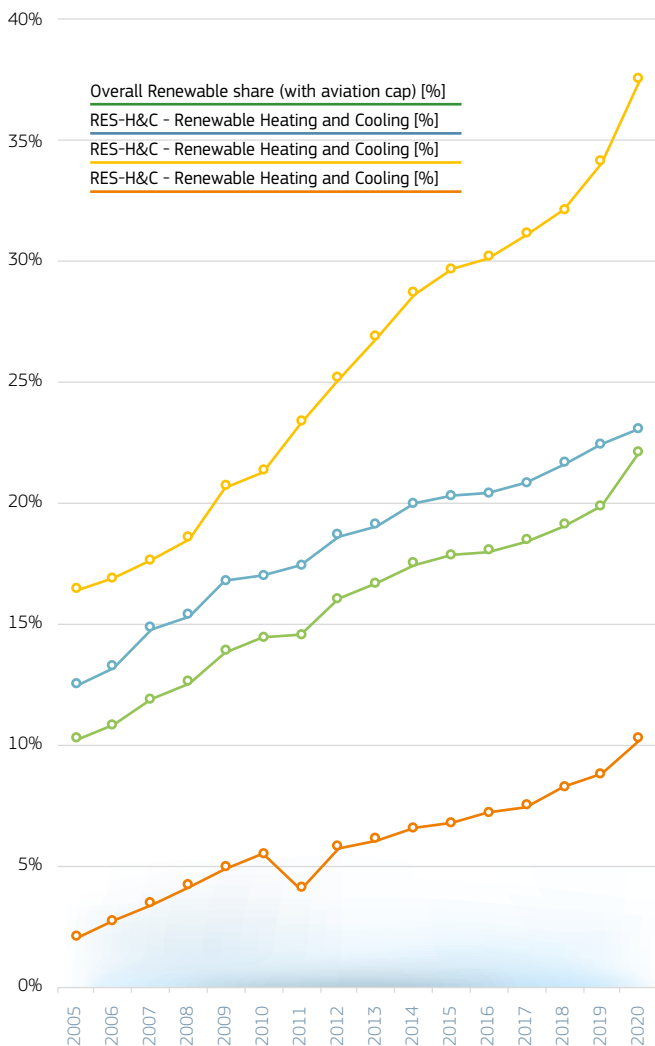
** 'Break in Series Between 2010 and 2011 due to the Application of the Biofuels Compliance Rules

source: Eurostat-RES SHARES March 2022

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 2022

Methodology and Notes: [see appendices](#)

2.13 Energy Prices and Taxes

2.13.1 Prices of Transport Fuels

AUTOMOTIVE DIESEL OIL – ALL TAXES INCLUDED*

Current Prices (€/litre)	2005	2010	2015	2020	2021	2022
EU27_2020	1.00	1.15	1.19	1.16	1.29	1.75
BE	0.99	1.14	1.16	1.29	1.42	1.88
BG		0.98	1.13	0.92	0.98	1.44
CZ	0.93	1.21	1.15	1.06	1.13	1.71
DK	1.03	1.21	1.28	1.22	1.34	1.89
DE	1.06	1.20	1.18	1.11	1.31	1.90
EE	0.80	1.10	1.08	1.10	1.19	1.70
IE	1.03	1.22	1.26	1.20	1.32	1.82
EL	0.89	1.24	1.18	1.19	1.30	1.74
ES	0.90	1.07	1.12	1.07	1.18	1.67
FR	1.02	1.14	1.15	1.26	1.37	1.81
HR			1.16	1.16	1.29	1.68
IT	1.11	1.21	1.41	1.32	1.42	1.76
CY	0.84	1.00	1.23	1.11	1.20	1.61
LV	0.80	1.06	1.06	1.05	1.17	1.66
LT	0.82	1.02	1.07	1.00	1.10	1.64
LU	0.84	0.99	1.02	0.97	1.14	1.68
HU	1.02	1.16	1.16	1.06	1.19	1.35
MT	0.88	1.04	1.27	1.24	1.21	1.21
NL	1.02	1.15	1.24	1.24	1.39	1.91
AT	0.95	1.10	1.12	1.05	1.16	1.69
PL	0.92	1.06	1.08	1.01	1.12	1.44
PT	0.94	1.15	1.19	1.24	1.36	1.77
RO		1.03	1.20	0.96	1.08	1.55
SI	0.91	1.15	1.18	1.06	1.19	1.50
SK	0.97	1.11	1.14	1.07	1.16	1.58
FI	0.97	1.13	1.31	1.26	1.45	2.06
SE	1.08	1.25	1.37	1.38	1.56	2.29

*first semester 2022 (03/01/22 -27/06/22)

Source: DG Energy, Member States, Weekly Oil Bulletin
Methodology and Notes: [see appendices](#)

2.13.1 Prices of Transport Fuels

EURO-SUPER 95 – ALL TAXES INCLUDED*

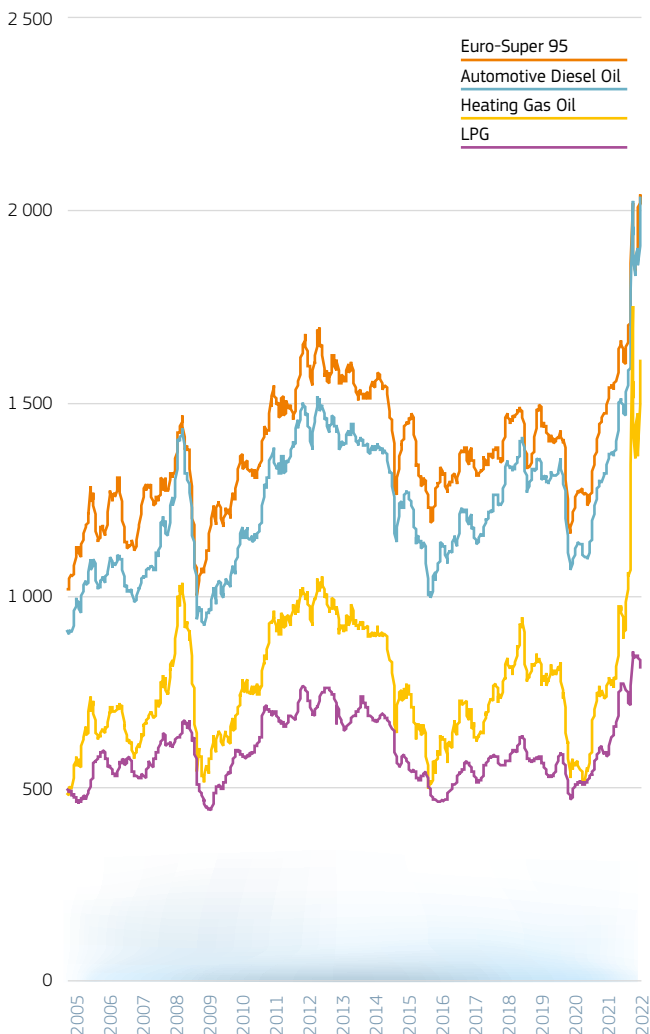
Current Prices (€/litre)	2005	2010	2015	2020	2021	2022
EU27_2020	1.13	1.31	1.35	1.28	1.43	1.85
BE	1.22	1.40	1.37	1.28	1.40	1.82
BG		1.02	1.10	0.93	1.00	1.43
CZ	0.95	1.25	1.15	1.07	1.19	1.71
DK	1.21	1.44	1.50	1.45	1.61	2.10
DE	1.22	1.39	1.40	1.29	1.50	1.97
EE	0.80	1.11	1.11	1.25	1.35	1.83
IE	1.05	1.30	1.37	1.29	1.42	1.86
EL	0.89	1.43	1.48	1.45	1.57	2.05
ES	0.96	1.16	1.23	1.18	1.31	1.78
FR	1.16	1.34	1.36	1.36	1.49	1.88
HR			1.26	1.20	1.34	1.65
IT	1.22	1.36	1.54	1.43	1.55	1.88
CY	0.86	1.04	1.23	1.08	1.17	1.51
LV	0.81	1.09	1.13	1.14	1.27	1.76
LT	0.83	1.18	1.16	1.10	1.20	1.70
LU	1.02	1.16	1.18	1.08	1.25	1.70
HU	1.05	1.22	1.16	1.02	1.17	1.28
MT	0.94	1.19	1.36	1.37	1.34	1.34
NL	1.35	1.49	1.56	1.57	1.73	2.16
AT	1.03	1.19	1.20	1.08	1.20	1.70
PL	1.00	1.13	1.11	1.00	1.13	1.41
PT	1.15	1.37	1.43	1.39	1.55	1.92
RO		1.06	1.20	0.95	1.10	1.51
SI	0.92	1.20	1.29	1.07	1.15	1.48
SK	0.96	1.25	1.29	1.18	1.32	1.68
FI	1.22	1.43	1.47	1.41	1.59	2.15
SE	1.18	1.34	1.41	1.35	1.53	0.00

*first semester 2022 (03/01/22 -27/06/22)

Source: DG Energy, Member States, Weekly Oil Bulletin
Methodology and Notes: [see appendices](#)

2.13.1 Prices of Transport Fuels

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



*first semester 2022 (03/01/22 -27/06/22)

*All Taxes Included, weekly prices

Incomplete series for the period 2005-2013

due to later accession to the EU of Bulgaria, Croatia and Romania

Source: DG Energy, Member States, Weekly Oil Bulletin

Methodology and Notes: [see appendices](#)

2.13.2 Fuel Prices* – Domestic Consumers

GAS – BAND D2

20GJ < CONSUMPTION < 200GJ – 2ND SEMESTER**

€/GJ (GCV)	2009	2010	2015	2019	2020	2021
EU27_2020	15.50	17.22	20.14	19.99	19.38	21.72
BE	14.33	16.78	17.24	15.92	13.84	18.78
BG	9.67	11.98	10.86	12.27	9.67	19.65
CZ	13.11	14.35	16.21	16.32	15.51	15.40
DK	23.64	26.81	24.48	21.41	20.74	34.64
DE	16.35	15.86	18.93	16.33	17.21	19.23
EE	10.07	11.14	10.68	12.38	11.43	20.82
IE	15.29	14.63	20.11	21.22	19.49	21.74
EL			20.83	16.30	14.37	28.16
ES	14.88	15.00	26.57	28.35	24.71	30.06
FR	16.20	15.98	20.35	23.31	20.87	21.89
HR	9.10	10.54	12.76	11.28	10.49	11.04
IT	14.84	21.86	25.13	25.96	24.92	27.91
CY						
LV	10.52	11.28	13.47	9.74	7.77	12.01
LT	11.29	12.59	12.12	11.27	8.21	11.38
LU	12.82	13.13	13.40	11.49	10.17	17.76
HU	13.23	15.38	9.78	9.29	8.56	8.47
MT						
NL	18.73	19.99	22.30	26.80	28.05	30.47
AT	17.23	16.71	19.75	18.73	18.23	19.30
PL	12.78	14.04	13.84	12.91	11.65	13.13
PT	16.52	17.49	27.28	21.56	21.74	21.46
RO	7.45	7.73	9.45	9.23	8.90	13.19
SI	14.96	18.68	16.91	15.59	15.26	16.32
SK	13.21	12.39	13.74	13.35	13.33	11.75
FI						
SE	26.12	29.48	32.58	32.43	29.80	51.52

* All Taxes and levies Included

**Prices from second semester each year

source: Eurostat June 2022

Methodology and Notes: [see appendices](#)

2.13.2 Fuel Prices* – Domestic Consumers

ELECTRICITY – BAND DC

2 500 kWh < CONSUMPTION < 5 000 kWh

2ND SEMESTER**

€/100 kWh	2009	2010	2015	2019	2020	2021
EU27_2020	16.77	17.77	20.89	21.70	21.34	23.69
BE	18.64	19.74	23.52	28.60	27.02	29.94
BG	8.18	8.30	9.57	9.58	9.82	10.91
CZ	15.33	15.49	14.08	17.70	17.95	18.83
DK	25.55	27.08	30.42	29.24	28.19	34.48
DE	22.94	24.38	29.46	28.78	30.06	32.34
EE	9.20	10.04	12.91	14.11	12.91	19.39
IE	18.55	18.75	24.54	25.46	26.16	29.74
EL	10.32	12.11	17.71	15.51	16.41	19.74
ES	16.84	18.51	23.70	23.94	22.98	28.16
FR	12.07	13.50	16.82	19.13	19.58	20.22
HR	11.64	11.53	13.12	13.24	13.07	13.13
IT	19.97	19.20	24.28	23.41	21.53	23.60
CY	16.42	20.21	18.38	22.36	16.98	23.04
LV	10.54	10.48	16.50	16.40	14.32	18.86
LT	9.26	12.16	12.43	12.54	13.21	14.77
LU	18.82	17.47	17.67	17.99	19.85	19.89
HU	16.62	15.74	11.45	10.97	10.09	10.01
MT	15.13	16.53	12.69	13.04	13.01	13.17
NL	19.06	17.89	18.46	20.55	13.61	14.49
AT	19.09	19.30	19.83	20.74	21.67	22.85
PL	12.91	13.82	14.18	13.76	15.10	15.74
PT	15.94	16.66	22.85	21.81	21.33	21.70
RO	9.79	10.52	13.19	14.21	14.49	16.02
SI	13.41	14.26	16.31	16.66	16.94	17.11
SK	15.60	16.37	15.17	15.85	17.24	16.24
FI	12.89	13.70	15.30	17.83	17.73	18.40
SE	16.46	19.58	18.74	20.76	17.18	26.04

* All Taxes and levies Included

**Prices from second semester each year

source: Eurostat June 2022

Methodology and Notes: [see appendices](#)

2.13.3 Fuel Prices* – Industrial Consumers

GAS – BAND I3

10000 GJ < CONSUMPTION < 100000 GJ

2ND SEMESTER**

€/GJ (GCV)	2009	2010	2015	2019	2020	2021
EU27_2020	8.61	9.42	9.53	8.53	7.77	11.55
BE	8.50	8.20	7.94	6.32	5.76	9.45
BG	5.96	8.41	7.49	7.75	5.60	14.11
CZ	7.56	10.07	8.17	7.95	7.01	9.12
DK	6.85	10.72	10.19	8.38	8.19	21.99
DE	9.61	11.09	10.47	8.32	8.02	10.54
EE	6.39	7.85	7.54	9.26	6.88	18.61
IE	7.31	8.80	10.28	8.94	8.73	15.49
EL			10.00	9.28	5.92	13.87
ES	7.53	8.08	8.81	8.53	6.52	9.38
FR	8.80	9.69	10.19	10.22	9.71	14.00
HR	7.43	10.95	9.74	8.32	7.51	10.61
IT	7.83	8.34	8.87	8.22	7.23	11.17
CY						
LV	7.69	8.84	8.17	7.76	5.89	12.53
LT	7.55	9.40	6.05	7.63	5.91	19.97
LU	10.03	11.72	10.33	7.90	7.88	12.67
HU	10.06	9.93	9.38	7.60	6.14	12.83
MT						
NL	9.72	8.62	8.91	7.90	7.72	12.47
AT	9.07	9.78	10.50	8.60	8.31	13.24
PL	8.36	9.02	9.39	9.33	8.09	11.43
PT	7.22	9.28	10.52	8.70	6.73	9.37
RO	5.93	6.11	8.05	8.76	6.78	12.15
SI	9.61	11.81	10.57	9.40	8.74	12.74
SK	8.91	10.22	9.63	9.92	8.88	9.13
FI	8.00	9.13	11.73	15.41	13.62	28.03
SE	12.47	13.43	11.61	9.92	10.40	22.02

* Excluding VAT and other recoverable taxes and levies

**Prices from second semester each year

source: Eurostat June 2022

Methodology and Notes: [see appendices](#)

2.13.3 Fuel Prices – Industrial Consumers

FUELS PRICES – INDUSTRIAL CONSUMERS*

ELECTRICITY - BAND IC : 500 MWH < CONSUMPTION < 2 000 MWH

2ND SEMESTER**

€/100 kWh	2009	2010	2015	2019	2020	2021
EU27_2020	10.11	10.42	11.44	11.90	12.52	14.45
BE	10.79	10.54	10.81	11.52	11.85	14.39
BG	6.39	6.64	7.82	8.68	8.43	18.07
CZ	11.22	10.81	7.83	7.84	8.42	9.05
DK	9.20	9.61	8.99	6.81	6.86	11.64
DE	11.34	11.90	14.93	16.08	18.18	18.60
EE	6.45	7.27	9.58	9.15	8.73	15.26
IE	11.75	11.31	13.57	13.28	13.39	18.81
EL	9.36	10.26	11.50	10.84	10.59	22.38
ES	11.20	10.93	11.33	11.04	11.75	14.59
FR	6.48	7.16	9.51	9.50	9.54	10.18
HR	9.04	9.04	9.28	10.55	10.23	11.42
IT	13.70	14.43	15.97	16.16	15.14	18.53
CY	14.94	17.30	14.12	18.00	13.64	19.46
LV	8.93	9.07	11.83	10.70	10.55	13.51
LT	7.90	10.46	9.97	9.45	10.26	13.96
LU	11.58	10.24	8.93	9.04	9.38	9.74
HU	12.97	10.53	8.70	9.54	9.40	10.32
MT	12.91	18.10	14.05	13.55	13.47	13.44
NL	10.61	9.70	8.46	8.99	10.35	12.38
AT	11.62	11.28	10.47	10.88	11.84	12.78
PL	9.33	9.87	8.61	8.28	10.77	11.04
PT	9.44	9.20	11.54	11.59	11.14	11.86
RO	8.28	8.08	8.02	10.14	10.19	12.93
SI	9.62	10.05	8.70	9.53	9.76	9.99
SK	14.03	11.98	11.22	13.17	13.16	13.45
FI	6.83	6.83	7.06	7.21	7.59	8.00
SE	6.89	8.41	5.90	6.94	5.88	9.82

* Excluding VAT and other recoverable taxes and levies

**Prices from second semester each year

source: Eurostat June 2022

Methodology and Notes: [see appendices](#)

3

Socio-Economic indicators in the EU



3

Socio-Economic indicators in the EU

Summary

3.1	Classification of the Energy Sector	140
3.1.1	Comparative Table Eurostat (NACE) and UN (ISIC) 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 Market Prices	153
3.3.2	GDP per Capita at Current Market Prices	154
3.3.3	GDP at 2015 Market Prices	155
3.3.4	GDP per Capita at 2015 Market Prices	156
3.4	Demography	157
3.4.1	Population	157
3.5	Employment	158
3.5.1	Total Persons Employed	158
3.5.2	Employment Rate	159
3.5.3	Unemployment Rate	160

3.1 Classification of the Energy Sector *

3.1.1 Comparative Table Eurostat (NACE) and UN (ISIC) Classifications

EUROSTAT (NACE) AND UN (ISIC) CLASSIFICATIONS

NACE rev 2	ISIC 4
B05: Mining of Coal and Lignite	
05.10: Mining of Hard Coal	05.10
05.20: Mining of Lignite	05.20
B06: Extraction of Crude Petroleum and Natural Gas	
06.10: Extraction of Crude Petroleum	06.10
06.20: Extraction of Natural Gas	06.20
B07: Mining of Metal Ores	
07.21: Mining of Uranium and Thorium Ores	07.21
B08: Other Mining and Quarrying	
08.92: Extraction of Peat	08.92
B09: Mining Support Service Activities	
09.10: Support Activities for Petroleum and Natural Gas Extraction	09.10
C19: Manufacture of Coke and Refined Petroleum Products	
19.10: Manufacture of Coke Oven Products	19.10
19.20: Manufacture of Refined Petroleum Products	19.20
D35: Electricity, Gas, Steam and Air Conditioning Supply	
35.11: Production of Electricity	35.10
Power Generation, Hydroelectric	
Power Generation, Fossil Fuel	
Power Generation, Nuclear	
Electric Power Generation, Solar	
Electric Power Generation, Wind	
Electric Power Generation, Geothermal	
Electric Power Generation, Biomass	
Electric Power Generation, Tidal	
35.12: Transmission of Electricity	
35.13: Distribution of Electricity	
35.14: Trade of Electricity	
35.21: Manufacture of Gas	35.20
35.22: Distribution of Gaseous Fuels through Mains	
35.23: Trade of Gas through Mains	
35.30: Steam and Air Conditioning Supply	35.30

* Broad Definition, The Narrow Definition only Includes Division D35

Source: Eurostat, UN, July 2019

3.2 Enterprises in the Energy Sector

3.2.1 Number of Enterprises in the Energy Sector

ENTERPRISES SURVEY EU27_2020

	2015	2019	2020
B05 - Mining of coal and lignite	245	163	140
B06 - Extraction of crude petroleum and natural gas	220	207	246
B0721 - Mining of uranium and thorium ores	4		1
B0892 - Extraction of peat	981	900	892
B091 - Support activities for petroleum and natural gas extraction	851	1000	1022
C19 - Manufacture of coke and refined petroleum products	866	860	780
D35 - Electricity, gas, steam and air conditioning supply	96893	173000	174296
D351 - Electric power generation, transmission and distribution	89157	160000	162138
D3511 - Production of electricity	72187	153086	153086
D3512 - Transmission of electricity	229		649
D3513 - Distribution of electricity	1515	2598	2598
D3514 - Trade of electricity	3192	5165	5165
D352 - Manufacture of gas; distribution of gaseous fuels through mains	1870		5472
D3521 - Manufacture of gas		4020	4020
D3522 - Distribution of gaseous fuels through mains			535
D3523 - Trade of gas through mains	599	738	645
D353 - Steam and air conditioning supply	5359	6060	6014
D3530 - Steam and air conditioning supply	5359	6060	6014
Broad sector - no. of enterprises reported	100060	176130	177377

Italics, blue: DG ENER estimates
source: Eurostat, Structural Business Statistics Survey (SBS), May 2022
Methodology and Notes in the annexes

3.2.1 Number of Enterprises in the Energy Sector

NUMBER OF ENTERPRISES ENTERPRISES SURVEY

	Mining of Coal and Lignite (B05)				Extraction of Crude Petroleum and Natural Gas (B06)			
	2010	2015	2019	2020	2010	2015	2019	2020
EU27_2020			163	140	245	220	207	246
BE		0	0	0	0	0	0	0
BG	23	22	17	16	7	4	4	4
CZ	12	12	9	8	5	5	5	5
DK	0	0	0	0	9	12	14	14
DE	6	7	7	7	4	4	5	5
EE	0	0	0	0	1	2	2	2
IE				0				
EL		12	10	7				3
ES	48	81	64	51	4	19		11
FR	6	1	0	0	32			18
HR	1	0	0	0	4	4	2	0
IT		0	0	0	3	12	11	11
CY	0	0	0	0	0	0	0	0
LV	0	0	0	0	1	2	1	1
LT	0	0	0	0	4	4	5	5
LU	0	0	0	0	0	0	0	0
HU	9	14	11	4	13	8	11	10
MT	0	0	0	0	0	0	0	0
NL	0	0	0	0	48	41	47	39
AT	0	0	0	0	2	2	2	2
PL	48	62	41	33	54	62	20	23
PT	0	0	0	0	0	0	0	0
RO	35	27	15	13	21	38	25	25
SI	2	1	1	1	1	1	2	2
SK				0				0
FI	0	0	0	0	0	0	0	0
SE		0	0	0		0	0	0

Italics, blue: DG ENER estimates

source: Eurostat, Structural Business Statistics Survey (SBS), May 2022

Methodology and Notes in the annexes

3.2.1 Number of Enterprises in the Energy Sector

NUMBER OF ENTERPRISES

ENTERPRISES SURVEY

	Extraction of Peat (B08.92)				Support Activities for Petroleum and Natural Gas Extraction (B09.1)			
	2010	2015	2019	2020	2010	2015	2019	2020
EU27_2020	985	981	900	940	540	851	1000	1022
BE	0	0	0	0				0
BG	10	4			6	14	12	9
CZ		17	10	10	7	6	10	7
DK	4	2	2	2	35	55	6	6
DE	74	91	70	70			76	70
EE	39	41	40	40	0	0	59	59
IE					34	35	0	0
EL	0					9	36	43
ES	6	7	6	6		46	5	4
FR	23	39	8	8	36	54	46	38
HR	0	0	0	0	7	4	25	20
IT	12	4				52	4	4
CY	0	0	0	0			36	30
LV	49	91	97	97	0	2		
LT	24	26	24	24	0	0	2	0
LU	0	0	0	0	0	0	0	0
HU	15	13	12	12	40	37	0	0
MT	0	0	0	0			38	31
NL	7	6	6	6	116	251		11
AT	7	5	3	3	8	7	347	394
PL	45	32	43	43	90	104	7	7
PT	1	1	1	1	1	4	151	146
RO	8	5	4	4	91	106	9	5
SI	0	0	0	0	3	2	100	100
SK		42	67				4	2
FI	463	450	445	445	0	0		
SE	82	70	54	54	45	63	0	0

Italics, blue: DG ENER estimates

source: Eurostat, Structural Business Statistics Survey (SBS), May 2022

Methodology and Notes in the annexes

3.2.1 Number of Enterprises in the Energy Sector

NUMBER OF ENTERPRISES ENTERPRISES SURVEY

	Manufacture of Coke and Refined Petroleum Products (C19)				Electricity, Gas, Steam and Air Conditioning Supply (D35)			
	2010	2015	2019	2020	2010	2015	2019	2020
EU27_2020		866	860	780		96893	173000	174296
BE	22		17	15	301	851	726	734
BG	17	11	10	12	1091	1745	1625	2027
CZ	28	25	22	24	3267	10996	11894	11907
DK	5	3	6	8	1681	1745	1561	1516
DE	95	54	89	86	1722	2059	72797	72797
EE	5	5	6	6	223	230	248	346
IE					403	515	663	677
EL	7	40	35	34	10	7036	7760	7544
ES	18	14		15	13098	14044	15003	14052
FR	52	43	21	18	14337	27062	29113	29717
HR	17	14	9	8	234	573	599	569
IT	328	281	259	250	4028	10775	9423	9423
CY			3	3	4	58	95	93
LV	13	16	14	10	381	533	522	503
LT	6	9	7	6	253	1488	1338	1252
LU	0	0	0	1	67	80	94	97
HU	9	8	8	6	611	610	1145	1258
MT						3		14
NL	42	45	38	46	678	1130	1731	2112
AT	4	5	5	5	1878	2390	2352	2200
PL	165	176	133	123	2047	3192	3581	3938
PT	10	18	20	17	745	1209	4501	5342
RO	54	44	49	46	885	1460	1039	1073
SI	3	4	3	3	648	1530	1375	1362
SK					294	451	597	592
FI	15	17	14	16	736	907	952	987
SE	45	34	25	22	1828	4221	2190	2164

Italics, blue: DG ENER estimates

source: Eurostat, Structural Business Statistics Survey (SBS), May 2022

Methodology and Notes in the annexes

3.2.2 Turnover in the Energy Sector

TURNOVER ENTERPRISES SURVEY EU27_2020

Mio €	2015	2019	2020
B05 - Mining of coal and lignite	<i>10602</i>	7121	<i>5774</i>
B06 - Extraction of crude petroleum and natural gas	84723	29951	<i>24307</i>
B0721 - Mining of uranium and thorium ores			
B0892 - Extraction of peat	1288	<i>1738</i>	<i>1335</i>
B091 - Support activities for petroleum and natural gas extraction	4455	3176	<i>4716</i>
C19 - Manufacture of coke and refined petroleum products	330409	461595	<i>295482</i>
D35 - Electricity, gas, steam and air conditioning supply	1310101	1470000	<i>1372050</i>
D351 - Electric power generation, transmission and distribution	1076224	1221016	<i>1144866</i>
D3511 - Production of electricity	179021	535685	<i>430173</i>
D3512 - Transmission of electricity	15340	77963	<i>64650</i>
D3513 - Distribution of electricity	48033	140798	<i>124431</i>
D3514 - Trade of electricity	263846	466570	<i>429939</i>
D352 - Manufacture of gas; distribution of gaseous fuels through mains	185470	210000	<i>200000</i>
D3521 - Manufacture of gas	408	2418	<i>2418</i>
D3522 - Distribution of gaseous fuels through mains	11726	30962	<i>23895</i>
D3523 - Trade of gas through mains	76229	178746	<i>159490</i>
D353 - Steam and air conditioning supply	34939	36074	<i>29694</i>
D3530 - Steam and air conditioning supply	34939	36074	<i>35336</i>
Broad sector - turnover reported	1741579	1973580	<i>1703664</i>

Italics, blue: DG ENER estimates
source: Eurostat, Structural Business Statistics Survey (SBS), May 2022
Methodology and Notes in the annexes

3.2.2 Turnover in the Energy Sector

TURNOVER
ENTERPRISES SURVEY

Mio €	Mining of Coal and Lignite (B05)				Extraction of Crude Petroleum and Natural Gas (B06)			
	2010	2015	2019	2020	2010	2015	2019	2020
EU27_2020	14838	10602	7121	5774		84723	29951	24307
BE		0	0	0	0	0	0	0
BG	331	349			26	30		
CZ	2812	1578	1336	1045				
DK	0	0	0	0	7050	3896	1815	1100
DE	3921	2162			2762	2978	13720	5500
EE	0	0	0	0		245	203	134
IE								
EL		93		40				65
ES	596	236		17	80	126		232
FR		0	0	0	728			
HR		0	0	0				0
IT		0	0	0	46241	46395	4840	4840
CY	0	0	0	0	0	0	0	0
LV	0	0	0	0				
LT	0	0	0	0	69	39	32	18
LU	0	0	0	0	0	0	0	0
HU	7	9		3	81	33	207	136
MT	0	0	0	0	0	0	0	0
NL	0	0	0	0	34862	26735	14369	8266
AT	0	0	0	0				
PL	5974	5755	4686	3761			133	
PT	0	0	0	0	0	0	0	0
RO	358	21	10	12	4191	4246	1478	3971
SI								
SK								
FI	0	0	0	0	0	0	0	0
SE						0	0	0

Italics, blue: DG ENER estimates

source: Eurostat, Structural Business Statistics Survey (SBS), May 2022

Methodology and Notes in the annexes

3.2.2 Turnover in the Energy Sector

TURNOVER ENTERPRISES SURVEY

Mio €	Extraction of Peat (B08.92)				Support Activities for Petroleum and Natural Gas Extraction (B09.1)			
	2010	2015	2019	2020	2010	2015	2019	2020
EU27_2020	1700	1288	1738	1335		4455	3176	4716
BE	0	0	0	0			0	
BG	1					0		
CZ		7	3	3	46			
DK						633	1288	598
DE	418	400	413	413			366	205
EE	77	84		90	0	0	0	0
IE					74	10	22	22
EL	0					29	24	22
ES	11	10	11	11		99	64	137
FR	74	52	44	44	302	266	314	322
HR	0	0	0	0			0	
IT	12	5		5		2238	423	338
CY	0	0	0	0				
LV	101	151	204	204				0
LT	40	61			0	0	0	0
LU	0	0	0	0	0	0	0	0
HU	3	5	6	6	95	133	34	24
MT	0	0	0	0				
NL								
AT					14			
PL			68		378	326		293
PT								1
RO	0	1	3	3	874	638	633	476
SI	0	0	0	0			2	
SK		12	17					
FI	554	472	455	455	0	0	0	0
SE	31	29	17	17		84	5	5

Italics, blue: DG ENER estimates

source: Eurostat, Structural Business Statistics Survey (SBS), May 2022

Methodology and Notes in the annexes

3.2.2 Turnover in the Energy Sector

TURNOVER
ENTERPRISES SURVEY

Mio €	Manufacture of Coke and Refined Petroleum Products (C19)				Electricity, Gas, Steam and Air Conditioning Supply (D35)			
	2010	2015	2019	2020	2010	2015	2019	2020
EU27_2020	477437	330409	461595	295482	1116322	1310101	1470000	1372050
BE	48074		41444	25092	43772	36969	26439	24978
BG			4045		7279	8357	8500	7955
CZ	4558				37371	40927	52990	46173
DK					20378	21487	42620	36832
DE	120832	107408	102265	53389	426882	537677	625119	608980
EE	178	254	305	245	1834	1765	1966	1828
IE					7186	8013	10639	10433
EL	15340	14818	16689	10901	5943	19684	14829	14110
ES	34773	36051		33460	59706	93787	93728	79635
FR	61248	39383	41865	27386	109649	110123	120099	114202
HR					3684	4359	3584	3912
IT	46038	35596	50198	41910	160950	195056	217027	191966
CY			4		782	630	857	701
LV	1	8			2311	2082	2071	1756
LT					3279	2376	2607	2426
LU	0	0	0		1951	4647	3879	3458
HU	8298	6529	9056	6691	22059	16727	15797	12050
MT								653
NL	37272	34362	35684	23276	41197	31409	30793	28576
AT		7226	9647	6354	29297	35906	47682	40483
PL	27575	27045	34748	25555	42567	47826	52537	52652
PT	6767	7131	8105	4671	17842	21119	21379	19335
RO	3272	3374	12247	2645	12078	13175	13872	13294
SI					4034	6076	7263	7012
SK					11351	11284	12725	12147
FI					14455	12422	14524	13240
SE		11225	11948	8364	28486	26220	25472	23264

Italics, blue: DG ENER estimates

source: Eurostat, Structural Business Statistics Survey (SBS), May 2022

Methodology and Notes in the annexes

3.2.3 Number of Persons Declared as Employed in the energy sector

NUMBER OF PERSONS DECLARED AS EMPLOYED ENTERPRISES SURVEY EU27_2020

	2015	2019	2020
B05 - Mining of coal and lignite	148224	113936	<i>97841</i>
B06 - Extraction of crude petroleum and natural gas	56621	16340	<i>26056</i>
B0721 - Mining of uranium and thorium ores			
B0892 - Extraction of peat	<i>10714</i>	7088	<i>150</i>
B091 - Support activities for petroleum and natural gas extraction	<i>36816</i>	0	<i>14778</i>
C19 - Manufacture of coke and refined petroleum products	<i>113733</i>	0	<i>120181</i>
D35 - Electricity, gas, steam and air conditioning supply	1090709	1324869	<i>1125535</i>
D351 - Electric power generation, transmission and distribution	809201	870838	<i>884073</i>
D3511 - Production of electricity	222839	453077	<i>453077</i>
D3512 - Transmission of electricity	39376	39330	<i>39330</i>
D3513 - Distribution of electricity	111958	109222	<i>198552</i>
D3514 - Trade of electricity	46126	135247	<i>135247</i>
D352 - Manufacture of gas; distribution of gaseous fuels through mains	99864	91980	<i>71323</i>
D3521 - Manufacture of gas	918	10766	<i>10766</i>
D3522 - Distribution of gaseous fuels through mains	41664	33070	<i>33070</i>
D3523 - Trade of gas through mains	26052	21512	<i>21512</i>
D353 - Steam and air conditioning supply	143299	137029	<i>80979</i>
D3530 - Steam and air conditioning supply	143299	135799	<i>135799</i>
Broad Sector - Employment Reported	1456817	1462233	<i>1384541</i>

Italics, blue: DG ENER estimates

source: Eurostat, Structural Business Statistics Survey (SBS), May 2022

Methodology and Notes in the annexes

3.2.3 Number of Persons Declared as Employed in the energy sector

NUMBER OF PERSONS DECLARED AS EMPLOYED ENTERPRISES SURVEY

	Mining of Coal and Lignite (B05)				Extraction of Crude Petroleum and Natural Gas (B06)			
	2010	2015	2019	2020	2010	2015	2019	2020
EU27_2020	148224	113936	97841		56621	16340	26056	
BE		0	0	0	56621	16340	26056	
BG	13269	11995			0	0	0	0
CZ	24265	18716	13676	12450				
DK	0	0	0	0				
DE	33672	17468			566	1051	1565	1313
EE	0	0	0	0	3754	3927		
IE					3043	2197	1523	
EL		316		273				
ES	6105	1684		276				355
FR	28	2	0		242	368		196
HR		0	0	0	814			
IT		0	0	0		7852	50	0
CY	0	0	0	0	12116	12681	2189	2189
LV	0	0	0	0	0	0	0	0
LT	0	0	0	0	1	20	12	13
LU	0	0	0	0	252	212	137	109
HU	111	124		54	0	0	0	0
MT	0	0	0	0	75	68	129	114
NL	0	0	0	0	0	0	0	0
AT	0	0	0	0	3173	3913	2933	2868
PL	124925	96076	84324	84527				
PT	0	0	0	0			562	
RO	18011	1843	548	261	0	0	0	0
SI					30546	23486	6566	17376
SK								
FI	0	0	0	0	0			0
SE					0	0	0	0
						0	0	0

Italics, blue: DG ENER estimates

source: Eurostat, Structural Business Statistics Survey (SBS), May 2022

Methodology and Notes in the annexes

3.2.3 Number of Persons Declared as Employed in the energy sector

NUMBER OF PERSONS DECLARED AS EMPLOYED ENTERPRISES SURVEY

	Extraction of Peat (B08.92)				Support Activities for Petroleum and Natural Gas Extraction (B09.1)			
	2010	2015	2019	2020	2010	2015	2019	2020
EU27_2020	<i>10714</i>	<i>7088</i>	<i>150</i>		<i>36816</i>	<i>0</i>	<i>14778</i>	
BE	0	0	0	0			12	
BG	52	55			14	25	16	12
CZ		71	40	40	421			
DK						1587	2045	1835
DE	2003	1762	1654	1654			1553	1525
EE	1153	963			0	0	0	0
IE					35	29	112	115
EL	0					276	100	80
ES	48	36	40	40		191	124	152
FR	248	130			110	386	457	
HR	0	0	0	0		2273	5	5
IT	12	21				2188	1580	1527
CY	0	0	0	0	0			
LV	1977	2158	2200	2200	0	2	1	0
LT	1126	1149			0	0	0	0
LU	0	0	0	0	0	0	0	0
HU	116	97	63	63	1089	1062	271	217
MT	0	0	0	0				
NL	22	104	239	239				
AT					27			
PL			671		4082	4638		3913
PT								11
RO	26	25	48	48	6267	6771	5306	5127
SI	0	0	0	0				
SK		114	112					
FI	1845	1977	1923	1923	0	0	0	0
SE	306	165	98	98		75	49	48

Italics, blue: DG ENER estimates

source: Eurostat, Structural Business Statistics Survey (SBS), May 2022

Methodology and Notes in the annexes

3.2.3 Number of Persons Declared as Employed in the energy sector

NUMBER OF PERSONS DECLARED AS EMPLOYED ENTERPRISES SURVEY

	Manufacture of Coke and Refined Petroleum Products (C19)				Electricity, Gas, Steam and Air Conditioning Supply (D35)			
	2010	2015	2019	2020	2010	2015	2019	2020
EU27_2020		113733	0	120181		1090709	1324869	1125535
BE	4091		5999	4548	19193	20293	22460	18086
BG		2078	2460	2474	34191	31751	31525	31368
CZ	2747				31480	34536	40468	40197
DK					11235	13815	11330	12378
DE	19452	22302	22401	21946	221264	224669	387355	401068
EE	1406	1679	1270	1193	5681	4949	4834	4813
IE					9117	8846	9562	9577
EL	4333	3588	5404	4807	22834	25764	31556	29977
ES	8954	8453		13061	48687	39764	47311	43721
FR	15095				170194	190364	211814	
HR		262	9594	9006	16619	14893	14685	14671
IT	16493	11065	11881	11666	86414	89109	90618	91444
CY			38		2470	2130	2219	2214
LV	12	65	55	26	10907	11344	9882	9650
LT					15876	13522	12220	11906
LU	0	0	0		1196	1529	1772	1835
HU	6329	5691	11712	10548	25715	24601	27807	32566
MT						10		226
NL	5908	5299	5647	5579	22882	27969	28737	29353
AT		1180	2217	2512	28685	29168	32186	32638
PL	13623	13495	20864	21027	162409	128183	152010	151824
PT	1971	1830	1871	1846	9496	9589	13357	14299
RO	3960	2560	20489	2161	81111	72333	65342	64385
SI		26			8207	8958	8637	8624
SK					20034	17873	17597	17245
FI					13463	13368	13665	14136
SE		2879	3385		31115	31379	35920	37334

Italics, blue: DG ENER estimates

source: Eurostat, Structural Business Statistics Survey (SBS), May 2022

Methodology and Notes in the annexes

3.3 Economy

3.3.1 GDP at Current Market Prices

Mrd EUR*	2005	2010	2015	2017	2019	2020
EU27_2020	9563.5	10979.5	12211.5	13076.9	14016.5	13411.8
BE	310.0	363.1	416.7	445.1	478.2	456.7
BG	24.0	38.1	45.7	52.5	61.6	61.3
CZ	110.3	157.9	169.6	194.1	225.6	215.8
DK	212.8	243.2	273.0	294.8	309.5	311.8
DE	2288.3	2564.4	3026.2	3267.2	3473.3	3405.4
EE	11.3	14.9	20.8	23.8	27.7	26.8
IE	170.2	167.7	262.9	297.8	356.7	372.8
EL	199.2	224.1	176.1	176.9	183.3	165.3
ES	927.4	1072.7	1077.6	1161.9	1244.4	1121.9
FR	1765.9	1995.3	2198.4	2297.2	2437.6	2310.5
HR	36.5	45.2	44.6	49.9	55.6	50.2
IT	1493.6	1611.3	1655.4	1736.6	1796.6	1657.0
CY	15.0	19.4	17.9	20.2	23.0	21.6
LV	13.8	17.9	24.6	27.0	30.6	29.5
LT	21.0	28.0	37.3	42.3	48.9	49.5
LU	30.0	40.2	52.1	58.2	62.7	64.2
HU	90.9	99.6	112.7	127.0	146.1	137.4
MT	5.2	6.8	10.0	11.9	14.0	13.1
NL	550.9	639.2	690.0	738.1	813.1	796.5
AT	254.1	295.9	344.3	369.4	397.5	379.3
PL	246.2	362.2	430.5	467.4	533.6	526.4
PT	158.6	179.6	179.7	195.9	214.4	200.1
RO	79.2	125.5	160.1	187.8	223.2	218.9
SI	29.1	36.4	38.9	43.0	48.4	46.9
SK	39.4	68.2	79.8	84.4	94.0	92.1
FI	164.7	188.1	211.4	226.3	239.9	238.0
SE	315.8	374.7	455.5	480.0	476.9	480.6

* Units in Milliard - Long Scale = 1000 Million €

Source: DG Economic and Financial Affairs, AMECO, April 2022

Methodology and Notes in the annexes

3.3.2 GDP per Capita at Current Market Prices

GDP PER CAPITA AT CURRENT MARKET PRICES

Thousand EUR/cap*	2005	2010	2015	2017	2019	2020
EU27_2020	22.0	24.9	27.5	29.4	31.4	30.0
BE	29.7	33.5	37.1	39.2	41.7	39.6
BG	3.1	5.1	6.3	7.4	8.8	8.8
CZ	10.8	15.1	16.1	18.4	21.2	20.2
DK	39.3	43.9	48.2	51.3	53.3	53.5
DE	27.7	31.3	37.3	39.6	41.8	40.9
EE	8.3	11.1	15.8	18.1	20.9	20.2
IE	41.4	36.9	56.2	62.2	72.7	75.1
EL	18.2	20.2	16.2	16.4	17.1	15.4
ES	21.4	23.1	23.2	25.0	26.5	23.7
FR	28.1	30.9	33.1	34.4	36.3	34.3
HR	8.5	10.5	10.6	12.0	13.6	12.4
IT	25.8	27.2	27.2	28.7	30.0	27.8
CY	20.5	23.7	21.1	23.7	26.3	24.3
LV	6.1	8.4	12.4	13.8	16.0	15.4
LT	6.3	8.9	12.8	14.8	17.5	17.7
LU	65.1	80.0	92.5	98.5	102.1	102.6
HU	9.0	9.9	11.4	13.0	15.0	14.1
MT	12.8	16.5	22.7	25.9	28.5	25.4
NL	33.8	38.6	40.8	43.2	47.0	45.8
AT	31.0	35.4	40.1	42.1	44.9	42.6
PL	6.4	9.5	11.3	12.3	14.1	13.9
PT	15.1	17.0	17.3	19.0	20.9	19.4
RO	3.7	6.2	8.1	9.6	11.5	11.3
SI	14.6	17.8	18.8	20.8	23.3	22.4
SK	7.3	12.6	14.7	15.5	17.3	16.9
FI	31.4	35.2	38.6	41.1	43.5	43.1
SE	35.0	40.1	46.7	48.0	46.6	46.5

* 1000 €' per Capita

Source: DG Economic and Financial Affairs, AMECO, April 2022

Source: Eurostat, Demography and migration, April 2022

Methodology and Notes in the annexes

3.3.3 GDP at 2015 Market Prices

GDP AT 2015 MARKET PRICES

Mrd EUR*	2005	2010	2015	2017	2019	2020
EU27_2020	11059.8	11620.5	12211.5	12810.6	13313.0	12531.4
BE	362.9	390.6	416.7	428.8	445.9	420.6
BG	35.7	41.8	45.7	48.5	51.8	49.5
CZ	137.9	155.9	169.6	182.8	194.5	183.8
DK	253.4	256.1	273.0	289.8	300.0	294.0
DE	2624.6	2783.2	3026.2	3176.6	3241.6	3121.8
EE	17.9	17.7	20.8	22.5	24.4	23.7
IE	185.7	189.6	262.9	292.4	334.6	355.3
EL	219.9	216.3	176.1	177.4	183.6	167.1
ES	1028.7	1079.0	1077.6	1143.3	1193.8	1064.6
FR	2005.2	2088.8	2198.4	2273.4	2358.5	2174.9
HR	43.8	45.1	44.6	48.4	51.5	47.3
IT	1737.6	1712.8	1655.4	1704.7	1729.1	1573.1
CY	17.1	19.5	17.9	20.2	22.4	21.3
LV	21.1	20.6	24.6	26.0	27.7	26.7
LT	29.2	31.0	37.3	39.9	43.4	43.4
LU	40.0	45.2	52.1	57.6	60.7	59.6
HU	102.3	101.7	112.7	120.2	132.4	126.5
MT	6.6	7.7	10.0	11.5	12.9	11.8
NL	620.7	664.8	690.0	725.7	757.3	727.9
AT	306.1	326.7	344.3	359.0	373.5	348.4
PL	294.6	372.2	430.5	465.4	513.6	502.6
PT	182.0	187.4	179.7	189.8	200.4	183.5
RO	121.0	139.1	160.1	180.0	195.9	188.5
SI	34.7	38.1	38.9	42.0	45.3	43.4
SK	55.3	70.3	79.8	83.9	89.3	85.4
FI	201.1	210.6	211.4	224.3	229.6	224.5
SE	374.5	409.1	455.5	476.9	495.8	485.1

*Units in Milliard - Long Scale = 1000 Millions Euro

Source: DG Economic and Financial Affairs, AMECO, April 2022

Source: Eurostat, Demography and migration, April 2022

Methodology and Notes in the annexes

3.3.4 GDP per Capita at 2015 Market Prices

GDP PER CAPITA AT 2015 MARKET PRICES

Thousand EUR/cap*	2005	2010	2015	2017	2019	2020
EU27_2020	25.5	26.4	27.5	28.8	29.8	28.0
BE	34.7	36.0	37.1	37.8	38.9	36.5
BG	4.6	5.6	6.3	6.8	7.4	7.1
CZ	13.5	14.9	16.1	17.3	18.3	17.2
DK	46.8	46.3	48.2	50.4	51.7	50.5
DE	31.8	34.0	37.3	38.5	39.0	37.5
EE	13.2	13.2	15.8	17.1	18.4	17.8
IE	45.2	41.7	56.2	61.1	68.2	71.6
EL	20.0	19.5	16.2	16.5	17.1	15.6
ES	23.8	23.2	23.2	24.6	25.4	22.5
FR	31.9	32.3	33.1	34.0	35.1	32.3
HR	10.2	10.5	10.6	11.6	12.6	11.7
IT	30.0	28.9	27.2	28.1	28.9	26.4
CY	23.3	23.8	21.1	23.6	25.6	24.0
LV	9.4	9.7	12.4	13.3	14.4	14.0
LT	8.7	9.9	12.8	14.0	15.5	15.5
LU	86.8	90.0	92.5	97.5	98.8	95.2
HU	10.1	10.2	11.4	12.3	13.6	13.0
MT	16.4	18.6	22.7	24.9	26.1	23.0
NL	38.1	40.1	40.8	42.5	43.8	41.8
AT	37.3	39.1	40.1	40.9	42.2	39.1
PL	7.7	9.8	11.3	12.3	13.5	13.2
PT	17.3	17.7	17.3	18.4	19.5	17.8
RO	5.7	6.9	8.1	9.2	10.1	9.8
SI	17.4	18.6	18.8	20.3	21.8	20.7
SK	10.3	13.0	14.7	15.4	16.4	15.6
FI	38.4	39.4	38.6	40.8	41.6	40.6
SE	41.6	43.8	46.7	47.7	48.5	47.0

* 1000 €' 2010 per Capita

Source: DG Economic and Financial Affairs, AMECO, April 2022

Source: Eurostat, Demography and migration, April 2022

Methodology and Notes in the annexes

3.4 Demography

3.4.1 Population

POPULATION ON 1ST JANUARY

1000 Inhabitants	2005	2010	2015	2017	2019	2020
EU27_2020	434 416.3	440 660.4	443 666.8	445 534.4	446 446.4	447 319.9
BE	10 445.9	10 839.9	11 237.3	11 351.7	11 455.5	11 522.4
BG	7 688.6	7 421.8	7 202.2	7 101.9	7 000.0	6 951.5
CZ	10 198.9	10 462.1	10 538.3	10 578.8	10 649.8	10 693.9
DK	5 411.4	5 534.7	5 659.7	5 748.8	5 806.1	5 822.8
DE	82 500.8	81 802.3	81 197.5	82 521.7	83 019.2	83 166.7
EE	1 358.9	1 333.3	1 314.9	1 315.6	1 324.8	1 329.0
IE	4 111.7	4 549.4	4 677.6	4 784.4	4 904.2	4 964.4
EL	10 969.9	11 119.3	10 858.0	10 768.2	10 724.6	10 718.6
ES	43 296.3	46 486.6	46 449.6	46 528.0	46 937.1	47 332.6
FR	62 772.9	64 658.9	66 458.2	66 809.8	67 177.6	67 320.2
HR	4 310.9	4 302.8	4 225.3	4 154.2	4 076.2	4 058.2
IT	57 874.8	59 190.1	60 795.6	60 589.4	59 816.7	59 641.5
CY	733.1	819.1	847.0	854.8	875.9	888.0
LV	2 249.7	2 120.5	1 986.1	1 950.1	1 920.0	1 907.7
LT	3 355.2	3 142.0	2 921.3	2 847.9	2 794.2	2 794.1
LU	461.2	502.1	563.0	590.7	613.9	626.1
HU	10 097.5	10 014.3	9 855.6	9 797.6	9 772.8	9 769.5
MT	402.7	414.0	439.7	460.3	493.6	514.6
NL	16 305.5	16 575.0	16 900.7	17 081.5	17 282.2	17 407.6
AT	8 201.4	8 351.6	8 584.9	8 772.9	8 858.8	8 901.1
PL	38 173.8	38 022.9	38 005.6	37 973.0	37 972.8	37 958.1
PT	10 494.7	10 573.5	10 374.8	10 309.6	10 276.6	10 295.9
RO	21 382.4	20 294.7	19 870.6	19 643.9	19 414.5	19 328.8
SI	1 997.6	2 047.0	2 062.9	2 065.9	2 080.9	2 095.9
SK	5 372.7	5 390.4	5 421.3	5 435.3	5 450.4	5 457.9
FI	5 236.6	5 351.4	5 471.8	5 503.3	5 517.9	5 525.3
SE	9 011.4	9 340.7	9 747.4	9 995.2	10 230.2	10 327.6

3.5 Employment

3.5.1 Total Persons Employed

EMPLOYMENT

TOTAL PERSONS EMPLOYED IN THE ENERGY SECTOR (15 - 64 YEARS) EU27_2020

[thousands]	2015	2017	2019	2020
B05 - Mining of coal and lignite	288.6	256.5	249.3	245.3
B06 - Extraction of crude petroleum and natural gas	64.3	57.0	54.7	57.2
B0892 - Extraction of peat*	<i>10.7</i>	7.1	<i>0.2</i>	<i>0.2</i>
B091 - Support activities for petroleum and natural gas extraction*	<i>36.8</i>	<i>0.0</i>	14.8	<i>14.8</i>
C19 - Manufacture of coke and refined petroleum products	<i>160.7</i>	<i>164.3</i>	165.7	160.1
D35 - Electricity, gas, steam and air conditioning supply	1 370.6	1 361.9	1 409.9	1 464.3
Broad Sector - Total Employment**	1 931.7	1 846.8	1 894.5	<i>1 941.8</i>

*According to Structural Business Statistics Survey (SBS), May 2022

**Estimate of total employment as a sum of available figures presented in the table

Italics, blue: DG ENER estimates

Source: Eurostat, Labour Force Survey (LFS), April 2022

Methodology and Notes in the annexes

3.5.2 Employment Rate

EMPLOYMENT RATE IN ALL ECONOMIC SECTORS (15-64 YEARS)*

MEMBER STATES' DATA - ALL SECTORS

%	2005	2010	2015	2017	2019	2020
EU27_2020	68.8	69.7	71.5	72.4	73.2	72.3
BE	66.7	67.7	67.7	68.0	69.1	68.4
BG	62.1	66.5	69.2	71.2	73.1	72.1
CZ	70.4	70.2	74.0	75.9	76.7	76.4
DK	79.8	78.0	76.9	77.9	79.1	79
DE	73.8	75.4	76.4	77.0	78.0	77.3
EE	70.7	74.6	77.0	79.2	79.2	79.6
IE	73.9	71.6	72.0	72.6	73.2	70.8
EL	66.4	67.7	67.7	68.2	68.5	65.3
ES	70.0	73.5	74.3	73.9	73.8	72.2
FR	69.7	71.0	72.2	72.4	72.6	72
HR	63.3	65.1	66.9	66.4	66.5	67.1
IT	62.5	61.6	63.8	65.3	65.7	63.5
CY	72.4	73.6	73.9	73.9	76.0	75.8
LV	69.1	72.7	75.7	76.9	77.3	78
LT	68.7	70.2	74.1	75.9	78.0	78.5
LU	66.6	68.2	70.9	70.2	72.0	72.2
HU	61.3	64.0	70.5	73.1	74.7	75.1
MT	57.6	60.4	68.8	72.2	75.9	77.1
NL	75.1	80.4	82.1	82.2	83.4	83.4
AT	71.4	74.7	75.8	76.8	77.3	76.4
PL	64.4	63.4	66.8	68.7	69.9	70.1
PT	73.2	71.5	72.3	73.8	74.9	73.8
RO	62.3	57.4	59.9	61.8	63.3	64.1
SI	70.7	70.8	71.2	73.6	74.6	73.8
SK	68.9	70.5	72.9	74.1	74.7	74.5
FI	74.7	73.5	74.8	75.8	77.3	77.3
SE	78.2	78.6	81.4	82.1	82.5	82.1

*Percentage of active population

Source: Eurostat, Labour Force Survey (LFS), April 2022

Methodology and Notes in the annexes

3.5.3 Unemployment Rate

UNEMPLOYMENT RATE IN ALL ECONOMIC SECTORS* MEMBER STATES' DATA - ALL SECTORS

%	2005	2010	2015	2017	2019	2020
EU27_2020	9.6	9.8	10.0	8.1	6.7	7.1
BE	8.5	8.3	8.5	7.1	5.4	5.6
BG	10.1	10.3	9.2	6.2	4.2	5.1
CZ	7.9	7.3	5.1	2.9	2.0	2.6
DK	4.8	7.7	6.3	5.8	5.0	5.6
DE	11.2	7.0	4.6	3.8	3.1	3.8
EE	8.0	16.7	6.2	5.8	4.4	6.8
IE	4.6	14.6	10.0	6.7	5.0	5.7
EL	10.0	12.7	24.9	21.5	17.3	16.3
ES	9.2	19.9	22.1	17.2	14.1	15.5
FR	8.5	8.9	10.1	9.1	8.1	7.8
HR	12.8	11.7	16.2	11.2	6.6	7.5
IT	7.7	8.4	11.9	11.2	10.0	9.2
CY	5.3	6.3	15.0	11.1	7.1	7.6
LV	10.0	19.5	9.9	8.7	6.3	8.1
LT	8.3	17.8	9.1	7.1	6.3	8.5
LU	4.5	4.4	6.7	5.5	5.6	6.8
HU	7.2	11.2	6.8	4.2	3.4	4.3
MT	6.9	6.9	5.4	4.0	3.6	4.3
NL	5.9	5.0	6.9	4.9	3.4	3.8
AT	5.6	4.8	5.7	5.5	4.5	5.4
PL	17.8	9.7	7.5	4.9	3.3	3.2
PT	7.7	11.0	12.6	9.0	6.5	6.9
RO	7.2	7.0	6.8	4.9	3.9	5
SI	6.5	7.3	9.0	6.6	4.5	5
SK	16.3	14.4	11.5	8.1	5.8	6.7
FI	8.4	8.4	9.4	8.6	6.7	7.8
SE	7.5	8.6	7.4	6.7	6.8	8.3

*Percentage of active population

Source: Eurostat, Labour Force Survey (LFS), April 2022

Methodology and Notes in the annexes

4 Environment Indicators in the EU



4 Environment Indicators in the EU

Summary

4.1	Gases Emissions	164
4.1.1	Greenhouse gas (GHG) Emissions	164
	GHG Emissions - National Total	164
	GHG Emissions - Energy	165
	GHG Emissions - Not Energy Related	166
	GHG Emissions - National Total and Energy related	167
	GHG Emissions - Not Energy Related	168
4.1.2	CO ₂ Emissions	169
	CO ₂ Emissions - National Total	169
	CO ₂ Emissions - Energy	170
	CO ₂ Emissions - Not Energy Related	171
	CO ₂ Emissions - National Total and Energy Related	172
	CO ₂ Emissions - Not Energy Related	173
4.2	Main Emissions Indicators	174
4.2.1	Greenhouse Gas Emissions per Capita	174
	Main Emissions IndicatorsGHG per Capita	174
4.2.2	Greenhouse Gas to GDP Intensity	175
	Main Emissions IndicatorsGHG to GDP Intensity	175

4.1 Gases Emissions

4.1.1 Greenhouse gas (GHG) Emissions

GHG EMISSIONS - NATIONAL TOTAL*

[Million ton CO ₂ equiv.]	1990	2005	2010	2015	2019	2020
EU27_2020	4900.6	4632.9	4276.2	3924.4	3734.5	3354.1
Index1990	100.0%	94.5%	87.3%	80.1%	76.2%	68.4%
BE	148.8	149.1	137.9	123.4	121.7	110.1
BG	99.1	62.6	59.8	62.8	60.2	49.6
CZ	199.5	150.2	141.5	129.9	124.8	113.7
DK	72.9	69.6	66.2	51.6	47.6	42.7
DE	1254.0	1009.7	960.2	922.7	829.6	742.5
EE	40.3	19.3	21.3	18.2	14.8	11.6
IE	55.5	72.8	64.3	63.0	63.2	58.9
EL	105.9	139.0	121.1	98.3	89.6	76.2
ES	294.9	454.0	370.9	352.1	333.0	281.2
FR	553.0	567.3	523.7	475.6	453.7	401.1
HR	31.9	29.9	28.2	24.7	25.2	23.9
IT	524.2	599.5	526.7	451.4	430.9	385.1
CY	6.3	10.1	10.3	9.1	9.9	9.2
LV	26.1	11.1	12.2	11.1	11.6	10.6
LT	48.3	22.9	20.9	20.6	20.7	20.3
LU	13.1	14.3	13.5	11.7	12.5	10.7
HU	95.3	77.5	66.7	62.1	65.4	63.1
MT	2.8	3.2	3.2	2.5	2.7	2.3
NL	225.2	223.9	222.3	204.6	192.3	171.0
AT	79.3	94.0	86.2	80.6	82.7	74.6
PL	476.5	406.1	414.4	391.0	393.8	377.4
PT	60.0	88.1	71.6	70.9	68.0	59.2
RO	250.5	147.3	123.4	115.5	114.4	110.1
SI	18.6	20.5	19.7	16.9	17.2	15.9
SK	73.5	50.7	45.8	40.9	40.0	37.1
FI	72.2	71.2	77.3	57.0	55.4	48.7
SE	72.8	68.8	66.9	56.3	53.5	47.2

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

Source: EEA, June 2022, Eurostat 2022

Methodology and Notes: see appendices

4.1.1 Greenhouse gas (GHG) Emissions

GHG EMISSIONS - ENERGY

	2020								
	Energy	of which:							
		Energy Industries Manufacturing Industries and Construction	Transport	Commercial/Insti- tutional	Residential	Agriculture/Fo- restry/Fisheries	Other Sectors	Other Combustion and Fugitive Emissions	
EU27_2020	2488.1	781.0	405.7	721.3	117.2	317.7	76.9	6.4	61.9
Share [%]	100.0%	31.4%	16.3%	29.0%	4.7%	12.8%	3.1%	0.3%	2.5%
BE	77.0	19.0	13.1	21.7	5.2	14.7	2.6	0.1	0.6
BG	35.1	18.2	4.0	9.4	0.3	1.0	0.5	0.0	1.6
CZ	84.6	41.6	10.2	17.8	2.7	8.4	1.3	0.3	2.3
DK	27.1	7.4	3.6	12.0	0.7	1.7	1.3	0.2	0.2
DE	608.4	212.5	116.4	147.2	27.8	90.8	6.3	0.7	6.7
EE	9.5	5.8	0.5	2.2	0.3	0.3	0.3	0.0	0.0
IE	33.2	8.6	4.5	10.3	1.8	7.1	0.7	0.0	0.1
EL	51.6	24.5	4.5	15.4	0.6	5.2	0.8	0.3	0.4
ES	199.3	43.6	40.2	74.3	9.2	16.1	11.8	0.4	3.7
FR	264.7	37.1	42.2	109.5	19.9	40.0	11.4	1.5	3.2
HR	15.5	3.7	2.4	5.8	0.6	1.9	0.8	0.0	0.4
IT	298.9	81.8	45.9	85.4	23.9	47.4	7.9	0.6	6.0
CY	6.4	3.0	0.9	1.9	0.1	0.3	0.1	0.0	:
LV	6.8	1.4	0.7	3.1	0.4	0.6	0.5	0.0	0.1
LT	11.8	2.6	1.2	6.1	0.3	0.9	0.2	0.0	0.4
LU	7.6	0.2	1.1	4.7	0.6	1.0	0.0	0.0	0.0
HU	44.4	12.3	5.0	12.6	2.8	8.1	1.7	0.1	1.8
MT	1.6	0.8	0.1	0.6	0.1	0.0	0.0	0.0	0.0
NL	134.8	47.8	27.3	26.3	6.4	15.4	10.0	0.2	1.4
AT	49.9	8.8	10.5	21.2	1.3	6.7	1.0	0.0	0.3
PL	305.3	139.8	29.2	63.2	6.0	33.8	11.9	0.0	21.4
PT	38.5	10.4	7.6	14.8	1.0	2.2	1.4	0.1	1.1
RO	72.8	18.3	14.8	18.4	2.1	8.4	1.6	0.7	8.6
SI	12.5	4.5	1.7	4.6	0.3	0.8	0.2	0.0	0.4
SK	24.6	6.4	5.9	7.1	1.2	3.1	0.4	0.1	0.4
FI	34.3	13.1	6.2	10.4	1.1	1.1	1.2	0.9	0.1
SE	31.8	7.5	6.1	15.4	0.6	0.5	1.2	0.0	0.5

4.1.1 Greenhouse gas (GHG) Emissions

GHG EMISSIONS - NOT ENERGY RELATED

[Million ton CO ₂ equiv.]	2020						
	GHG emissions other than from energy	of which:				Indirect CO ₂	International aviation
		Industrial Processes and Product Use	Agriculture	Waste and Others			
EU27_2020	810.1	313.9	382.4	112.3	1.5	55.9	
Share [%]	100.0%	38.7%	47.2%	13.9%	0.2%		
BE	29.4	18.9	9.3	1.2	0.0	3.6	
BG	14.1	5.3	6.2	2.6	0.0	0.4	
CZ	28.8	15.2	7.8	5.1	0.5	0.4	
DK	14.6	1.9	11.3	1.2	0.2	1.0	
DE	120.3	55.5	56.1	8.8	0.0	13.8	
EE	2.1	0.3	1.5	0.3	0.0	0.1	
IE	24.6	2.9	20.8	0.9	0.0	1.2	
EL	23.2	10.5	7.8	4.9	0.0	1.3	
ES	75.4	23.7	38.5	13.2	0.0	6.5	
FR	128.2	40.2	70.4	17.7	0.0	8.1	
HR	8.2	3.8	2.7	1.8	0.0	0.2	
IT	82.3	31.0	32.7	18.6	0.0	3.8	
CY	2.5	1.3	0.6	0.6	0.0	0.3	
LV	3.7	0.9	2.3	0.5	0.0	0.2	
LT	8.4	3.1	4.5	0.8	0.0	0.2	
LU	1.4	0.6	0.7	0.1	0.0	1.7	
HU	18.4	7.7	7.3	3.4	0.0	0.3	
MT	0.5	0.3	0.1	0.2	0.0	0.2	
NL	29.6	8.8	17.7	2.7	0.4	6.7	
AT	23.7	15.5	7.0	1.2	0.0	1.1	
PL	70.7	25.1	34.3	11.3	0.0	1.4	
PT	19.1	7.6	7.0	4.4	0.1	1.6	
RO	37.1	12.9	18.3	5.9	0.0	0.1	
SI	3.3	1.2	1.7	0.4	0.0	0.0	
SK	12.4	8.1	2.6	1.7	0.0	0.1	
FI	13.5	5.1	6.6	1.7	0.1	0.9	
SE	14.5	6.6	6.9	1.0	0.0	0.9	

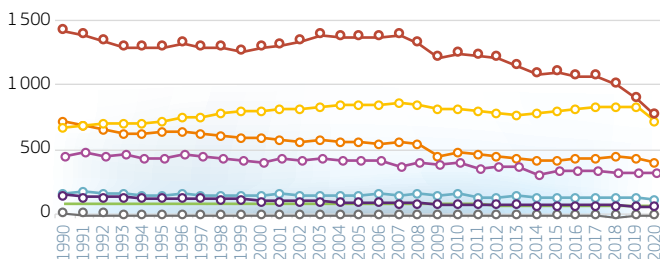
4.1.1 Greenhouse gas (GHG) Emissions

GHG EMISSIONS - NATIONAL TOTAL AND ENERGY RELATED EU27_2020

(Million ton CO ₂ equiv.)	GHG emissions - National total *	of which:								
		Energy	Energy Industries Manufacturing Industries and Construction		Transport	Commercial/Institutional	Residential	Agriculture/Forestry/Fisheries	Other Sectors	Other Combustion and Fugitive Emission
1990	4901	3724.4	1438.4	727.2	672.9	172.1	448.5	91.1	22.0	152.1
1995	4613	3505.3	1317.3	646.8	725.1	149.2	436.9	89.7	10.0	130.2
2000	4529	3442.1	1303.9	587.6	798.6	144.1	406.4	85.2	8.5	107.7
2001	4577	3508.8	1329.8	575.8	812.8	157.4	435.1	85.1	8.1	104.7
2002	4561	3506.7	1352.3	566.2	822.7	151.2	418.9	83.0	8.4	104.0
2003	4645	3583.1	1399.8	571.9	831.2	152.0	430.9	83.7	9.2	104.4
2004	4655	3577.0	1392.7	565.5	849.7	154.4	423.3	84.2	10.3	96.9
2005	4633	3558.4	1384.0	556.7	847.9	154.5	424.1	84.3	10.8	96.1
2006	4634	3558.7	1390.7	546.6	856.2	162.2	417.8	81.3	9.7	94.1
2007	4606	3517.0	1406.3	559.3	865.0	142.9	365.9	78.4	9.6	89.5
2008	4513	3453.7	1337.1	540.1	846.6	157.2	396.2	79.3	9.3	87.9
2009	4187	3216.9	1237.2	447.9	823.6	154.5	386.7	77.8	8.0	81.3
2010	4276	3296.7	1255.8	480.7	818.0	163.4	409.9	80.0	7.8	81.2
2011	4170	3193.5	1247.4	468.9	808.3	140.8	359.6	79.1	8.1	81.3
2012	4094	3134.9	1230.0	450.7	778.9	141.0	369.9	76.3	7.0	81.0
2013	4009	3051.0	1165.6	433.2	773.4	142.7	372.6	76.3	7.0	80.3
2014	3872	2904.0	1104.9	419.7	779.3	125.4	314.7	75.7	6.8	77.6
2015	3924	2959.7	1112.7	427.2	794.5	134.0	332.2	74.6	6.9	77.6
2016	3935	2962.5	1088.4	431.7	812.1	134.8	339.3	75.0	6.2	74.9
2017	3970	2977.8	1083.7	441.8	826.6	134.3	335.2	75.2	6.2	74.7
2018	3890	2903.1	1024.0	443.4	828.3	130.6	322.8	76.5	5.8	71.7
2019	3735	2761.4	906.2	428.9	834.7	126.5	317.0	75.7	6.3	66.1
2020	3354	2488.1	781.0	405.7	721.3	117.2	317.7	76.9	6.4	61.9

GHGS EMISSIONS - EU27_2020 - FUEL COMBUSTION

(Million ton CO₂ equiv.)



Energy Industries

Commercial/Institutional

Other Sectors

Manufacturing Industries and Construction

Residential

Other Combustion and Fugitive Emission

Transport

Agriculture/Forestry/Fisheries

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

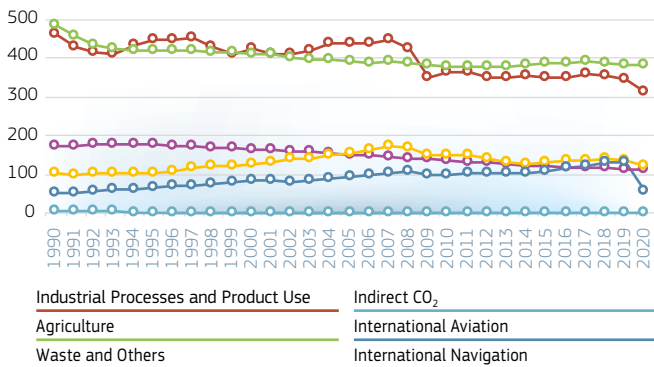
Source: EEA, June 2022, Eurostat 2022

Methodology and Notes: see appendices

4.1.1 Greenhouse gas (GHG) Emissions

GHG EMISSIONS - NOT ENERGY RELATED
EU27_2020

[Million ton CO ₂ equiv.]	GHG emissions - National total	of which:					Indirect CO ₂	International aviation	International navigation
		GHG emissions other than from energy	Industrial Processes and Product Use	Agriculture	Waste and Others	Indirect CO ₂			
1990	4901	1122.2	462.4	482.9	172.5	4.3	54.0	102.7	
1995	4613	1041.9	445.1	417.4	175.8	3.6	65.9	103.0	
2000	4529	1001.8	424.0	409.5	165.4	3.0	85.0	128.6	
2001	4577	983.5	409.8	407.5	163.4	2.8	84.3	133.2	
2002	4561	972.1	408.5	400.1	160.7	2.7	81.8	139.2	
2003	4645	976.2	419.1	395.5	158.9	2.7	85.4	141.7	
2004	4655	987.6	435.5	394.5	155.0	2.6	90.4	149.9	
2005	4633	978.5	435.9	389.0	150.9	2.6	96.0	153.8	
2006	4634	974.3	437.8	385.7	148.1	2.6	101.0	164.6	
2007	4606	983.7	446.8	389.4	145.0	2.5	105.7	171.7	
2008	4513	951.6	421.6	386.0	141.6	2.4	107.3	169.7	
2009	4187	871.3	348.6	380.9	139.6	2.2	98.6	150.8	
2010	4276	879.2	363.4	376.7	136.7	2.3	100.4	150.3	
2011	4170	873.5	362.6	375.5	133.2	2.2	103.1	150.9	
2012	4094	857.1	349.6	375.1	130.3	2.1	101.8	139.7	
2013	4009	855.1	347.9	378.2	127.1	1.9	102.7	131.5	
2014	3872	863.7	354.7	384.0	123.1	1.9	104.8	127.8	
2015	3924	855.9	347.7	385.5	120.8	1.9	108.7	129.8	
2016	3935	857.6	350.7	386.9	118.3	1.8	115.2	133.7	
2017	3970	867.7	359.7	389.5	116.6	1.8	124.1	136.0	
2018	3890	856.8	353.6	386.3	115.2	1.7	130.3	138.6	
2019	3735	840.1	343.3	381.6	113.5	1.6	133.0	137.5	
2020	3354	810.1	313.9	382.4	112.3	1.5	55.9	122.5	

GHGS EMISSIONS - EU27_2020 - OTHER THAN FUEL COMBUSTION
(Million ton CO₂ equiv.)*GHG emissions without LULUCF, with indirect CO₂ and including international aviation

Source: EEA, June 2022, Eurostat 2022

Methodology and Notes: see appendices

4.1.2 CO₂ EmissionsCO₂ EMISSIONS - NATIONAL TOTAL*

[Million ton CO ₂]	1990	2005	2010	2015	2019	2020
EU27_2020	3928.3	3842.9	3544.6	3212.4	3050.2	2688.0
Index1990	100.0%	97.8%	90.2%	81.8%	77.6%	68.4%
BE	123.4	129.2	118.7	105.5	104.6	94.0
BG	77.4	51.2	48.4	48.8	43.0	37.4
CZ	166.8	127.8	119.4	106.7	103.0	92.8
DK	56.5	54.8	52.1	38.2	34.3	29.5
DE	1063.9	889.1	856.8	820.1	736.8	653.0
EE	37.0	17.2	19.1	16.0	12.6	9.4
IE	34.0	50.6	44.1	41.2	40.6	36.3
EL	85.9	116.5	99.9	77.8	69.7	56.9
ES	236.1	381.6	296.9	286.7	270.8	219.8
FR	407.2	441.2	403.0	359.2	345.8	297.4
HR	23.5	23.6	21.3	18.2	18.5	17.0
IT	443.8	510.7	444.9	370.7	351.6	306.1
CY	5.4	8.8	8.9	7.7	8.4	7.6
LV	19.9	8.0	8.9	7.6	8.1	7.2
LT	36.2	14.3	14.1	13.6	14.3	13.8
LU	12.2	13.4	12.5	10.7	11.5	9.7
HU	73.7	61.1	52.8	47.2	50.1	47.6
MT	2.6	2.9	2.9	2.0	2.2	1.8
NL	167.3	188.3	192.2	176.0	165.4	144.9
AT	63.0	81.0	74.1	68.5	70.8	63.1
PL	377.5	324.3	336.4	315.3	321.7	304.9
PT	46.9	72.2	55.8	55.6	52.1	43.5
RO	174.3	100.6	85.1	78.7	77.5	74.3
SI	15.1	17.0	16.5	13.7	14.1	12.9
SK	61.6	43.0	38.6	34.7	34.0	31.2
FI	58.1	58.4	65.8	46.1	45.0	38.5
SE	58.9	56.0	55.4	45.9	43.6	37.4

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

Source: EEA, June 2022, Eurostat 2022

Methodology and Notes: see appendices

4.1.2 CO₂ EmissionsCO₂ EMISSIONS - ENERGY

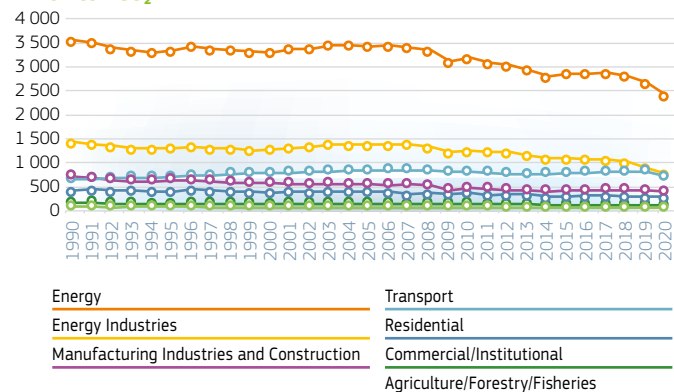
		2020								
		<i>of which:</i>								
[Million ton CO ₂]	Energy	Energy Industries Manufacturing Industries and Construction	Transport	Commercial/Insti- tutional	Residential	Agriculture/Fo- restry/Fisheries	Other Sectors	Other Combustion and Fugitive Emissions		
EU27_2020	2 399.9	772.3	400.3	712.4	115.9	302.3	71.3	6.3	19.0	
Share [%]	100.0%	32.2%	16.7%	29.7%	4.8%	12.6%	3.0%	0.3%	0.8%	
BE	75.4	18.8	12.9	21.4	5.2	14.4	2.4	0.1	0.1	
BG	33.4	18.1	4.0	9.2	0.3	0.7	0.4	0.0	0.7	
CZ	80.7	41.4	10.1	17.6	2.7	7.4	1.2	0.3	0.1	
DK	26.5	7.2	3.5	11.9	0.7	1.5	1.3	0.2	0.1	
DE	594.9	208.3	115.3	145.3	27.6	89.8	6.0	0.7	1.8	
EE	9.2	5.8	0.5	2.2	0.3	0.2	0.3	0.0	0.0	
IE	32.5	8.5	4.5	10.2	1.8	6.9	0.6	0.0	0.0	
EL	50.5	24.4	4.4	15.1	0.6	5.0	0.7	0.3	0.0	
ES	195.6	43.0	39.2	73.4	9.0	15.4	11.7	0.4	3.6	
FR	259.2	36.8	41.6	108.2	19.8	38.7	10.4	1.5	2.2	
HR	14.8	3.7	2.4	5.7	0.6	1.5	0.7	0.0	0.3	
IT	288.0	81.4	44.9	84.5	23.4	44.1	7.1	0.6	2.1	
CY	6.4	3.0	0.9	1.9	0.1	0.3	0.1	0.0	0.0	
LV	6.3	1.3	0.6	3.1	0.4	0.4	0.5	0.0	0.0	
LT	11.2	2.6	1.2	6.1	0.3	0.7	0.2	0.0	0.2	
LU	7.5	0.2	1.1	4.6	0.6	1.0	0.0	0.0	0.0	
HU	41.9	12.3	4.9	12.4	2.8	7.6	1.6	0.1	0.2	
MT	1.6	0.8	0.1	0.6	0.1	0.0	0.0	0.0	0.0	
NL	132.0	47.4	27.2	26.0	6.4	15.0	8.9	0.2	0.9	
AT	48.8	8.7	10.4	20.9	1.3	6.4	0.9	0.0	0.1	
PL	282.3	139.0	28.9	62.5	5.9	31.2	10.7	0.0	4.2	
PT	37.6	10.3	7.5	14.7	1.0	1.9	1.3	0.1	1.0	
RO	63.3	18.3	14.7	18.1	2.1	7.2	1.5	0.6	0.8	
SI	12.0	4.5	1.7	4.5	0.3	0.6	0.2	0.0	0.1	
SK	23.7	6.4	5.9	7.0	1.1	2.9	0.3	0.1	0.0	
FI	33.5	12.9	6.1	10.3	1.1	0.9	1.2	0.9	0.1	
SE	30.9	7.3	5.9	15.2	0.6	0.4	1.1	0.0	0.4	

4.1.2 CO₂ EmissionsCO₂ EMISSIONS - NOT ENERGY RELATED

	2020						
	CO ₂ emissions other than from energy	of which:				Indirect CO ₂	International aviation
		Industrial Processes and Product Use	Agriculture	Waste and Others			
[Million ton CO ₂]							
EU27_2020	232.7	218.6	9.7	2.9	1.5	55.4	
Share [%]	100.0%	93.9%	4.2%	1.3%	0.6%		
BE	15.0	14.5	0.2	0.3	0.0	3.6	
BG	3.5	3.5	0.0	0.0	0.0	0.4	
CZ	11.7	10.7	0.3	0.1	0.5	0.3	
DK	2.0	1.5	0.3	0.0	0.2	1.0	
DE	44.5	41.9	2.6	0.0	0.0	13.6	
EE	0.1	0.1	0.0	0.0	0.0	0.1	
IE	2.6	2.1	0.5	0.0	0.0	1.2	
EL	5.1	5.1	0.0	0.0	0.0	1.3	
ES	17.7	17.1	0.6	0.0	0.0	6.4	
FR	30.2	26.8	1.9	1.6	0.0	8.0	
HR	2.1	2.0	0.1	0.0	0.0	0.2	
IT	14.3	13.7	0.5	0.1	0.0	3.8	
CY	0.9	0.9	0.0	0.0	0.0	0.3	
LV	0.7	0.6	0.1	0.0	0.0	0.2	
LT	2.4	2.4	0.0	0.0	0.0	0.2	
LU	0.6	0.6	0.0	0.0	0.0	1.6	
HU	5.4	5.1	0.2	0.0	0.0	0.3	
MT	0.0	0.0	0.0	0.0	0.0	0.2	
NL	6.2	5.7	0.1	0.0	0.4	6.6	
AT	13.3	13.1	0.1	0.0	0.0	1.0	
PL	21.2	19.1	1.5	0.6	0.0	1.3	
PT	4.3	4.1	0.0	0.0	0.1	1.6	
RO	10.8	10.7	0.1	0.0	0.0	0.1	
SI	0.8	0.8	0.0	0.0	0.0	0.0	
SK	7.4	7.3	0.1	0.0	0.0	0.1	
FI	4.2	3.9	0.2	0.0	0.1	0.9	
SE	5.6	5.3	0.1	0.1	0.0	0.9	

4.1.2 CO₂ EmissionsCO₂ EMISSIONS - NATIONAL TOTAL AND ENERGY RELATED* EU27_2020

[Million ton CO ₂]	CO ₂ emissions - National total*	of which:								
		Energy	Energy Industries Manufacturing Industries and Construction	Transport	Commercial/Insti- tutional	Residential	Agriculture/Fo- restry/Fisheries	Other Sectors	Other Comb- ustion and Fugitive Emissions	
1990	3928	3539.8	1430.3	721.2	660.7	169.6	426.6	86.7	21.5	23.2
1995	3712	3342.4	1309.4	641.3	710.5	147.9	417.5	84.8	9.8	21.2
2000	3698	3305.6	1295.9	581.7	785.8	142.9	389.8	80.3	8.4	20.8
2001	3755	3374.2	1321.6	569.9	800.3	156.2	418.3	80.3	7.9	19.7
2002	3754	3375.3	1343.8	560.1	811.0	150.0	403.6	78.2	8.3	20.3
2003	3840	3450.5	1390.7	565.6	819.9	150.8	414.3	78.8	9.0	21.3
2004	3857	3450.8	1383.3	558.9	838.5	153.1	407.4	79.4	10.1	20.1
2005	3843	3433.8	1374.6	550.1	837.7	153.2	407.4	79.4	10.6	20.9
2006	3858	3438.0	1381.0	540.4	846.2	160.8	400.8	76.4	9.5	22.9
2007	3827	3399.4	1396.3	552.9	855.0	141.6	348.5	73.4	9.4	22.3
2008	3746	3335.8	1327.1	533.8	836.9	155.7	377.6	73.9	9.1	21.7
2009	3442	3105.6	1227.4	442.5	814.5	153.0	368.1	72.3	7.8	19.9
2010	3545	3184.2	1245.6	475.0	808.9	161.8	390.2	74.5	7.7	20.6
2011	3447	3084.5	1237.2	463.1	799.3	139.3	342.4	73.6	8.0	21.5
2012	3373	3025.1	1219.5	445.1	770.0	139.5	351.2	71.2	6.9	21.6
2013	3291	2944.0	1155.4	427.6	764.5	141.3	353.9	71.0	6.9	23.3
2014	3156	2801.6	1095.0	414.3	770.3	124.1	298.2	70.6	6.7	22.4
2015	3212	2856.0	1102.7	421.7	785.4	132.7	315.1	69.5	6.8	22.3
2016	3226	2861.0	1078.4	426.3	802.6	133.5	322.4	69.9	6.1	21.8
2017	3258	2876.0	1073.6	436.2	816.8	133.0	318.1	69.9	6.1	22.3
2018	3190	2804.5	1014.0	437.5	818.4	129.2	306.6	71.1	5.8	22.0
2019	3050	2668.8	896.7	423.2	824.7	125.1	301.4	70.3	6.2	21.2
2020	2688	2399.9	772.3	400.3	712.4	115.9	302.3	71.3	6.3	19.0

EU27_2020 - CO₂ EMISSIONSMillion ton CO₂*CO₂ emissions without LULUCF, with indirect CO₂ and including international aviation

Source: EEA, June 2022, Eurostat 2022

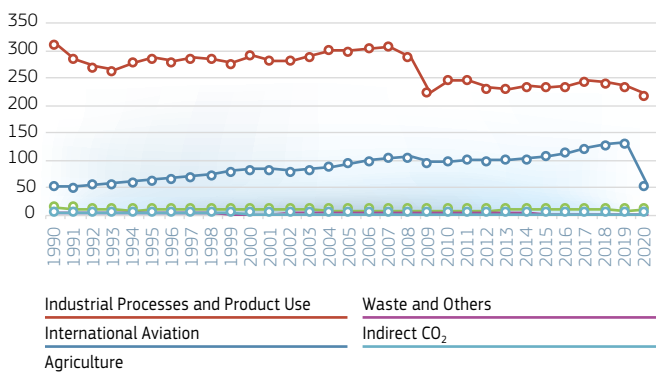
Methodology and Notes: see appendices

4.1.2 CO₂ Emissions

CO₂ EMISSIONS - NOT ENERGY RELATED EU27_2020

[Million ton CO ₂]	CO ₂ emissions - National total*	of which:					Indirect CO ₂	International aviation	International navigation
		CO ₂ emissions other than from energy	Industrial Processes and Product U	Agriculture	Waste and Others				
1990	3928.3	335.0	312.8	14.1	3.8	4.3	53.5	101.4	
1995	3712.3	304.6	287.5	9.9	3.6	3.6	65.3	101.7	
2000	3697.6	307.8	291.8	10.2	2.8	3.0	84.2	127.1	
2001	3754.6	296.9	281.2	10.0	2.9	2.8	83.5	131.6	
2002	3753.5	297.2	281.6	9.7	3.1	2.7	81.0	137.6	
2003	3840.4	305.3	289.4	9.6	3.5	2.7	84.7	140.1	
2004	3856.8	316.4	301.2	9.3	3.2	2.6	89.6	148.2	
2005	3842.9	314.0	298.9	9.1	3.4	2.6	95.1	152.1	
2006	3857.7	319.7	304.8	8.7	3.4	2.6	100.1	162.8	
2007	3827.4	323.3	308.5	8.9	3.4	2.5	104.8	169.8	
2008	3745.6	303.4	288.8	8.8	3.4	2.4	106.4	167.9	
2009	3442.2	238.8	224.6	8.7	3.3	2.2	97.7	149.2	
2010	3544.6	260.9	246.5	8.8	3.3	2.3	99.5	148.7	
2011	3447.5	260.8	246.6	8.9	3.2	2.2	102.2	149.2	
2012	3373.2	247.3	232.7	9.2	3.2	2.1	100.9	138.2	
2013	3290.7	245.0	230.2	9.8	3.1	1.9	101.7	130.1	
2014	3155.8	250.3	235.5	9.8	3.1	1.9	103.8	126.4	
2015	3212.4	248.6	234.1	9.8	2.8	1.9	107.7	128.3	
2016	3226.0	250.8	235.6	10.4	2.9	1.8	114.2	132.2	
2017	3258.2	259.1	244.5	10.0	2.9	1.8	123.0	134.5	
2018	3190.1	256.4	241.8	10.1	2.9	1.7	129.1	137.1	
2019	3050.2	249.6	235.6	9.3	3.0	1.6	131.8	135.9	
2020	2688.0	232.7	218.6	9.7	2.9	1.5	55.4	121.0	

CO₂ EMISSIONS - EU27_2020 - OTHER THAN FUEL COMBUSTION MILLION TON CO₂



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

Source: EEA, June 2022, Eurostat 2022

Methodology and Notes: see appendices

4.2 Main Emissions Indicators

4.2.1 Greenhouse Gas Emissions per Capita

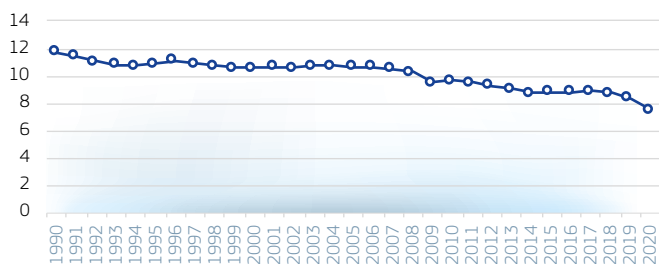
MAIN EMISSIONS INDICATORS

GHG PER CAPITA

[t CO ₂ eq./cap]	1990	2005	2010	2015	2019	2020
EU27_2020	11.7	10.7	9.7	8.8	8.4	7.5
Index1990	100.0%	91.0%	82.8%	75.5%	71.4%	64.0%
BE	15.0	14.3	12.7	11.0	10.6	9.6
BG	11.3	8.1	8.1	8.7	8.6	7.1
CZ	19.3	14.7	13.5	12.3	11.7	10.6
DK	14.2	12.9	12.0	9.1	8.2	7.3
DE	15.9	12.2	11.7	11.4	10.0	8.9
EE	25.6	14.2	16.0	13.8	11.2	8.7
IE	15.8	17.7	14.1	13.5	12.9	11.9
EL	10.5	12.7	10.9	9.1	8.4	7.1
ES	7.6	10.5	8.0	7.6	7.1	5.9
FR	9.5	9.0	8.1	7.2	6.8	6.0
HR	6.7	6.9	6.6	5.8	6.2	5.9
IT	9.2	10.4	8.9	7.4	7.2	6.5
CY	11.0	13.7	12.6	10.8	11.4	10.4
LV	9.8	4.9	5.7	5.6	6.0	5.6
LT	13.1	6.8	6.7	7.0	7.4	7.3
LU	34.6	31.0	26.8	20.8	20.4	17.1
HU	9.2	7.7	6.7	6.3	6.7	6.5
MT	7.9	8.1	7.8	5.6	5.4	4.5
NL	15.1	13.7	13.4	12.1	11.1	9.8
AT	10.4	11.5	10.3	9.4	9.3	8.4
PL	12.5	10.6	10.9	10.3	10.4	9.9
PT	6.0	8.4	6.8	6.8	6.6	5.7
RO	10.8	6.9	6.1	5.8	5.9	5.7
SI	9.3	10.3	9.6	8.2	8.2	7.6
SK	13.9	9.4	8.5	7.5	7.3	6.8
FI	14.5	13.6	14.5	10.4	10.0	8.8
SE	8.5	7.6	7.2	5.8	5.2	4.6

GHG PER CAPITA [t CO₂ eq./cap]

EU27_2020



Source: EEA, June 2022, Eurostat 2022

Methodology and Notes: see appendices

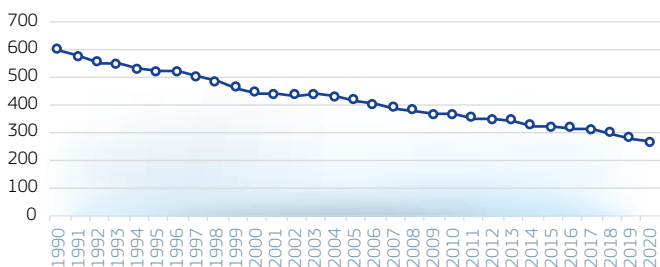
4.2.2 Greenhouse Gas to GDP Intensity

MAIN EMISSIONS INDICATORS GHG TO GDP INTENSITY

[t CO ₂ /M€'15]	1990	2005	2010	2015	2019	2020
EU27_2020	596.5	418.2	367.5	321.3	280.5	267.8
Index1990	100.0%	70.1%	61.6%	53.9%	47.0%	44.9%
BE	562.7	411.0	352.9	296.1	272.8	261.7
BG	2902.5	1733.0	1395.0	1370.9	1161.8	1001.2
CZ	1854.4	1089.1	907.7	765.9	642.2	620.8
DK	400.0	274.7	258.6	188.9	157.8	144.5
DE	594.8	384.7	345.0	304.9	255.7	239.8
EE	3040.1	1080.0	1215.9	881.6	608.4	490.9
IE	762.7	393.2	340.5	239.8	189.1	166.5
EL	741.9	632.8	560.4	557.5	488.1	455.9
ES	443.7	441.3	343.7	326.7	278.9	264.2
FR	369.3	282.9	250.7	216.3	192.4	184.5
HR	776.9	676.1	621.0	546.8	489.8	505.3
IT	371.3	345.0	307.5	272.7	249.2	244.8
CY	714.8	590.2	530.2	509.2	443.4	432.1
LV	1262.6	523.9	587.6	449.7	418.9	399.2
LT	1733.5	781.4	674.0	550.3	477.5	469.2
LU	614.3	337.3	276.7	216.1	206.8	179.8
HU	1181.7	756.1	654.8	550.0	494.1	499.0
MT	763.7	492.3	421.8	248.4	205.5	196.4
NL	537.1	360.7	334.5	296.5	253.9	234.7
AT	365.7	307.1	264.0	234.2	221.3	214.3
PL	2706.8	1378.3	1113.4	908.4	766.6	750.9
PT	462.3	484.0	381.9	394.4	339.4	322.5
RO	2414.8	1217.1	886.7	721.5	584.0	583.8
SI	760.7	591.7	518.1	434.2	378.6	365.9
SK	1939.7	916.4	648.9	511.5	448.0	434.4
FI	513.6	354.2	367.3	269.7	241.2	216.9
SE	272.8	183.7	163.4	123.6	107.9	97.4

GHG TO GDP INTENSITY [t CO₂/M€'15]

EU27_2020



Source: EEA, June 2022, Eurostat 2022

Methodology and Notes: see appendices

5

Country Profiles



5

Country Profiles

Summary

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

Sources: ESTAT – database – May 2021; EEA – UNFCCC database – June 2021; ECFIN – AMECO database – May 2021; ESTAT – SHARES – March 2021; ESTAT – CHP Survey, data 2017 – July 2021; ESTAT – Market Survey – June 2021

5.1 European Union - 27 countries (from 2020)

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	676,0	703,3	695,5	657,1	617,8	573,7
Solid fossil fuels	189,8	176,9	146,6	133,8	100,1	83,6
of which hard coal	99,7	86,3	62,8	52,1	37,1	32,6
of which brown coal	90,0	90,5	83,8	81,7	63,0	51,0
Oil and petroleum products	44,6	45,9	33,1	28,3	22,7	21,3
of which crude oil	42,4	42,7	30,8	26,3	20,4	19,3
Natural gas	112,2	111,1	109,5	72,4	52,3	41,2
Nuclear	222,1	236,8	219,6	203,8	196,2	175,2
Renewables and biofuels	96,1	118,4	168,2	200,4	227,3	234,2
Wastes, Non-Renewable	5,9	7,2	10,6	12,3	13,6	13,8
Net Imports	866,0	954,6	895,5	834,5	907,6	793,0
Solid fossil fuels	83,3	97,9	93,7	96,0	74,4	50,3
of which hard coal	79,0	94,8	92,0	95,9	74,6	51,7
Oil and petroleum products	578,5	606,1	550,3	514,5	527,3	461,5
of which crude oil and NGL	542,3	569,8	517,3	519,9	514,9	450,2
Natural gas	202,8	248,1	245,9	220,6	300,4	273,5
Renewables and biofuels	0,3	1,7	5,1	3,6	4,7	6,1
Electricity	0,8	0,6	0,4	-0,6	0,3	1,2
Gross inland consumption	1 498,3	1 603,9	1 559,1	1 448,0	1 457,9	1 340,1
Solid fossil fuels	279,0	274,3	245,1	234,1	171,9	140,3
of which hard coal	182,7	180,5	159,4	152,4	109,9	90,1
of which brown coal	91,9	92,5	84,9	82,6	63,5	51,9
Oil and petroleum products	579,8	598,6	538,9	491,5	502,2	437,2
of which crude and NGL	586,0	612,7	548,2	541,9	532,8	467,8
Natural gas	308,6	359,7	362,8	296,1	335,1	326,9
Nuclear	222,1	236,8	219,6	203,8	196,2	175,2
Renewables and biofuels	96,5	120,0	173,4	203,9	232,0	239,7
Electricity	0,8	0,6	0,4	-0,6	0,3	1,2
Waste, non-renewable	5,9	7,2	10,7	12,7	14,1	14,3
Available for final consumption	1 022,9	1 091,9	1 073,5	993,8	1 032,8	976,4
Final non-energy consumption	101,4	104,9	98,3	88,2	90,7	89,6
Final energy consumption	926,0	986,6	973,1	909,4	937,9	885,8
by Fuel/Product						
Solid fossil fuels	33,4	28,5	27,2	23,5	19,8	19,0
Oil and petroleum products	396,7	405,2	366,2	338,8	346,0	310,3
Natural gas	205,1	222,8	217,7	192,3	199,1	193,9
Renewables and biofuels	48,8	60,7	85,7	89,7	104,1	104,2
Solid biofuels and renewable waste	46,7	55,1	67,6	65,8	69,8	68,9
Solar thermal	0,5	0,7	1,5	2,1	2,4	2,4
Geothermal	0,4	0,4	0,4	0,4	0,6	0,6
Liquid biofuels	0,7	3,3	12,4	13,3	16,6	16,9
Biogases	0,3	0,5	1,4	2,3	2,6	2,7
Waste, non-renewable	1,0	1,3	2,8	3,7	4,7	5,0
Electricity	189,0	209,4	215,9	210,7	213,3	205,1
Heat	42,9	51,3	51,6	45,4	46,0	44,0
by Sector						
Industry	271,0	275,2	243,9	233,7	239,4	231,2
Transport	262,9	281,6	280,0	272,8	289,0	252,0
Residential	248,5	266,2	278,9	245,0	248,2	248,2
Services	104,7	127,9	140,0	128,5	128,6	121,4
Agriculture and Fishing	28,4	28,5	26,7	25,7	29,2	29,3
Others	10,5	7,2	3,7	3,6	3,4	3,6

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	613.2	675.7	790.2	889.7	946.6	962.6
Combustible Fuels	340.1	370.3	414.8	412.2	395.8	388.2
Nuclear	124.9	123.1	120.9	112.5	110.0	106.0
Hydro	134.7	139.3	143.0	148.2	150.8	150.8
Wind	12.3	38.8	79.0	127.2	167.2	177.0
Solar	0.2	2.3	30.6	87.7	120.2	138.4
Geothermal	0.6	0.7	0.8	0.8	0.9	0.9
Tide, Wave and Ocean	0.2	0.2	0.2	0.2	0.2	0.2
Gross Electricity Generation, by Fuel [TWh]	2 656.9	2 916.3	2 979.7	2 900.5	2 902.3	2 781.3
Solid fossil fuels, peat and products, oil shale	813.9	825.7	721.6	718.8	460.4	356.8
Oil and petroleum products	172.9	137.4	82.1	63.3	52.0	48.1
Natural gas	362.7	548.3	622.1	428.6	599.7	586.2
Nuclear	859.9	916.1	854.5	786.7	765.3	683.5
Renewables and biofuels	435.9	477.0	682.0	883.8	1 003.5	1 086.1
Wastes non-RES	11.6	11.8	17.4	19.4	21.4	20.7
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			101.5	113.8	133.3	133.4
CHP Electricity Generation [TWh]			370.9	343.5	348.4	337.6
CHP in Total Electricity Generation [%]			12.5	11.9	11.7	11.6
CHP Heat Production [PJ]			2 882.9	2 667.5	2 629.2	2 568.2
Transport Fuels [ktoe]						
Final consumption petroleum products	354 896	367 556	336 673	315 054	323 230	291 235
of which LPG	19 465	19 408	18 039	16 217	16 584	15 195
of which motor gasoline	110 381	95 746	76 807	65 300	67 652	58 221
of which Gas/Diesel oil	225 049	252 402	241 827	233 537	238 993	217 820
Final consumption biofuels	713	3 270	12 442	13 329	16 629	16 875
pure and blended biofuel	59	550	2 496	2 344	2 725	2 677
pure and blended biodiesel	640	2 532	9 701	10 927	13 779	14 024
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	1 396.5	1 497.9	1 457.7	1 352.7	1 353.8	1 236.3
Final energy consumption 2020-2030 [Mtoe]	979.5	1 040.9	1 024.1	958.4	986.4	907.0
Primary Energy Intensity 2020-2030 [toe/M€15]	137	135	125	111	102	99
Energy Intensity (GAE/GDP2015) [toe/M€15]	147	145	134	119	110	107
Energy per Capita (GIC/pop) [kgoe/capita]	3 497	3 692	3 538	3 264	3 266	2 996
Final Electricity per Capita [KWh/capita]	6 201	6 713	6 762	6 538	6 501	6 218
Import Dependency [%]	57.8%	59.5%	57.4%	57.6%	62.3%	59.2%
of Solid fossil fuels	29.8%	35.7%	38.2%	41.0%	43.3%	35.8%
of Hard Coal	43.2%	52.5%	57.7%	63.0%	67.9%	57.4%
of Oil and petroleum products	99.8%	101.2%	102.1%	104.7%	105.0%	105.6%
of Crude and NGL	92.5%	93.0%	94.4%	95.9%	96.6%	96.2%
of Natural Gas	65.7%	69.0%	67.8%	74.5%	89.7%	83.6%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		10.24%	14.42%	17.82%	19.88%	22.09%
RE-T - Renewable energy in Transport [%]		2.04%	5.50%	6.75%	8.80%	10.22%
RES-E - Renewable Electricity Generation [%]		16.40%	21.30%	29.65%	34.09%	37.48%
RES-H&C - Renewable Heating and Cooling [%]		12.45%	17.02%	20.31%	22.43%	23.09%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	3 697.6	3 842.9	3 544.6	3 212.4	3 050.2	2 688.0
GHG emissions - National total*	4 528.8	4 632.9	4 276.2	3 924.4	3 734.5	3 354.1
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	92.4%	94.5%	87.3%	80.1%	76.2%	68.4%
Total GHG per capita [t CO ₂ eq/capita]	10.6	10.7	9.7	8.8	8.4	7.5

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

5.2 Belgium

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	13,4	13,8	15,0	10,3	15,2	13,3
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,0	0,0	0,0	0,0	0,0	0,0
of which crude oil	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Nuclear	12,4	12,3	11,6	6,3	10,6	8,4
Renewables and biofuels	0,5	0,9	2,5	3,1	3,6	4,0
Wastes, Non-Renewable	0,4	0,5	0,7	0,7	0,7	0,6
Net Imports	50,6	53,5	53,6	50,1	49,9	45,1
Solid fossil fuels	7,3	5,2	3,7	3,3	3,1	2,4
of which hard coal	6,6	5,0	3,7	2,8	2,5	2,1
Oil and petroleum products	29,6	32,5	32,5	30,4	30,6	26,8
of which crude oil and NGL	34,2	32,0	33,5	32,4	34,6	27,7
Natural gas	13,3	14,9	16,8	13,9	15,5	15,0
Renewables and biofuels	0,1	0,3	0,5	0,7	0,8	0,9
Electricity	0,4	0,5	0,0	1,8	-0,2	0,0
Gross inland consumption	59,4	59,3	60,7	53,7	56,1	51,4
Solid fossil fuels	8,0	5,2	3,8	3,4	3,0	2,4
of which hard coal	7,0	4,9	3,7	2,9	2,5	2,0
of which brown coal	0,2	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	24,2	24,7	24,5	23,5	22,0	19,7
of which crude oil and NGL	34,1	32,1	33,5	32,4	34,6	27,6
Natural gas	13,4	14,8	16,8	14,0	15,2	15,2
Nuclear	12,4	12,3	11,6	6,3	10,6	8,4
Renewables and biofuels	0,6	1,2	3,0	3,7	4,4	4,9
Electricity	0,4	0,5	0,0	1,8	-0,2	0,0
Waste, non-renewable	0,4	0,5	0,7	0,7	0,7	0,6
Available for final consumption	40,8	41,6	43,0	41,0	40,1	38,2
Final non-energy consumption	7,0	7,5	7,0	7,7	7,3	7,1
Final energy consumption	33,6	34,2	35,4	33,1	32,6	31,0
by Fuel/Product						
Solid fossil fuels	0,9	0,6	0,5	0,5	0,5	0,4
Oil and petroleum products	15,1	15,3	14,8	14,1	12,9	11,9
Natural gas	9,3	9,4	10,0	8,9	9,5	9,1
Renewables and biofuels	0,4	0,6	1,7	1,7	2,0	2,1
Solid biofuels and renewable waste	0,4	0,6	1,2	1,3	1,2	1,2
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	0,7
Biogases	0,0	0,0	0,0	0,1	0,1	0,1
Waste, non-renewable	0,1	0,1	0,2	0,2	0,2	0,2
Electricity	6,7	7,0	7,3	7,0	7,0	6,8
Heat	0,5	0,5	0,6	0,5	0,5	0,5
by Sector						
Industry	11,6	10,6	11,0	10,6	10,3	10,0
Transport	8,2	8,7	8,9	8,9	8,8	7,8
Residential	9,5	9,1	9,6	8,2	7,9	7,9
Services	3,5	4,7	5,0	4,6	4,6	4,5
Agriculture and Fishing	0,8	1,0	0,8	0,7	0,9	0,8
Others	0,1	0,1	0,1	0,0	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	15,7	16,1	18,8	21,2	23,9	25,7
Combustible Fuels	8,5	8,7	9,5	8,5	8,1	8,1
Nuclear	5,7	5,8	5,9	5,9	5,9	5,9
Hydro	1,4	1,4	1,4	1,4	1,4	1,4
Wind	0,0	0,2	0,9	2,2	3,9	4,7
Solar	0,0	0,0	1,0	3,1	4,6	5,6
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]	84,0	85,4	94,3	69,2	93,2	88,9
Solid fossil fuels, peat and products, oil shale	12,9	8,2	4,2	2,1	0,1	0,1
Oil and petroleum products	0,8	1,7	0,4	0,2	0,1	0,1
Natural gas	19,1	23,8	32,6	24,1	28,0	28,6
Nuclear	48,2	47,6	47,9	26,1	43,5	34,4
Renewables and biofuels	2,3	3,4	8,0	15,6	20,4	24,5
Wastes non-RES	0,8	0,7	1,2	1,2	1,2	1,2
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			2,6	2,4	2,4	2,4
CHP Electricity Generation [TWh]			15,2	12,5	12,8	13,0
CHP in Total Electricity Generation [%]			16,0	17,7	13,7	13,0
CHP Heat Production [PJ]				104,4	94,8	93,4
Transport Fuels [ktoe]						
Final consumption petroleum products	13 515	14 103	13 213	12 704	11 922	10 846
of which LPG	414	226	337	400	447	475
of which motor gasoline	2 359	1 883	1 274	1 360	1 838	1 527
of which Gas/Diesel oil	10 741	11 993	11 602	10 943	9 637	8 844
Final consumption biofuels	0	1	384	266	490	705
pure and blended biogasoline	0	0	57	41	129	130
pure and blended biodiesel	0	0	316	223	359	575
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	52,4	51,6	53,4	45,7	48,4	43,9
Final energy consumption 2020-2030 [Mtoe]	37,7	36,8	38,1	35,9	35,8	33,3
Primary Energy Intensity 2020-2030 [toe/M€15]	159	142	137	110	109	104
Energy Intensity (GAE/GDP2015) [toe/M€15]	180	163	155	129	126	122
Energy per Capita (GIC/pop) [kgoe/capita]	5 805	5 675	5 599	4 777	4 896	4 464
Final Electricity per Capita [KWh/capita]	8 205	8 176	8 701	6 162	8 136	7 715
Import Dependency [%]	85,2%	90,2%	88,4%	93,3%	88,9%	87,7%
of Solid fossil fuels	91,2%	101,3%	97,5%	95,7%	102,1%	102,7%
of Hard Coal	93,5%	102,0%	100,0%	96,3%	102,7%	104,2%
of Oil and petroleum products	122,3%	131,9%	132,7%	129,5%	139,2%	136,0%
of Crude and NGL	100,2%	99,5%	99,9%	100,0%	100,0%	100,5%
of Natural Gas	99,3%	100,5%	100,3%	99,3%	101,9%	99,2%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		2.33%	6.00%	8.06%	9.93%	13.00%
RE-T - Renewable energy in Transport [%]		0.67%	4.80%	3.92%	6.82%	11.03%
RES-E - Renewable Electricity Generation [%]		2.35%	7.23%	15.57%	20.82%	25.12%
RES-H&C - Renewable Heating and Cooling [%]		3.41%	6.70%	7.94%	8.32%	8.45%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	131,4	129,2	118,7	105,5	104,6	94,0
GHG emissions - National total*	153,6	149,1	137,9	123,4	121,7	110,1
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	103,2%	100,2%	92,6%	82,9%	81,7%	74,0%
Total GHG per capita [t CO ₂ eq/capita]	15,0	14,3	12,7	11,0	10,6	9,6

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

5.3 Bulgaria

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	9,9	10,6	10,5	12,0	11,7	10,8
Solid fossil fuels	4,3	4,2	4,9	5,8	4,7	3,7
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	4,2	4,2	4,9	5,8	4,7	3,7
Oil and petroleum products	0,0	0,0	0,0	0,0	0,0	0,0
of which crude oil	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,4	0,1	0,1	0,0	0,0
Nuclear	4,7	4,9	3,8	3,9	4,3	4,3
Renewables and biofuels	0,8	1,1	1,5	2,1	2,6	2,6
Wastes, Non-Renewable	0,0	0,1	0,0	0,0	0,1	0,1
Net Imports	8,7	9,6	7,2	6,8	7,2	6,8
Solid fossil fuels	2,3	2,6	1,7	0,7	0,4	0,4
of which hard coal	2,2	2,5	1,7	0,7	0,4	0,4
Oil and petroleum products	4,1	5,2	4,2	4,5	5,0	4,3
of which crude oil and NGL	5,3	6,1	5,5	6,2	7,1	4,9
Natural gas	2,7	2,5	2,1	2,5	2,5	2,4
Renewables and biofuels	0,0	0,0	-0,1	0,0	-0,1	0,0
Electricity	-0,4	-0,7	-0,7	-0,9	-0,5	-0,3
Gross inland consumption	18,6	20,1	17,9	18,7	18,8	17,8
Solid fossil fuels	6,4	6,9	6,9	6,6	5,2	4,3
of which hard coal	2,2	2,6	1,9	0,7	0,6	0,5
of which brown coal	4,2	4,2	4,9	5,8	4,6	3,7
Oil and petroleum products	4,2	5,0	4,0	4,3	4,8	4,3
of which crude oil and NGL	5,4	6,3	5,6	6,1	6,9	5,0
Natural gas	2,9	2,8	2,3	2,6	2,4	2,5
Nuclear	4,7	4,9	3,8	3,9	4,3	4,3
Renewables and biofuels	0,8	1,1	1,5	2,1	2,5	2,6
Electricity	-0,4	-0,7	-0,7	-0,9	-0,5	-0,3
Waste, non-renewable	0,0	0,1	0,0	0,0	0,1	0,1
Available for final consumption	9,6	10,5	9,2	10,1	10,3	10,3
Final non-energy consumption	1,0	0,8	0,4	0,6	0,5	0,5
Final energy consumption	8,6	9,6	8,7	9,4	9,7	9,5
by Fuel/Product						
Solid fossil fuels	0,6	0,7	0,4	0,3	0,3	0,3
Oil and petroleum products	3,0	3,5	3,0	3,2	3,6	3,4
Natural gas	1,4	1,4	1,1	1,3	1,1	1,2
Renewables and biofuels	0,5	0,7	1,0	1,3	1,4	1,6
Solid biofuels and renewable waste	0,5	0,7	0,9	1,0	1,1	1,2
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	0,0	0,1	0,2	0,2
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,1	0,0	0,0	0,1	0,1
Electricity	2,1	2,2	2,3	2,4	2,6	2,5
Heat	0,9	0,9	1,0	0,8	0,5	0,6
by Sector						
Industry	3,6	3,6	2,5	2,7	2,7	2,6
Transport	1,9	2,7	2,7	3,2	3,4	3,2
Residential	2,1	2,1	2,2	2,2	2,2	2,4
Services	0,7	0,8	1,0	1,1	1,3	1,1
Agriculture and Fishing	0,3	0,3	0,2	0,2	0,2	0,2
Others	0,0	0,0	0,0	0,0	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	11,1	12,3	10,0	10,9	11,2	11,0
Combustible Fuels	5,7	6,7	4,6	4,0	4,1	3,8
Nuclear	3,5	2,7	1,9	2,0	2,0	2,0
Hydro	1,9	2,8	3,0	3,2	3,4	3,4
Wind	0,0	0,0	0,5	0,7	0,7	0,7
Solar	0,0	0,0	0,0	1,0	1,0	1,1
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]	40,9	44,4	46,6	49,2	44,3	40,7
Solid fossil fuels, peat and products, oil shale	16,9	18,5	22,6	22,5	17,2	13,5
Oil and petroleum products	0,7	0,6	0,4	0,2	0,4	0,3
Natural gas	2,2	1,9	2,0	1,9	2,2	2,3
Nuclear	18,2	18,7	15,2	15,4	16,6	16,6
Renewables and biofuels	3,0	4,7	6,4	9,3	8,0	8,0
Wastes non-RES	0,0	0,0	0,0	0,0	0,0	0,0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			1,0	1,1	1,2	1,3
CHP Electricity Generation [TWh]			3,7	2,9	3,9	3,8
CHP in Total Electricity Generation [%]			8,0	6,0	8,8	8,1
CHP Heat Production [PJ]			40,4	31,9	39,6	36,2
Transport Fuels [ktoe]						
Final consumption petroleum products	2 162	2 803	2 658	3 037	3 278	3 110
of which LPG	245	479	418	514	485	460
of which motor gasoline	697	571	611	520	473	459
of which Gas/Diesel oil	1 219	1 752	1 630	2 002	2 320	2 191
Final consumption biofuels	0	0	13	146	179	172
pure and blended biogasoline	0	0	0	32	32	27
pure and blended biodiesel	0	0	10	114	148	146
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	17,7	19,2	17,4	18,0	18,2	17,2
Final energy consumption 2020-2030 [Mtoe]	9,1	10,1	8,8	9,5	9,8	9,5
Primary Energy Intensity 2020-2030 [toe/M€15]	644	532	406	392	352	347
Energy Intensity (GAE/GDP2015) [toe/M€15]	680	556	418	408	364	360
Energy per Capita (GIC/pop) [kgoe/capita]	2 275	2 612	2 414	2 594	2 692	2 566
Final Electricity per Capita [KWh/capita]	4 996	5 770	6 284	6 832	6 324	5 859
Import Dependency [%]	46,6%	47,6%	40,4%	36,6%	38,3%	38,1%
of Solid fossil fuels	35,2%	36,9%	24,5%	11,2%	7,2%	9,2%
of Hard Coal	101,0%	94,0%	86,0%	96,1%	57,6%	69,0%
of Oil and petroleum products	97,5%	104,9%	104,3%	103,9%	104,2%	99,4%
of Crude and NGL	98,7%	97,7%	99,1%	100,5%	102,6%	99,4%
of Natural Gas	93,5%	87,7%	92,6%	97,0%	100,4%	96,4%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		9.17%	13.93%	18.26%	21.55%	23.32%
RE-T - Renewable energy in Transport [%]		0.88%	1.50%	6.49%	7.89%	9.10%
RES-E - Renewable Electricity Generation [%]		8.67%	12.36%	18.98%	23.51%	23.59%
RES-H&C - Renewable Heating and Cooling [%]		14.26%	24.33%	28.90%	35.42%	37.18%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	45,7	51,2	48,4	48,8	43,0	37,4
GHG emissions - National total*	57,2	62,6	59,8	62,8	60,2	49,6
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	57,7%	63,2%	60,4%	63,4%	60,8%	50,1%
Total GHG per capita [t CO ₂ eq/capita]	7,0	8,1	8,1	8,7	8,6	7,1

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

5.4 Czechia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	30,8	33,2	31,9	28,6	26,6	23,5
Solid fossil fuels	25,0	23,6	20,7	16,8	13,4	10,2
of which hard coal	9,4	8,4	7,4	5,3	2,2	1,4
of which brown coal	15,6	15,2	13,3	11,5	11,1	8,8
Oil and petroleum products	0,4	0,6	0,3	0,2	0,2	0,1
of which crude oil	0,2	0,3	0,2	0,1	0,1	0,1
Natural gas	0,2	0,2	0,2	0,2	0,2	0,2
Nuclear	3,5	6,5	7,2	6,7	7,5	7,5
Renewables and biofuels	1,6	2,3	3,3	4,4	5,0	5,2
Wastes, Non-Renewable	0,1	0,2	0,2	0,3	0,4	0,4
Net Imports	9,4	12,7	11,5	13,5	17,5	15,6
Solid fossil fuels	-4,7	-3,3	-2,9	-0,3	1,2	1,6
of which hard coal	-3,5	-2,8	-2,7	-0,4	1,5	1,8
Oil and petroleum products	7,5	9,7	9,0	8,7	9,6	8,7
of which crude oil and NGL	5,6	7,7	7,8	7,2	7,9	6,3
Natural gas	7,5	7,5	6,8	6,2	7,9	6,3
Renewables and biofuels	0,0	-0,2	-0,1	0,0	-0,1	0,0
Electricity	-0,9	-1,1	-1,3	-1,1	-1,1	-0,9
Gross inland consumption	41,3	45,5	45,5	42,1	42,9	40,2
Solid fossil fuels	21,6	20,2	18,8	16,4	14,2	12,2
of which hard coal	6,2	5,6	5,1	4,9	3,5	3,4
of which brown coal	15,6	14,8	13,5	11,2	10,7	8,8
Oil and petroleum products	7,9	10,0	9,3	8,9	9,9	8,6
of which crude oil and NGL	5,8	7,8	8,0	7,3	8,0	6,2
Natural gas	7,5	7,7	8,1	6,5	7,2	7,3
Nuclear	3,5	6,5	7,2	6,7	7,5	7,5
Renewables and biofuels	1,6	2,1	3,2	4,4	4,9	5,1
Electricity	-0,9	-1,1	-1,3	-1,1	-1,1	-0,9
Waste, non-renewable	0,1	0,2	0,2	0,3	0,4	0,4
Available for final consumption	26,4	28,2	27,7	25,9	27,2	26,0
Final non-energy consumption	2,1	3,0	2,9	2,5	3,0	2,5
Final energy consumption	24,0	24,9	24,1	23,1	24,2	23,8
by Fuel/Product						
Solid fossil fuels	4,2	2,9	1,9	1,6	1,4	1,4
Oil and petroleum products	5,2	6,5	6,3	6,4	6,7	6,4
Natural gas	5,9	6,2	6,1	5,0	5,2	5,2
Renewables and biofuels	1,2	1,7	2,3	2,8	3,2	3,4
Solid biofuels and renewable waste	1,1	1,6	2,0	2,3	2,5	2,6
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	0,1	0,0	0,2	0,3	0,3	0,4
Biogases	0,0	0,0	0,1	0,1	0,1	0,2
Waste, non-renewable	0,1	0,1	0,2	0,2	0,3	0,3
Electricity	4,2	4,6	4,7	4,7	5,0	4,9
Heat	2,6	2,5	2,4	2,0	2,0	2,0
by Sector						
Industry	9,2	8,7	6,9	6,5	6,6	6,6
Transport	4,2	5,7	5,9	6,2	6,8	6,4
Residential	6,4	6,7	7,4	6,8	7,0	7,1
Services	3,0	3,1	3,2	3,0	3,2	3,0
Agriculture and Fishing	0,7	0,5	0,5	0,6	0,6	0,6
Others	0,5	0,1	0,1	0,1	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	15,3	17,4	20,1	21,9	22,0	21,4
Combustible Fuels	11,5	11,5	12,0	13,0	13,0	12,4
Nuclear	1,8	3,8	3,9	4,3	4,3	4,3
Hydro	2,1	2,2	2,2	2,3	2,3	2,3
Wind	0,0	0,0	0,2	0,3	0,3	0,3
Solar	0,0	0,0	1,7	2,1	2,1	2,1
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]	73,5	82,6	85,8	83,8	86,9	81,4
Solid fossil fuels, peat and products, oil shale	52,8	49,5	46,9	41,1	37,3	31,0
Oil and petroleum products	0,4	0,3	0,2	0,1	0,1	0,1
Natural gas	3,9	4,2	4,2	5,0	7,9	8,5
Nuclear	13,6	24,7	28,0	26,8	30,2	30,0
Renewables and biofuels	2,8	3,8	6,5	10,7	11,2	11,6
Wastes non-RES	0,0	0,0	0,0	0,1	0,1	0,1
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			4,8	4,6	8,5	8,3
CHP Electricity Generation [TWh]			12,2	11,8	9,9	10,2
CHP in Total Electricity Generation [%]			14,2	14,0	11,4	12,0
CHP Heat Production [PJ]			135,7	106,0	99,1	100,2
Transport Fuels [ktoe]						
Final consumption petroleum products	4646	6063	5924	6142	6625	6193
of which LPG	199	165	117	182	177	174
of which motor gasoline	1922	2125	1868	1570	1602	1456
of which Gas/Diesel oil	2526	3772	3939	4390	4847	4563
Final consumption biofuels	62	3	231	297	340	372
pure and blended biogasoline	0	0	58	63	74	66
pure and blended biodiesel	62	3	173	233	267	307
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	39,1	42,5	42,5	39,4	39,8	37,5
Final energy consumption 2020-2030 [Mtoe]	25,1	26,1	25,3	24,2	25,3	24,5
Primary Energy Intensity 2020-2030 [toe/M€15]	344	308	273	233	204	205
Energy Intensity (GAE/GDP2015) [toe/M€15]	363	330	292	248	221	220
Energy per Capita (GIC/pop) [kgoe/capita]	4017	4465	4346	3990	4032	3760
Final Electricity per Capita [KWh/capita]	7148	8097	8203	7953	8160	7612
Import Dependency [%]	22,7%	27,8%	25,4%	32,1%	40,8%	38,9%
of Solid fossil fuels	-22,0%	-16,2%	-15,3%	-1,8%	8,7%	13,0%
of Hard Coal	-56,4%	-49,4%	-53,9%	-8,6%	41,7%	52,0%
of Oil and petroleum products	95,3%	97,5%	96,5%	97,8%	97,5%	101,2%
of Crude and NGL	95,2%	99,3%	97,5%	98,4%	98,6%	101,7%
of Natural Gas	99,8%	97,8%	84,8%	95,1%	109,8%	86,0%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		7.12%	10.51%	15.07%	16.24%	17.30%
RE-T - Renewable energy in Transport [%]		1.10%	5.22%	6.54%	7.84%	9.38%
RES-E - Renewable Electricity Generation [%]		3.78%	7.52%	14.07%	14.05%	14.81%
RES-H&C - Renewable Heating and Cooling [%]		10.84%	14.10%	19.79%	22.63%	23.53%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	128,9	127,8	119,4	106,7	103,0	92,8
GHG emissions - National total*	151,4	150,2	141,5	129,9	124,8	113,7
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	75,9%	75,3%	70,9%	65,1%	62,6%	57,0%
Total GHG per capita [t CO ₂ eq/capita]	14,7	14,7	13,5	12,3	11,7	10,6

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

5.5 Denmark

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	27,8	31,3	23,4	16,2	12,5	9,5
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	18,3	19,0	12,5	7,9	5,2	3,6
of which crude oil	18,3	19,0	12,5	7,9	5,2	3,6
Natural gas	7,4	9,4	7,3	4,1	2,8	1,2
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	1,8	2,5	3,1	3,7	4,2	4,3
Wastes, Non-Renewable	0,3	0,4	0,4	0,4	0,4	0,4
Net Imports	-7,5	-10,4	-3,4	2,4	7,0	7,4
Solid fossil fuels	3,8	3,5	2,6	1,5	1,3	0,5
of which hard coal	3,8	3,5	2,6	1,5	1,3	0,5
Oil and petroleum products	-8,5	-9,4	-3,8	0,4	3,4	3,5
of which crude oil and NGL	-10,0	-11,2	-5,1	-0,4	2,8	3,7
Natural gas	-2,9	-5,0	-3,0	-1,4	-0,2	0,8
Renewables and biofuels	0,1	0,4	0,9	1,2	1,8	1,9
Electricity	0,1	0,1	-0,1	0,5	0,5	0,6
Gross inland consumption	19,5	19,8	20,4	17,3	17,3	15,9
Solid fossil fuels	4,0	3,7	3,8	1,8	0,9	0,7
of which hard coal	4,0	3,7	3,8	1,8	0,9	0,7
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	8,8	8,3	7,8	6,7	6,9	5,8
of which crude oil and NGL	8,3	7,9	7,4	7,5	7,8	7,3
Natural gas	4,4	4,4	4,4	2,9	2,5	2,1
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	1,9	2,9	4,0	5,0	6,0	6,2
Electricity	0,1	0,1	-0,1	0,5	0,5	0,6
Waste, non-renewable	0,3	0,4	0,4	0,4	0,4	0,4
Available for final consumption	14,3	14,7	15,0	13,5	13,9	13,5
Final non-energy consumption	0,3	0,3	0,3	0,3	0,2	0,2
Final energy consumption	14,0	14,7	14,9	13,5	13,5	13,1
by Fuel/Product						
Solid fossil fuels	0,3	0,3	0,1	0,1	0,1	0,1
Oil and petroleum products	6,3	6,4	5,9	5,1	5,1	4,7
Natural gas	1,7	1,7	1,7	1,5	1,5	1,5
Renewables and biofuels	0,7	1,0	1,4	1,6	1,6	1,6
Solid biofuels and renewable waste	0,6	0,9	1,2	1,2	1,1	1,0
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	0,0	0,2	0,2	0,3
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,0	0,0	0,0	0,0	0,0
Electricity	2,8	2,9	2,8	2,6	2,7	2,7
Heat	2,3	2,4	2,8	2,5	2,5	2,4
by Sector						
Industry	2,9	2,9	2,4	2,1	2,3	2,3
Transport	4,0	4,4	4,4	4,2	4,2	3,9
Residential	4,2	4,5	5,0	4,4	4,4	4,3
Services	1,8	2,0	2,1	1,9	1,9	1,8
Agriculture and Fishing	1,0	0,9	0,9	0,8	0,7	0,7
Others	0,0	0,1	0,0	0,0	0,1	0,1

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	12.3	13.0	13.4	14.0	15.1	15.5
Combustible Fuels	9.9	9.9	9.6	8.1	7.9	7.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	2.4	3.1	3.8	5.1	6.1	6.3
Solar	0.0	0.0	0.0	0.8	1.1	1.3
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]	36.0	36.2	38.9	28.9	29.5	28.7
Solid fossil fuels, peat and products, oil shale	16.7	15.5	17.0	7.1	3.3	3.1
Oil and petroleum products	4.4	1.4	0.8	0.3	0.2	0.3
Natural gas	8.8	8.8	7.9	1.8	2.1	1.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	5.6	9.8	12.4	18.9	23.1	23.5
Wastes non-RES	0.6	0.8	0.7	0.8	0.8	0.8
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			5.8	6.1	5.1	5.0
CHP Electricity Generation [TWh]			19.1	11.6	10.6	8.3
CHP in Total Electricity Generation [%]			49.2	40.0	35.9	25.0
CHP Heat Production [PJ]			124.7	93.3	91.9	80.8
Transport Fuels [ktoe]						
Final consumption petroleum products	5 754	5 938	5 586	4 846	4 768	4 430
of which LPG	81	78	59	55	64	63
of which motor gasoline	2 055	1 954	1 602	1 412	1 339	1 194
of which Gas/Diesel oil	3 619	3 906	3 925	3 378	3 365	3 172
Final consumption biofuels	0	0	28	215	226	251
pure and blended biogasoline	0	0	27	44	44	80
pure and blended biodiesel	0	0	1	171	183	172
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	19.1	19.4	20.0	16.8	16.8	15.3
Final energy consumption 2020-2030 [Mtoe]	14.7	15.5	15.5	14.2	14.3	13.1
Primary Energy Intensity 2020-2030 [toe/M€15]	81	77	78	62	56	52
Energy Intensity (GAE/GDP2015) [toe/M€15]	82	78	80	63	57	54
Energy per Capita (GIC/pop) [kgoe/capita]	3 658	3 663	3 680	3 049	2 975	2 728
Final Electricity per Capita [kWh/capita]	6 757	6 698	7 021	5 113	5 085	4 935
Import Dependency [%]	-38.3%	-52.6%	-16.6%	13.6%	40.4%	46.4%
of Solid fossil fuels	94.9%	94.4%	69.4%	85.0%	154.0%	74.9%
of Hard Coal	94.8%	94.3%	69.3%	85.0%	154.5%	74.0%
of Oil and petroleum products	-96.5%	-114.2%	-48.3%	5.9%	49.6%	60.3%
of Crude and NGL	-120.5%	-141.3%	-68.8%	-4.9%	36.0%	50.7%
of Natural Gas	-64.8%	-113.9%	-68.3%	-48.2%	-7.2%	37.4%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		15.96%	21.89%	30.47%	37.02%	31.68%
RE-T - Renewable energy in Transport [%]		0.44%	1.15%	6.43%	7.11%	9.70%
RES-E - Renewable Electricity Generation [%]		24.65%	32.74%	51.29%	65.35%	65.32%
RES-H&C - Renewable Heating and Cooling [%]		22.78%	30.45%	39.54%	47.30%	51.07%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	57.5	54.8	52.1	38.2	34.3	29.5
GHG emissions - National total*	73.8	69.6	66.2	51.6	47.6	42.7
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	101,3%	95,5%	90,9%	70,8%	65,3%	58,6%
Total GHG per capita [t CO ₂ eq/capita]	13,8	12,9	12,0	9,1	8,2	7,3

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

5.6 Germany

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	135,2	137,8	131,7	120,5	105,3	97,8
Solid fossil fuels	60,6	56,5	45,9	43,0	28,4	23,4
of which hard coal	24,2	18,0	9,2	4,6	0,0	0,0
of which brown coal	36,4	38,4	36,7	38,4	28,4	23,4
Oil and petroleum products	4,4	5,1	3,7	3,5	3,2	3,1
of which crude oil	3,2	3,6	2,5	2,5	2,0	1,9
Natural gas	15,8	14,3	11,1	6,3	4,4	4,0
Nuclear	43,8	42,1	36,2	23,6	19,3	16,6
Renewables and biofuels	9,0	18,0	30,9	39,8	45,7	46,5
Wastes, Non-Renewable	1,7	1,8	3,9	4,3	4,2	4,2
Net Imports	204,9	212,0	204,6	199,1	207,5	182,2
Solid fossil fuels	21,7	26,0	31,6	36,1	26,7	19,7
of which hard coal	17,2	23,8	29,1	35,2	26,5	19,6
Oil and petroleum products	126,1	123,7	112,2	108,4	108,4	97,3
of which crude oil and NGL	101,5	114,5	94,0	92,3	87,2	84,0
Natural gas	56,9	61,9	61,6	58,7	75,7	66,5
Renewables and biofuels	0,0	0,8	0,4	0,2	-0,4	0,4
Electricity	0,3	-0,4	-1,3	-4,2	-2,8	-1,6
Gross inland consumption	342,4	346,5	338,2	318,1	308,1	284,7
Solid fossil fuels	84,8	81,8	79,1	79,4	56,5	44,6
of which hard coal	43,8	41,2	39,8	40,2	27,8	21,1
of which brown coal	37,2	38,4	36,7	38,1	28,5	23,4
Oil and petroleum products	131,1	124,6	113,2	109,9	110,0	99,5
of which crude oil and NGL	108,2	117,7	96,6	95,1	88,7	85,4
Natural gas	71,9	77,8	75,9	65,2	75,6	74,6
Nuclear	43,8	42,1	36,2	23,6	19,3	16,6
Renewables and biofuels	9,0	18,8	31,3	39,9	45,3	46,9
Electricity	0,3	-0,4	-1,3	-4,2	-2,8	-1,6
Waste, non-renewable	1,7	1,8	3,9	4,3	4,2	4,2
Available for final consumption	234,8	235,9	233,1	220,8	225,5	214,6
Final non-energy consumption	25,3	24,7	22,6	21,3	21,6	21,0
Final energy consumption	207,2	207,3	209,9	200,0	200,8	193,6
by Fuel/Product						
Solid fossil fuels	5,6	4,0	4,4	4,7	3,4	3,4
Oil and petroleum products	92,3	82,2	74,9	73,0	72,5	67,6
Natural gas	53,0	52,6	54,0	49,3	52,4	51,8
Renewables and biofuels	4,8	10,1	16,2	15,6	16,6	17,3
Solid biofuels and renewable waste	4,4	7,4	11,2	9,9	10,4	10,1
Solar thermal	0,1	0,3	0,5	0,7	0,7	0,7
Geothermal	0,0	0,0	0,1	0,1	0,1	0,1
Liquid biofuels	0,2	1,9	3,2	2,7	2,8	3,6
Biogases	0,1	0,3	0,8	1,3	1,4	1,4
Waste, non-renewable	0,0	0,3	1,0	1,0	1,3	1,3
Electricity	41,6	44,9	45,7	44,3	42,7	41,3
Heat	6,8	10,6	11,3	9,6	9,6	9,0
by Sector						
Industry	51,4	54,5	56,7	56,1	55,6	54,2
Transport	60,0	54,8	53,1	55,1	56,2	51,0
Residential	65,3	63,7	63,8	55,0	57,7	58,0
Services	25,8	33,7	34,8	32,3	27,5	26,8
Agriculture and Fishing	0,3	0,2	1,3	1,5	3,6	3,6
Others	4,3	0,3	0,2	0,1	0,1	0,1

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	118,9	128,5	162,9	203,3	231,5	233,7
Combustible Fuels	80,8	76,4	85,8	97,0	100,5	98,3
Nuclear	22,4	20,4	20,5	10,8	9,5	8,1
Hydro	9,5	10,9	11,2	11,3	10,7	10,8
Wind	6,1	18,3	27,0	44,6	60,7	62,2
Solar	0,1	2,1	18,0	39,2	48,9	53,7
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]	576,5	620,2	631,0	646,5	605,4	571,1
Solid fossil fuels, peat and products, oil shale	296,7	288,1	262,9	272,2	171,5	133,6
Oil and petroleum products	4,8	12,0	8,7	6,2	4,8	4,9
Natural gas	60,0	83,6	100,9	74,5	101,1	104,9
Nuclear	169,6	163,1	140,6	91,8	75,1	64,4
Renewables and biofuels	39,7	70,2	111,6	194,7	246,3	256,7
Wastes non-RES	5,8	3,3	6,4	7,1	6,8	6,6
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			24,6	37,1	54,8	53,4
CHP Electricity Generation [TWh]			83,2	78,8	86,9	85,5
CHP in Total Electricity Generation [%]			13,2	12,2	14,3	14,3
CHP Heat Production [PJ]			675,8	669,9	663,2	638,8
Transport Fuels [ktoe]						
Final consumption petroleum products	89321	78716	72135	70165	70460	65956
of which LPG	1909	1644	2075	1607	1729	1665
of which motor gasoline	30479	24121	19204	17226	16989	15311
of which Gas/Diesel oil	56933	52951	50857	51332	51741	48981
Final consumption biofuels	236	1927	3166	2716	2827	3552
pure and blended biogasoline	0	153	749	744	725	696
pure and blended biodiesel	222	1597	2244	1926	2044	2800
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	317,1	321,6	315,2	295,9	285,2	262,3
Final energy consumption 2020-2030 [Mtoe]	220,2	219,7	223,0	212,7	214,7	201,7
Primary Energy Intensity 2020-2030 [toe/M€15]	124	123	113	98	88	85
Energy Intensity (GAE/GDP2015) [toe/M€15]	134	132	122	105	95	92
Energy per Capita (GIC/pop) [kgoe/capita]	4168	4200	4135	3918	3712	3424
Final Electricity per Capita [KWh/capita]	7017	7517	7714	7962	7293	6867
Import Dependency [%]	59,8%	61,2%	60,5%	62,6%	67,4%	64,0%
of Solid fossil fuels	25,6%	31,7%	40,0%	45,4%	47,2%	44,1%
of Hard Coal	39,2%	57,7%	73,2%	87,6%	95,2%	92,8%
of Oil and petroleum products	96,2%	99,3%	99,1%	98,7%	98,5%	97,8%
of Crude and NGL	93,8%	97,3%	97,3%	97,1%	98,3%	98,3%
of Natural Gas	79,1%	79,6%	81,2%	90,1%	100,1%	89,1%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		7.17%	11.67%	14.91%	17.27%	19.31%
RE-T - Renewable energy in Transport [%]		3.95%	6.41%	6.57%	7.63%	9.92%
RES-E - Renewable Electricity Generation [%]		10.58%	18.24%	30.88%	40.60%	44.70%
RES-H&C - Renewable Heating and Cooling [%]		7.71%	12.06%	13.44%	14.50%	14.81%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	918,6	889,1	856,8	820,1	736,8	653,0
GHG emissions - National total*	1056,3	1009,7	960,2	922,7	829,6	742,5
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	84,2%	80,5%	76,6%	73,6%	66,2%	59,2%
Total GHG per capita [t CO ₂ eq/capita]	12,9	12,2	11,7	11,4	10,0	8,9

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

5.7 Estonia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	3,4	4,0	5,1	4,9	5,0	4,4
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,0	0,0	0,0	0,0	0,0	0,0
of which crude oil	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,5	0,7	1,0	1,3	1,9	1,8
Wastes, Non-Renewable	0,0	0,0	0,0	0,0	0,0	0,0
Net Imports	1,6	1,5	0,9	0,6	0,2	0,5
Solid fossil fuels	0,1	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,1	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,8	0,9	0,8	0,6	0,3	0,3
of which crude oil and NGL	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,7	0,8	0,6	0,4	0,4	0,4
Renewables and biofuels	0,0	-0,1	-0,1	-0,4	-0,6	-0,5
Electricity	-0,1	-0,1	-0,3	-0,1	0,2	0,3
Gross inland consumption	4,7	5,5	5,9	4,9	4,8	4,5
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,1	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,7	0,8	0,6	0,3	0,1	0,0
of which crude oil and NGL	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,7	0,8	0,6	0,4	0,4	0,3
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,5	0,6	0,9	0,9	1,2	1,3
Electricity	-0,1	-0,1	-0,3	-0,1	0,2	0,3
Waste, non-renewable	0,0	0,0	0,0	0,0	0,0	0,0
Available for final consumption	2,5	3,2	3,1	2,5	2,8	2,9
Final non-energy consumption	0,2	0,2	0,1	0,1	0,1	0,2
Final energy consumption	2,4	2,8	2,9	2,8	2,8	2,7
by Fuel/Product						
Solid fossil fuels	0,1	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,7	0,9	0,9	1,0	1,0	0,9
Natural gas	0,2	0,3	0,2	0,2	0,2	0,2
Renewables and biofuels	0,4	0,4	0,6	0,5	0,4	0,5
Solid biofuels and renewable waste	0,4	0,4	0,5	0,5	0,4	0,4
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	0,0	0,0	0,0	0,0
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,0	0,0	0,0	0,0	0,0
Electricity	0,4	0,5	0,6	0,6	0,6	0,6
Heat	0,5	0,5	0,5	0,4	0,5	0,5
by Sector						
Industry	0,6	0,7	0,6	0,5	0,5	0,4
Transport	0,6	0,7	0,8	0,8	0,8	0,8
Residential	0,9	0,9	1,0	0,9	1,0	0,9
Services	0,3	0,4	0,4	0,5	0,5	0,5
Agriculture and Fishing	0,1	0,1	0,1	0,1	0,1	0,1
Others	0,0	0,0	0,0	0,0	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	2.8	2.6	2.8	2.9	2.7	2.7
Combustible Fuels	2.8	2.5	2.6	2.6	2.3	2.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.1	0.3	0.3	0.3
Solar	0.0	0.0	0.0	0.0	0.1	0.2
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]	8.5	10.2	13.0	10.1	7.6	6.0
Solid fossil fuels, peat and products, oil shale	7.7	9.3	11.2	7.9	4.3	2.2
Oil and petroleum products	0.1	0.0	0.0	0.1	0.0	0.0
Natural gas	0.8	0.8	0.7	0.5	1.1	0.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.0	0.1	1.0	1.6	2.1	2.8
Wastes non-RES	0.0	0.0	0.0	0.1	0.1	0.1
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0.4	0.4	0.2	0.5
CHP Electricity Generation [TWh]			1.3	1.2	1.0	1.4
CHP in Total Electricity Generation [%]			10.3	11.9	13.6	19.3
CHP Heat Production [PJ]			12.3	12.5	3.6	12.8
Transport Fuels [ktoe]						
Final consumption petroleum products	655	877	883	945	956	885
of which LPG	8	8	11	20	30	27
of which motor gasoline	296	305	289	243	276	216
of which Gas/Diesel oil	351	564	583	683	650	642
Final consumption biofuels	0	0	8	3	27	39
pure and blended biogasoline	0	0	4	3	7	6
pure and blended biodiesel	0	0	3	0	20	33
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	4.6	5.3	5.8	4.8	4.7	4.3
Final energy consumption 2020-2030 [Mtoe]	2.4	2.9	2.9	2.8	2.9	2.8
Primary Energy Intensity 2020-2030 [toe/M€15]	363	296	333	231	192	182
Energy Intensity (GAE/GDP2015) [toe/M€15]	376	308	338	235	197	190
Energy per Capita (GIC/pop) [kgoe/capita]	3361	4044	4443	3690	3621	3378
Final Electricity per Capita [KWh/capita]	6075	7510	9723	7718	5748	4482
Import Dependency [%]	34,7%	27,5%	15,2%	11,8%	5,0%	11,2%
of Solid fossil fuels	125.2%	88.4%	132.6%	-6.8%	107.2%	391.7%
of Hard Coal	116.1%	96.4%	118.3%	24.1%	96.7%	28.5%
of Oil and petroleum products	117.3%	113.2%	130.2%	188.9%	547.2%	-1580.2%
of Crude and NGL	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
of Natural Gas	100.0%	100.0%	100.0%	100.0%	105.4%	106.3%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		17.43%	24.60%	28.99%	31.73%	30.07%
RE-T - Renewable energy in Transport [%]		0.24%	0.43%	0.41%	6.24%	12.16%
RES-E - Renewable Electricity Generation [%]		1.13%	10.29%	16.15%	22.00%	28.29%
RES-H&C - Renewable Heating and Cooling [%]		32.22%	43.25%	50.03%	52.19%	58.83%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	15,6	17,2	19,1	16,0	12,6	9,4
GHG emissions - National total*	17,5	19,3	21,3	18,2	14,8	11,6
Main Emissions Indicators						
GHG national total emissions (index 1990=100)	43,6%	47,9%	52,8%	45,2%	36,9%	28,9%
Total GHG per capita [t CO ₂ eq/capita]	12,5	14,2	16,0	13,8	11,2	8,7

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

5.8 Ireland

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	2,2	1,7	1,8	2,0	4,1	3,5
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,0	0,0	0,0	0,0	0,0	0,0
of which crude oil	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	1,0	0,5	0,2	0,1	2,1	1,7
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,2	0,4	0,6	1,0	1,5	1,6
Wastes, Non-Renewable	0,0	0,0	0,0	0,1	0,1	0,1
Net Imports	12,4	14,0	13,3	12,8	10,4	9,9
Solid fossil fuels	1,7	1,9	1,0	1,5	0,3	0,3
of which hard coal	1,7	1,9	0,9	1,5	0,3	0,3
Oil and petroleum products	8,2	8,9	7,7	7,5	7,5	6,6
of which crude oil and NGL	3,0	3,3	3,0	3,7	2,6	3,0
Natural gas	2,5	3,0	4,5	3,6	2,4	2,9
Renewables and biofuels	0,0	0,0	0,1	0,1	0,2	0,2
Electricity	0,0	0,2	0,0	0,1	0,1	0,0
Gross inland consumption	14,4	15,5	15,1	14,2	15,0	13,7
Solid fossil fuels	1,8	1,9	1,2	1,5	0,4	0,4
of which hard coal	1,8	1,9	1,2	1,4	0,4	0,4
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	8,2	8,8	7,8	7,0	7,4	6,2
of which crude oil and NGL	3,4	3,4	3,0	3,4	2,6	2,9
Natural gas	3,4	3,5	4,7	3,8	4,6	4,6
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,2	0,4	0,7	1,1	1,6	1,8
Electricity	0,0	0,2	0,0	0,1	0,1	0,0
Waste, non-renewable	0,0	0,0	0,0	0,1	0,1	0,1
Available for final consumption	10,4	11,1	11,3	10,8	11,6	11,1
Final non-energy consumption	0,7	0,5	0,3	0,2	0,2	0,2
Final energy consumption	10,2	11,8	11,2	10,5	11,3	10,8
by Fuel/Product						
Solid fossil fuels	0,4	0,5	0,4	0,3	0,2	0,2
Oil and petroleum products	6,5	7,4	6,5	5,6	5,9	5,5
Natural gas	1,2	1,4	1,6	1,7	2,0	2,0
Renewables and biofuels	0,1	0,2	0,3	0,4	0,5	0,5
Solid biofuels and renewable waste	0,1	0,2	0,2	0,2	0,2	0,2
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	0,1	0,1	0,2	0,2
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,0	0,0	0,0	0,1	0,1
Electricity	1,7	2,1	2,2	2,2	2,4	2,5
Heat	0,0	0,0	0,0	0,0	0,0	0,0
by Sector						
Industry	2,5	2,5	1,9	2,0	2,2	2,2
Transport	3,5	4,3	3,9	3,9	4,1	3,5
Residential	2,7	3,2	3,6	2,8	2,9	3,1
Services	1,2	1,4	1,6	1,6	1,8	1,8
Agriculture and Fishing	0,4	0,4	0,3	0,2	0,2	0,2
Others	0,0	0,0	0,0	0,0	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	4,7	6,1	8,1	9,7	11,1	11,2
Combustible Fuels	4,1	5,1	6,5	6,7	6,4	6,3
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Hydro	0,5	0,5	0,2	0,5	0,5	0,5
Wind	0,1	0,5	1,4	2,5	4,1	4,3
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
Tide, Wave and Ocean	0,0	0,0	0,0	0,0	0,0	0,0
Gross Electricity Generation, by Fuel [TWh]	24,0	26,0	28,4	28,4	31,0	32,3
Solid fossil fuels, peat and products, oil shale	8,6	8,8	5,7	7,4	2,4	1,6
Oil and petroleum products	4,6	3,3	0,6	0,4	0,3	0,4
Natural gas	9,3	11,6	18,1	12,4	15,9	16,2
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	1,5	2,2	3,9	8,1	12,0	13,8
Wastes non-RES	0,0	0,0	0,0	0,1	0,3	0,3
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0,3	0,3	0,3	0,3
CHP Electricity Generation [TWh]			1,9	2,1	2,1	2,1
CHP in Total Electricity Generation [%]			6,7	7,5	6,7	6,5
CHP Heat Production [PJ]			12,0	12,6	11,2	11,1
Transport Fuels [ktoe]						
Final consumption petroleum products	4839	5642	4893	4544	4826	4195
of which LPG	153	166	148	153	180	174
of which motor gasoline	1590	1823	1527	1020	781	578
of which Gas/Diesel oil	3096	3653	3218	3371	3865	3443
Final consumption biofuels	0	1	93	122	188	175
pure and blended biodiesel	0	0	30	24	26	19
pure and blended biodiesel	0	1	62	98	162	155
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	13,7	14,9	14,7	14,0	14,7	13,4
Final energy consumption 2020-2030 [Mtoe]	10,8	12,6	11,9	11,3	12,4	11,2
Primary Energy Intensity 2020-2030 [toe/M€15]	96	81	78	53	44	38
Energy Intensity (GAE/GDP2015) [toe/M€15]	101	84	80	54	45	39
Energy per Capita (GIC/pop) [kgoe/capita]	3804	3762	3311	3045	3054	2763
Final Electricity per Capita [KWh/capita]	6347	6316	6232	6069	6313	6504
Import Dependency [%]	86,4%	90,3%	88,3%	89,8%	69,4%	72,1%
of Solid fossil fuels	93,3%	100,8%	77,7%	103,0%	68,2%	60,3%
of Hard Coal	93,1%	100,8%	77,5%	103,0%	67,4%	59,2%
of Oil and petroleum products	100,6%	101,2%	99,2%	107,0%	100,7%	105,8%
of Crude and NGL	89,8%	98,9%	101,6%	108,2%	100,9%	102,3%
of Natural Gas	72,1%	86,1%	95,3%	96,3%	53,0%	63,7%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		2.82%	5.78%	9.08%	11.98%	16.16%
RE-T - Renewable energy in Transport [%]		0.08%	2.49%	5.94%	8.92%	10.19%
RES-E - Renewable Electricity Generation [%]		7.20%	15.64%	25.73%	36.46%	39.05%
RES-H&C - Renewable Heating and Cooling [%]		3.44%	4.32%	6.18%	6.34%	6.26%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	47,1	50,6	44,1	41,2	40,6	36,3
GHG emissions - National total*	70,3	72,8	64,3	63,0	63,2	58,9
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	126,7%	131,2%	115,9%	113,6%	113,9%	106,2%
Total GHG per capita [t CO ₂ eq/capita]	18,6	17,7	14,1	13,5	12,9	11,9

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

5.9 Greece

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	10,0	10,4	9,5	8,5	6,4	5,0
Solid fossil fuels	8,2	8,5	7,3	5,7	3,1	1,6
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	8,2	8,5	7,3	5,7	3,1	1,6
Oil and petroleum products	0,3	0,1	0,1	0,1	0,2	0,1
of which crude oil	0,3	0,1	0,1	0,1	0,2	0,1
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	1,5	1,7	2,0	2,7	3,1	3,2
Wastes, Non-Renewable	0,1	0,0	0,0	0,1	0,0	0,0
Net Imports	21,8	23,1	21,3	18,4	19,3	18,0
Solid fossil fuels	0,8	0,4	0,4	0,2	0,2	0,2
of which hard coal	0,8	0,4	0,4	0,2	0,2	0,2
Oil and petroleum products	19,3	20,1	17,0	14,6	13,7	11,9
of which crude oil and NGL	19,2	17,6	19,1	21,8	22,4	22,5
Natural gas	1,7	2,3	3,2	2,7	4,4	5,0
Renewables and biofuels	0,0	0,0	0,2	0,1	0,1	0,1
Electricity	0,0	0,3	0,5	0,8	0,9	0,8
Gross inland consumption	27,9	31,1	28,3	24,1	23,6	20,4
Solid fossil fuels	9,0	9,0	7,9	5,6	3,2	1,8
of which hard coal	0,7	0,3	0,4	0,2	0,2	0,2
of which brown coal	8,3	8,6	7,5	5,4	3,0	1,7
Oil and petroleum products	15,6	17,7	14,5	12,0	11,8	9,6
of which crude oil and NGL	19,3	18,5	19,2	21,5	22,8	22,1
Natural gas	1,7	2,4	3,2	2,7	4,5	4,9
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	1,5	1,7	2,2	2,8	3,2	3,3
Electricity	0,0	0,3	0,5	0,8	0,9	0,8
Waste, non-renewable	0,1	0,0	0,0	0,1	0,0	0,0
Available for final consumption	18,5	20,8	19,2	16,5	16,4	14,6
Final non-energy consumption	0,7	0,8	1,1	0,7	0,9	0,8
Final energy consumption	17,9	20,2	18,4	15,7	15,4	14,5
by Fuel/Product						
Solid fossil fuels	0,9	0,4	0,3	0,2	0,2	0,2
Oil and petroleum products	11,9	13,6	11,4	8,6	8,2	7,4
Natural gas	0,3	0,6	0,8	1,0	0,9	1,1
Renewables and biofuels	1,1	1,1	1,2	1,5	1,7	1,7
Solid biofuels and renewable waste	0,9	1,0	0,9	1,1	0,8	0,8
Solar thermal	0,2	0,2	0,2	0,3	0,3	0,3
Geothermal	0,0	0,0	0,0	0,0	0,0	0,0
Liquid biofuels	0,0	0,0	0,1	0,2	0,2	0,2
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,0	0,0	0,1	0,0	0,0
Electricity	3,7	4,4	4,6	4,4	4,3	4,1
Heat	0,0	0,0	0,0	0,0	0,1	0,1
by Sector						
Industry	4,5	4,2	3,5	3,1	2,6	2,5
Transport	6,5	7,4	7,5	5,8	6,0	5,1
Residential	4,6	5,6	4,7	4,5	4,1	4,3
Services	1,3	2,0	2,0	1,9	2,1	1,9
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	0,3

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	10,9	13,3	15,3	18,9	20,5	20,8
Combustible Fuels	7,6	9,7	10,6	10,9	10,6	10,0
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Hydro	3,1	3,1	3,2	3,4	3,4	3,4
Wind	0,2	0,5	1,3	2,1	3,6	4,1
Solar	0,0	0,0	0,2	2,6	2,8	3,3
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]	53,8	60,0	57,4	51,9	48,6	48,3
Solid fossil fuels, peat and products, oil shale	34,3	35,5	30,8	22,1	12,1	6,6
Oil and petroleum products	8,9	9,2	6,1	5,7	5,6	4,7
Natural gas	5,9	8,2	9,8	9,1	14,5	19,2
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	4,6	7,0	10,6	14,9	16,1	17,7
Wastes non-RES	0,2	0,1	0,1	0,1	0,3	0,0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0,6	0,6	0,4	0,4
CHP Electricity Generation [TWh]			2,5	2,0	2,2	2,3
CHP in Total Electricity Generation [%]			4,3	3,9	4,5	4,2
CHP Heat Production [PJ]			12,7	10,9	15,3	16,8
Transport Fuels [ktoe]						
Final consumption petroleum products	10038	11762	9882	7138	6929	6350
of which LPG	456	403	320	531	596	514
of which motor gasoline	3471	4146	3894	2586	2357	1895
of which Gas/Diesel oil	6111	7213	5668	4021	3976	3941
Final consumption biofuels	0	0	125	158	193	205
pure and blended biogasoline	0	0	0	0	25	63
pure and blended biodiesel	0	0	125	158	168	142
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	27,2	30,3	27,2	23,4	22,3	19,2
Final energy consumption 2020-2030 [Mtoe]	18,7	21,0	19,1	16,6	16,2	14,5
Primary Energy Intensity 2020-2030 [toe/M€15]	150	138	126	133	121	115
Energy Intensity (GAE/GDP2015) [toe/M€15]	154	141	131	137	128	122
Energy per Capita (GIC/pop) [kgoe/capita]	2589	2831	2549	2218	2196	1908
Final Electricity per Capita [KWh/capita]	4997	5471	5163	4778	4534	4502
Import Dependency [%]	78,0%	74,5%	75,1%	76,3%	82,0%	87,9%
of Solid fossil fuels	8,5%	4,1%	5,1%	2,8%	6,4%	10,2%
of Hard Coal	105,8%	112,4%	100,5%	91,5%	105,0%	114,6%
of Oil and petroleum products	123,4%	113,6%	117,1%	121,1%	116,1%	124,5%
of Crude and NGL	99,6%	95,2%	99,6%	101,5%	98,1%	102,0%
of Natural Gas	99,1%	99,1%	99,9%	99,9%	99,0%	100,7%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		7.28%	10.08%	15.69%	19.63%	21.75%
RE-T - Renewable energy in Transport [%]		0.06%	1.92%	1.10%	4.05%	5.34%
RES-E - Renewable Electricity Generation [%]		8.21%	12.31%	22.09%	31.30%	35.86%
RES-H&C - Renewable Heating and Cooling [%]		13.38%	18.66%	26.56%	30.05%	31.94%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	105,5	116,5	99,9	77,8	69,7	56,9
GHG emissions - National total*	129,1	139,0	121,1	98,3	89,6	76,2
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	121,8%	131,2%	114,3%	92,8%	84,6%	71,9%
Total GHG per capita [t CO ₂ eq/capita]	12,0	12,7	10,9	9,1	8,4	7,1

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

5.10 Spain

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	31,3	30,0	34,5	34,1	34,7	35,4
Solid fossil fuels	8,0	6,3	3,3	1,2	0,0	0,0
of which hard coal	5,4	4,1	2,5	0,8	0,0	0,0
of which brown coal	2,6	2,1	0,8	0,4	0,0	0,0
Oil and petroleum products	0,2	0,2	0,1	0,2	0,0	0,0
of which crude oil	0,2	0,2	0,1	0,2	0,0	0,0
Natural gas	0,1	0,1	0,0	0,1	0,1	0,0
Nuclear	16,0	14,8	16,1	14,9	15,2	15,2
Renewables and biofuels	6,7	8,4	14,6	17,3	18,8	19,6
Wastes, Non-Renewable	0,2	0,2	0,3	0,4	0,5	0,5
Net Imports	99,9	124,2	106,7	94,9	100,6	80,2
Solid fossil fuels	12,8	14,4	6,8	10,2	4,5	1,7
of which hard coal	13,3	14,7	6,9	10,1	4,1	1,2
Oil and petroleum products	71,2	79,7	69,3	61,3	64,5	51,7
of which crude oil and NGL	58,1	60,2	53,0	65,4	67,0	55,4
Natural gas	15,5	30,2	31,0	23,8	31,4	27,2
Renewables and biofuels	0,0	0,0	0,4	-0,4	-0,4	-0,7
Electricity	0,4	-0,1	-0,7	0,0	0,6	0,3
Gross inland consumption	124,0	144,5	130,1	122,9	126,8	111,8
Solid fossil fuels	20,9	20,5	7,3	13,6	5,1	3,1
of which hard coal	18,5	18,6	7,2	12,7	4,5	2,6
of which brown coal	2,8	2,3	0,2	0,7	0,2	0,0
Oil and petroleum products	64,4	70,8	60,9	52,5	56,2	45,7
of which crude oil and NGL	57,7	60,1	53,4	65,7	66,3	55,7
Natural gas	15,2	29,8	31,1	24,5	30,9	27,9
Nuclear	16,0	14,8	16,1	14,9	15,2	15,2
Renewables and biofuels	6,8	8,4	15,0	17,0	18,4	19,1
Electricity	0,4	-0,1	-0,7	0,0	0,6	0,3
Waste, non-renewable	0,2	0,2	0,3	0,4	0,5	0,5
Available for final consumption	85,4	101,8	91,4	79,0	86,3	77,7
Final non-energy consumption	9,5	8,4	7,1	4,3	5,4	5,8
Final energy consumption	76,3	93,7	85,5	75,9	81,5	72,3
by Fuel/Product						
Solid fossil fuels	0,8	0,8	0,5	0,4	0,4	0,3
Oil and petroleum products	43,7	50,5	43,9	36,7	39,5	32,6
Natural gas	11,8	17,7	14,3	12,9	14,5	13,8
Renewables and biofuels	3,5	3,8	5,4	5,7	6,7	6,5
Solid biofuels and renewable waste	3,3	3,4	3,7	4,0	3,8	3,7
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	1,5	1,0	1,7	1,4
Biogases	0,0	0,0	0,1	0,1	0,1	0,1
Waste, non-renewable	0,0	0,0	0,1	0,2	0,2	0,2
Electricity	16,2	20,8	21,0	20,0	20,2	18,9
Heat	0,0	0,0	0,0	0,0	0,0	0,0
by Sector						
Industry	24,5	29,9	20,8	18,7	20,6	18,8
Transport	30,5	37,0	34,2	29,4	33,0	26,2
Residential	12,1	15,2	17,0	15,3	14,4	14,6
Services	6,7	8,3	9,8	9,5	10,3	9,5
Agriculture and Fishing	2,6	3,1	2,2	2,7	2,9	3,0
Others	0,0	0,2	1,5	0,4	0,3	0,3

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	53,9	76,6	101,7	106,8	109,7	108,4
Combustible Fuels	26,2	40,8	50,4	49,3	45,6	41,7
Nuclear	7,5	7,6	7,5	7,4	7,1	7,1
Hydro	18,0	18,2	18,5	20,1	20,1	20,1
Wind	2,2	9,9	20,7	22,9	25,6	26,8
Solar	0,0	0,1	4,6	7,0	11,1	12,6
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]	224,5	289,1	301,4	280,7	273,1	263,2
Solid fossil fuels, peat and products, oil shale	79,1	79,1	25,3	51,4	12,9	5,5
Oil and petroleum products	22,6	24,4	16,6	17,2	12,9	10,7
Natural gas	21,9	80,7	95,8	53,8	84,8	70,4
Nuclear	62,2	57,5	62,0	57,2	58,3	58,3
Renewables and biofuels	38,0	46,9	101,0	100,3	103,2	117,3
Wastes non-RES	0,6	0,5	0,7	0,8	1,0	1,0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			3,4	3,5	5,0	5,0
CHP Electricity Generation [TWh]			22,4	22,7	29,7	26,9
CHP in Total Electricity Generation [%]			7,4	8,1	10,9	9,8
CHP Heat Production [PJ]			153,3	120,3	143,2	132,4
Transport Fuels [ktoe]						
Final consumption petroleum products	37 047	44 463	37 676	33 209	34 941	29 967
of which LPG	2 775	2 529	2 063	1 500	1 386	1 216
of which motor gasoline	9 019	7 682	5 620	4 602	5 473	4 348
of which Gas/Diesel oil	25 253	34 252	29 994	27 107	28 081	24 403
Final consumption biofuels	71	261	1 453	1 004	1 672	1 403
pure and blended biogasoline	0	114	232	192	131	87
pure and blended biodiesel	71	147	1 221	812	1 541	1 316
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	114,5	136,0	123,0	118,2	120,6	105,0
Final energy consumption 2020-2030 [Mtoe]	80,0	98,1	89,6	80,5	86,5	73,8
Primary Energy Intensity 2020-2030 [toe/M€15]	131	132	114	110	101	99
Energy Intensity (GAE/GDP2015) [toe/M€15]	142	140	121	114	106	105
Energy per Capita (GIC/pop) [kgoe/capita]	3 065	3 337	2 799	2 646	2 702	2 362
Final Electricity per Capita [KWh/capita]	5 547	6 677	6 483	6 043	5 819	5 561
Import Dependency [%]	80, %	86, %	82, %	77, %	79, %	71, %
of Solid fossil fuels	61, %	70, %	92, %	75, %	89, %	54, %
of Hard Coal	71, %	79, %	95, %	79, %	91, %	46, %
of Oil and petroleum products	110, %	112, %	113, %	116, %	114, %	113, %
of Crude and NGL	100, %	100, %	99, %	99, %	101, %	99, %
of Natural Gas	101, %	101, %	99, %	96, %	101, %	97, %
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		8,4 %	13,8 %	16,2 %	17,8 %	21,2 %
RE-T - Renewable energy in Transport [%]		1,2 %	5,0 %	1,0 %	7,6 %	9,5 %
RES-E - Renewable Electricity Generation [%]		19,1 %	29,7 %	36,9 %	37,1 %	42,9 %
RES-H&C - Renewable Heating and Cooling [%]		9,4 %	12,6 %	16,8 %	17,2 %	17,9 %
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	321,2	381,6	296,9	286,7	270,8	219,8
GHG emissions - National total*	397,7	454,0	370,9	352,1	333,0	281,2
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	134, %	154, %	125, %	119, %	112, %	95, %
Total GHG per capita [t CO ₂ eq/capita]	9,8	10,5	8,0	7,6	7,1	5,9

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

5.11 France

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	129,3	135,9	136,9	140,8	134,1	122,6
Solid fossil fuels	2,1	0,0	0,0	0,0	0,0	0,0
of which hard coal	2,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,1	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	1,9	1,5	1,2	1,0	0,9	0,8
of which crude oil	1,7	1,3	0,9	0,9	0,7	0,7
Natural gas	1,5	0,9	0,6	0,0	0,0	0,0
Nuclear	107,1	116,5	111,6	114,0	104,0	92,2
Renewables and biofuels	15,7	16,0	22,2	24,1	27,4	28,0
Wastes, Non-Renewable	0,9	1,1	1,3	1,7	1,7	1,6
Net Imports	132,7	144,6	132,4	120,2	120,3	99,9
Solid fossil fuels	12,8	13,4	12,1	9,2	7,3	5,1
of which hard coal	12,3	12,7	11,2	8,8	6,8	4,8
Oil and petroleum products	90,0	95,8	83,2	81,8	77,8	65,0
of which crude oil and NGL	85,4	86,0	65,5	59,2	49,5	33,8
Natural gas	35,8	40,7	39,6	34,5	39,2	33,1
Renewables and biofuels	0,0	-0,1	0,2	0,3	1,0	0,7
Electricity	-6,0	-5,2	-2,6	-5,5	-5,0	-3,9
Gross inland consumption	256,1	277,3	269,8	260,0	251,4	223,7
Solid fossil fuels	14,9	14,2	12,0	9,3	7,3	5,3
of which hard coal	14,1	13,6	11,1	9,1	6,9	5,0
of which brown coal	0,1	0,0	0,0	0,1	0,0	0,0
Oil and petroleum products	87,6	93,8	82,7	81,2	77,3	65,0
of which crude oil and NGL	86,8	87,6	66,7	59,9	50,3	34,5
Natural gas	35,8	41,0	42,6	35,0	37,5	34,9
Nuclear	107,1	116,5	111,6	114,0	104,0	92,2
Renewables and biofuels	15,7	15,9	22,3	24,3	28,4	28,6
Electricity	-6,0	-5,2	-2,6	-5,5	-5,0	-3,9
Waste, non-renewable	0,9	1,1	1,3	1,7	1,7	1,6
Available for final consumption	156,7	167,1	161,7	157,3	155,5	141,6
Final non-energy consumption	17,0	16,1	13,9	13,9	13,5	12,6
Final energy consumption	145,1	150,7	146,3	140,9	139,1	128,2
by Fuel/Product						
Solid fossil fuels	2,3	2,0	1,8	1,1	1,0	0,8
Oil and petroleum products	67,5	65,4	58,4	56,8	53,8	47,6
Natural gas	29,8	33,3	32,0	28,7	28,3	26,5
Renewables and biofuels	9,0	9,4	12,9	13,2	14,8	14,0
Solid biofuels and renewable waste	8,4	8,5	9,1	8,1	8,2	7,8
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	3,5	2,9
Biogases	0,1	0,1	0,1	0,1	0,2	0,2
Waste, non-renewable	0,2	0,1	0,1	0,4	0,5	0,4
Electricity	33,1	36,4	38,2	37,4	37,1	35,4
Heat	3,2	4,2	2,8	3,3	3,7	3,6
by Sector						
Industry	32,2	32,5	27,7	27,9	27,5	25,8
Transport	45,2	44,4	43,6	45,5	45,1	38,2
Residential	40,6	43,0	45,4	39,9	39,6	38,7
Services	18,7	21,0	24,1	22,3	21,9	20,3
Agriculture and Fishing	4,3	4,6	4,4	4,5	4,4	4,5
Others	4,1	5,3	1,0	0,7	0,6	0,6

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	114,5	115,7	124,1	132,2	136,3	136,6
Combustible Fuels	25,9	26,4	28,4	25,9	19,8	19,8
Nuclear	63,2	63,3	63,1	63,1	63,1	61,4
Hydro	25,2	25,1	25,4	25,6	25,9	25,7
Wind	0,0	0,7	5,9	10,3	16,5	17,5
Solar	0,0	0,0	1,0	7,1	10,8	12,0
Geothermal	0,0	0,0	0,0	0,0	0,0	0,0
Tide, Wave and Ocean	0,2	0,2	0,2	0,2	0,2	0,2
Gross Electricity Generation, by Fuel [TWh]	540,0	576,1	569,2	578,9	570,4	531,2
Solid fossil fuels, peat and products, oil shale	27,0	27,5	23,4	11,9	3,6	3,1
Oil and petroleum products	7,2	7,9	5,5	6,7	5,9	5,6
Natural gas	15,4	26,3	26,7	23,8	41,5	37,2
Nuclear	415,2	451,5	428,5	437,4	399,0	353,8
Renewables and biofuels	74,2	61,2	83,0	96,8	117,8	129,2
Wastes non-RES	1,1	1,7	2,0	2,3	2,4	2,3
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			4,6	5,6	6,6	6,5
CHP Electricity Generation [TWh]			15,7	13,9	18,1	17,5
CHP in Total Electricity Generation [%]			2,8	2,5	3,2	3,2
CHP Heat Production [PJ]			173,9	154,9	159,9	177,1
Transport Fuels [ktoe]						
Final consumption petroleum products	61 952	61 099	55 093	53 451	50 708	45 050
of which LPG	3 815	2 992	2 645	2 035	1 906	1 782
of which motor gasoline	14 494	11 230	7 744	7 079	8 209	7 049
of which Gas/Diesel oil	43 643	46 877	44 705	44 338	40 593	36 219
Final consumption biofuels	326	585	2 420	3 004	3 481	2 935
pure and blended biodiesel	59	101	399	432	653	555
pure and blended biodiesel	268	484	2 021	2 565	2 805	2 356
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	239,1	261,0	254,6	244,4	235,2	208,4
Final energy consumption 2020-2030 [Mtoe]	154,8	160,1	154,0	148,4	145,4	130,1
Primary Energy Intensity 2020-2030 [toe/M€15]	130	130	122	111	100	96
Energy Intensity (GAE/GDP2015) [toe/M€15]	139	138	129	118	107	103
Energy per Capita (GIC/pop) [kgoe/capita]	4 229	4 417	4 173	3 913	3 742	3 323
Final Electricity per Capita [KWh/capita]	8 918	9 177	8 802	8 710	8 490	7 891
Import Dependency [%]	51,8%	52,2%	49,1%	46,2%	47,9%	44,7%
of Solid fossil fuels	86,3%	94,4%	101,0%	98,4%	99,6%	96,3%
of Hard Coal	87,2%	92,8%	100,6%	97,0%	99,2%	95,8%
of Oil and petroleum products	102,7%	102,1%	100,6%	100,7%	100,6%	100,0%
of Crude and NGL	98,5%	98,2%	98,2%	98,8%	98,4%	97,9%
of Natural Gas	100,0%	99,3%	92,8%	98,5%	104,5%	94,7%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		9,60%	12,67%	14,80%	17,17%	19,11%
RE-T - Renewable energy in Transport [%]		2,13%	6,58%	8,37%	9,25%	9,21%
RES-E - Renewable Electricity Generation [%]		13,74%	14,82%	18,82%	22,39%	24,82%
RES-H&C - Renewable Heating and Cooling [%]		12,37%	16,16%	18,88%	22,36%	23,37%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	428,9	441,2	403,0	359,2	345,8	297,4
GHG emissions - National total*	563,2	567,3	523,7	475,6	453,7	401,1
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	101,9%	102,6%	94,7%	86,0%	82,1%	72,5%
Total GHG per capita [t CO ₂ eq/capita]	9,3	9,0	8,1	7,2	6,8	6,0

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

5.12 Croatia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	4,3	4,8	5,2	4,4	3,9	3,7
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	1,3	1,0	0,8	0,7	0,7	0,7
of which crude oil	1,3	1,0	0,8	0,7	0,7	0,7
Natural gas	1,4	1,9	2,2	1,5	0,9	0,7
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	1,6	1,9	2,2	2,2	2,3	2,3
Wastes, Non-Renewable	0,0	0,0	0,0	0,0	0,0	0,0
Net Imports	4,1	5,2	4,4	4,2	5,0	4,5
Solid fossil fuels	0,5	0,6	0,7	0,6	0,4	0,4
of which hard coal	0,4	0,6	0,6	0,6	0,4	0,4
Oil and petroleum products	2,4	3,6	3,0	2,6	2,5	2,1
of which crude oil and NGL	3,9	4,0	3,6	2,4	1,9	1,4
Natural gas	0,9	0,6	0,5	0,6	1,6	1,7
Renewables and biofuels	0,0	0,0	-0,1	-0,3	-0,1	-0,1
Electricity	0,3	0,4	0,3	0,6	0,5	0,4
Gross inland consumption	8,4	9,8	9,5	8,5	8,8	8,3
Solid fossil fuels	0,4	0,7	0,7	0,6	0,4	0,4
of which hard coal	0,4	0,6	0,6	0,6	0,4	0,3
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	4,0	4,5	3,7	3,2	3,3	2,8
of which crude oil and NGL	5,5	5,1	4,4	3,0	2,7	2,1
Natural gas	2,2	2,4	2,6	2,1	2,4	2,5
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	1,6	1,9	2,1	2,0	2,1	2,2
Electricity	0,3	0,4	0,3	0,6	0,5	0,4
Waste, non-renewable	0,0	0,0	0,0	0,0	0,0	0,0
Available for final consumption	6,6	7,8	7,7	7,0	7,3	7,0
Final non-energy consumption	0,7	0,7	0,6	0,5	0,6	0,5
Final energy consumption	5,9	7,2	7,1	6,5	6,7	6,4
by Fuel/Product						
Solid fossil fuels	0,1	0,1	0,2	0,1	0,1	0,1
Oil and petroleum products	2,6	3,0	2,8	2,6	2,7	2,5
Natural gas	1,0	1,2	1,3	1,0	1,1	1,1
Renewables and biofuels	1,0	1,3	1,3	1,3	1,2	1,2
Solid biofuels and renewable waste	1,0	1,2	1,2	1,2	1,1	1,1
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	0,0	0,0	0,1	0,1
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,0	0,0	0,0	0,0	0,0
Electricity	1,0	1,2	1,4	1,3	1,4	1,3
Heat	0,2	0,3	0,2	0,2	0,2	0,3
by Sector						
Industry	1,3	1,5	1,3	1,1	1,2	1,2
Transport	1,5	1,8	2,0	2,0	2,2	2,0
Residential	2,3	2,8	2,8	2,4	2,2	2,3
Services	0,5	0,7	0,8	0,8	0,8	0,8
Agriculture and Fishing	0,3	0,2	0,3	0,2	0,2	0,3
Others	0,0	0,0	0,0	0,0	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	2,1	3,9	4,1	4,8	4,7	4,7
Combustible Fuels	0,0	1,8	1,9	2,1	1,8	1,5
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Hydro	2,1	2,1	2,1	2,2	2,2	2,2
Wind	0,0	0,0	0,1	0,4	0,6	0,8
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
Tide, Wave and Ocean	0,0	0,0	0,0	0,0	0,0	0,0
Gross Electricity Generation, by Fuel [TWh]	11,3	13,2	14,9	11,4	12,8	13,4
Solid fossil fuels, peat and products, oil shale	1,6	2,3	2,4	2,3	1,6	1,2
Oil and petroleum products	1,7	1,9	0,6	0,2	0,0	0,0
Natural gas	1,6	1,8	2,6	1,2	2,6	3,4
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	6,5	7,2	9,4	7,7	8,5	8,7
Wastes non-RES	0,0	0,0	0,0	0,0	0,0	0,0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0,7	0,6	0,9	0,9
CHP Electricity Generation [TWh]			2,0	0,8	2,3	2,7
CHP in Total Electricity Generation [%]			15,8	7,1	18,3	17,6
CHP Heat Production [PJ]			14,9	10,0	17,6	20,0
Transport Fuels [ktoe]						
Final consumption petroleum products	2 293	2 681	2 629	2 461	2 609	2 359
of which LPG	100	130	183	157	150	129
of which motor gasoline	835	755	692	567	508	423
of which Gas/Diesel oil	1 359	1 796	1 755	1 737	1 951	1 807
Final consumption biofuels	0	0	3	24	63	66
pure and blended biodiesel	0	0	0	0	1	1
pure and blended biodiesel	0	0	3	24	62	65
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	7,8	9,1	8,9	8,0	8,2	7,8
Final energy consumption 2020-2030 [Mtoe]	6,0	7,2	7,2	6,6	6,9	6,5
Primary Energy Intensity 2020-2030 [toe/M€15]	220	206	195	176	159	164
Energy Intensity (GAE/GDP2015) [toe/M€15]	238	222	208	188	171	175
Energy per Capita (GIC/pop) [kgoe/capita]	1 877	2 278	2 201	2 013	2 156	2 047
Final Electricity per Capita [KWh/capita]	2 508	3 053	3 463	2 699	3 130	3 298
Import Dependency [%]	48,6%	52,7%	46,7%	48,8%	56,4%	53,7%
of Solid fossil fuels	110,9%	91,3%	102,5%	103,0%	107,3%	106,0%
of Hard Coal	112,8%	90,6%	102,7%	102,4%	108,6%	106,7%
of Oil and petroleum products	61,3%	79,8%	80,8%	81,5%	76,9%	74,2%
of Crude and NGL	72,1%	78,9%	82,3%	79,6%	71,1%	68,0%
of Natural Gas	41,0%	23,7%	18,1%	27,1%	66,4%	68,8%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		23.69%	25.10%	28.97%	28.47%	31.02%
RE-T - Renewable energy in Transport [%]		1.03%	1.12%	2.36%	5.85%	6.59%
RES-E - Renewable Electricity Generation [%]		35.18%	37.52%	45.41%	49.78%	53.82%
RES-H&C - Renewable Heating and Cooling [%]		30.00%	32.88%	38.62%	36.79%	36.93%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	19,9	23,6	21,3	18,2	18,5	17,0
GHG emissions - National total*	25,7	29,9	28,2	24,7	25,2	23,9
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	80,5%	93,8%	88,4%	77,4%	79,1%	74,9%
Total GHG per capita [t CO ₂ eq/capita]	5,7	6,9	6,6	5,8	6,2	5,9

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

5.13 Italy

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	28,2	30,2	32,9	36,1	36,9	37,7
Solid fossil fuels	0,0	0,1	0,1	0,1	0,0	0,0
of which hard coal	0,0	0,1	0,1	0,1	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	4,7	6,3	5,6	5,8	4,7	5,9
of which crude oil	4,6	6,1	5,1	5,5	4,3	5,4
Natural gas	13,6	9,9	6,9	5,5	3,9	3,3
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	9,6	13,3	19,4	23,6	27,1	27,3
Wastes, Non-Renewable	0,3	0,7	1,0	1,1	1,2	1,2
Net Imports	152,4	159,8	148,5	121,4	122,5	105,8
Solid fossil fuels	13,1	16,4	13,8	12,3	6,4	4,7
of which hard coal	12,9	15,9	13,8	11,9	6,2	4,7
Oil and petroleum products	88,0	78,5	66,8	52,4	52,4	42,0
of which crude oil and NGL	83,6	88,5	78,2	61,7	63,1	50,2
Natural gas	47,0	59,8	61,6	50,0	57,9	54,1
Renewables and biofuels	0,5	0,8	2,5	2,7	2,5	2,2
Electricity	3,8	4,2	3,8	4,0	3,3	2,8
Gross inland consumption	174,5	189,4	176,8	155,7	155,4	141,6
Solid fossil fuels	12,6	16,5	13,7	12,3	6,5	5,1
of which hard coal	12,2	16,0	13,6	11,8	6,3	5,0
of which brown coal	0,0	0,0	0,2	0,2	0,0	0,0
Oil and petroleum products	89,9	83,3	68,4	56,7	54,0	44,9
of which crude oil and NGL	87,9	94,1	82,8	67,0	67,3	55,7
Natural gas	57,9	70,7	68,1	55,3	60,9	58,3
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	10,1	14,1	21,9	26,3	29,5	29,3
Electricity	3,8	4,2	3,8	4,0	3,3	2,8
Waste, non-renewable	0,3	0,7	1,0	1,1	1,2	1,2
Available for final consumption	128,8	139,6	131,7	117,6	118,7	109,3
Final non-energy consumption	8,4	8,6	9,6	6,6	7,0	6,8
Final energy consumption	119,7	131,5	123,1	112,1	113,1	103,1
by Fuel/Product						
Solid fossil fuels	1,5	1,3	0,6	0,5	0,6	0,4
Oil and petroleum products	55,0	56,0	45,6	41,2	38,9	32,2
Natural gas	37,6	40,6	38,5	33,0	33,0	31,8
Renewables and biofuels	1,7	4,5	9,1	8,4	10,9	10,7
Solid biofuels and renewable waste	1,5	4,1	7,4	6,8	6,7	6,5
Solar thermal	0,0	0,0	0,1	0,2	0,2	0,2
Geothermal	0,2	0,2	0,1	0,1	0,1	0,1
Liquid biofuels	0,0	0,2	1,4	1,2	1,3	1,3
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,1	0,1	0,2	0,3	0,3	0,3
Electricity	23,5	25,9	25,7	24,7	25,1	23,7
Heat	0,0	3,1	3,3	3,9	4,2	3,9
by Sector						
Industry	37,6	37,2	29,0	24,9	24,9	23,9
Transport	39,7	41,8	38,6	36,4	35,9	29,0
Residential	27,6	33,9	35,4	32,5	31,1	30,7
Services	11,5	15,1	17,0	15,4	18,2	16,6
Agriculture and Fishing	3,2	3,3	2,9	2,9	2,9	3,0
Others	0,2	0,2	0,2	0,1	0,1	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	75,5	85,5	106,6	117,0	116,4	116,4
Combustible Fuels	54,0	61,9	74,7	65,6	61,3	60,1
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Hydro	20,3	21,0	21,5	22,2	22,5	22,7
Wind	0,4	1,6	5,8	9,1	10,7	10,9
Solar	0,0	0,0	3,6	18,9	20,9	21,7
Geothermal	0,6	0,7	0,7	0,8	0,8	0,8
Tide, Wave and Ocean	0,0	0,0	0,0	0,0	0,0	0,0
Gross Electricity Generation, by Fuel [TWh]	275,9	302,6	301,3	282,4	293,2	280,0
Solid fossil fuels, peat and products, oil shale	26,3	43,6	39,7	43,2	18,8	13,4
Oil and petroleum products	85,9	47,1	21,7	13,4	10,2	10,0
Natural gas	105,6	155,1	157,4	113,0	144,1	135,3
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	57,6	55,3	80,3	110,3	117,7	118,9
Wastes non-RES	0,5	1,5	2,1	2,4	2,4	2,4
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			7,4	9,0	8,6	9,2
CHP Electricity Generation [TWh]			34,7	39,5	40,5	39,9
CHP in Total Electricity Generation [%]			11,5	14,0	13,8	13,9
CHP Heat Production [PJ]			202,5	213,2	216,9	213,4
Transport Fuels [ktoe]						
Final consumption petroleum products	47 568	49 091	41 649	37 803	36 534	30 351
of which LPG	4 286	3 852	3 675	3 572	3 572	3 190
of which motor gasoline	17 652	14 495	10 462	8 217	7 850	6 144
of which Gas/Diesel oil	25 629	30 743	27 512	26 014	25 111	21 017
Final consumption biofuels	0	177	1 419	1 167	1 276	1 265
pure and blended biogasoline	0	0	122	25	30	20
pure and blended biodiesel	0	177	1 297	1 142	1 246	1 245
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	166,1	180,8	167,3	149,1	145,9	132,3
Final energy consumption 2020-2030 [Mtoe]	124,8	137,2	128,5	116,2	115,4	102,7
Primary Energy Intensity 2020-2030 [toe/M€15]	100	104	98	90	84	84
Energy Intensity (GAE/GDP2015) [toe/M€15]	105	109	103	94	90	90
Energy per Capita (GIC/pop) [kgoe/capita]	3 066	3 273	2 988	2 562	2 598	2 374
Final Electricity per Capita [KWh/capita]	4 846	5 228	5 090	4 645	4 902	4 695
Import Dependency [%]	87,3 %	84,3 %	84,0 %	78,0 %	78,8 %	74,7 %
of Solid fossil fuels	104,6 %	99,4 %	100,8 %	100,2 %	98,6 %	93,0 %
of Hard Coal	105,7 %	99,7 %	101,4 %	100,5 %	98,4 %	93,1 %
of Oil and petroleum products	97,9 %	94,3 %	97,6 %	92,4 %	97,1 %	93,5 %
of Crude and NGL	95,1 %	94,0 %	94,5 %	92,2 %	93,9 %	90,2 %
of Natural Gas	81,1 %	84,7 %	90,5 %	90,4 %	95,1 %	92,8 %
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		7.55 %	13.02 %	17.53 %	18.18 %	20.36 %
RE-T - Renewable energy in Transport [%]		1.05 %	4.92 %	6.50 %	9.05 %	10.74 %
RES-E - Renewable Electricity Generation [%]		16.29 %	20.09 %	33.46 %	34.97 %	38.08 %
RES-H&C - Renewable Heating and Cooling [%]		8.22 %	15.64 %	19.25 %	19.70 %	19.95 %
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	478,4	510,7	444,9	370,7	351,6	306,1
GHG emissions - National total*	565,3	599,5	526,7	451,4	430,9	385,1
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	107,8 %	114,4 %	100,5 %	86,1 %	82,2 %	73,5 %
Total GHG per capita [t CO ₂ eq/capita]	9,9	10,4	8,9	7,4	7,2	6,5

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

5.14 Cyprus

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	0,0	0,1	0,1	0,1	0,2	0,2
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,0	0,0	0,0	0,0	0,0	0,0
of which crude oil	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,0	0,0	0,1	0,1	0,2	0,2
Wastes, Non-Renewable	0,0	0,0	0,0	0,0	0,0	0,0
Net Imports	2,6	2,9	3,0	2,5	2,7	2,4
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	2,5	2,8	2,9	2,4	2,6	2,3
of which crude oil and NGL	1,2	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,0	0,0	0,0	0,0	0,0	0,1
Electricity	0,0	0,0	0,0	0,0	0,0	0,0
Gross inland consumption	2,4	2,5	2,8	2,3	2,6	2,3
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	2,3	2,5	2,6	2,1	2,3	2,0
of which crude oil and NGL	1,2	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,0	0,1	0,1	0,2	0,2	0,3
Electricity	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,0	0,0	0,0	0,0	0,0
Available for final consumption	1,5	1,5	1,7	1,4	1,7	1,6
Final non-energy consumption	0,1	0,1	0,1	0,0	0,0	0,0
Final energy consumption	1,4	1,5	1,6	1,4	1,6	1,5
by Fuel/Product						
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	1,0	1,1	1,1	0,9	1,0	0,9
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,0	0,1	0,1	0,1	0,2	0,2
Solid biofuels and renewable waste	0,0	0,0	0,0	0,0	0,1	0,1
Solar thermal	0,0	0,0	0,1	0,1	0,1	0,1
Geothermal	0,0	0,0	0,0	0,0	0,0	0,0
Liquid biofuels	0,0	0,0	0,0	0,0	0,0	0,0
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,0	0,0	0,0	0,0	0,0
Electricity	0,3	0,3	0,4	0,4	0,4	0,4
Heat	0,0	0,0	0,0	0,0	0,0	0,0
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	0,6
Residential	0,2	0,3	0,3	0,3	0,4	0,4
Services	0,1	0,2	0,2	0,2	0,3	0,2
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

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	1,0	1,1	1,6	1,8	1,8	1,9
Combustible Fuels	1,0	1,1	1,5	1,5	1,5	1,5
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Hydro	0,0	0,0	0,0	0,0	0,0	0,0
Wind	0,0	0,0	0,1	0,2	0,2	0,2
Solar	0,0	0,0	0,0	0,1	0,2	0,2
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]	3,4	4,4	5,3	4,5	5,1	4,8
Solid fossil fuels, peat and products, oil shale	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	3,4	4,4	5,2	4,1	4,6	4,3
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,0	0,0	0,1	0,4	0,5	0,6
Wastes non-RES	0,0	0,0	0,0	0,0	0,0	0,0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0,0	0,0	0,0	0,0
CHP Electricity Generation [TWh]			0,1	0,0	0,0	0,0
CHP in Total Electricity Generation [%]			1,0	0,1	0,6	0,8
CHP Heat Production [PJ]			0,1	0,2	0,1	0,2
Transport Fuels [ktoe]						
Final consumption petroleum products	833	897	949	800	881	779
of which LPG	60	60	60	61	69	62
of which motor gasoline	218	321	413	365	356	301
of which Gas/Diesel oil	556	517	476	374	457	416
Final consumption biofuels	0	0	15	10	11	25
pure and blended biogasoline	0	0	0	0	0	1
pure and blended biodiesel	0	0	15	10	11	25
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	2,3	2,5	2,7	2,3	2,5	2,2
Final energy consumption 2020-2030 [Mtoe]	1,6	1,8	1,9	1,7	1,9	1,6
Primary Energy Intensity 2020-2030 [toe/M€15]	167	145	137	127	113	103
Energy Intensity (GAE/GDP2015) [toe/M€15]	173	149	142	129	117	107
Energy per Capita (GIC/pop) [kgoe/capita]	3 511	3 476	3 370	2 715	2 998	2 574
Final Electricity per Capita [KWh/capita]	4 881	5 971	6 497	5 354	5 870	5 461
Import Dependency [%]	106,4%	112,0%	107,4%	107,6%	102,6%	104,3%
of Solid fossil fuels	102,0%	121,1%	65,6%	100,0%	117,2%	105,4%
of Hard Coal	102,0%	121,2%	65,4%	100,0%	117,2%	105,4%
of Oil and petroleum products	108,4%	114,3%	111,5%	114,5%	111,6%	116,0%
of Crude and NGL	98,5%	0,0%	0,0%	0,0%	0,0%	0,0%
of Natural Gas	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		3.13%	6.17%	9.90%	13.78%	16.88%
RE-T - Renewable energy in Transport [%]		0.00%	1.99%	2.52%	3.32%	7.40%
RES-E - Renewable Electricity Generation [%]		0.02%	1.39%	8.45%	9.76%	12.04%
RES-H&C - Renewable Heating and Cooling [%]		9.97%	18.84%	24.07%	35.05%	37.12%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	8,0	8,8	8,9	7,7	8,4	7,6
GHG emissions - National total*	9,1	10,1	10,3	9,1	9,9	9,2
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	144,9%	159,6%	163,5%	144,4%	157,6%	146,0%
Total GHG per capita [t CO ₂ eq/capita]	13,2	13,7	12,6	10,8	11,4	10,4

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

5.15 Latvia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	1,4	1,9	2,0	2,3	2,8	2,7
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,0	0,0	0,0	0,0	0,0	0,0
of which crude oil	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	1,4	1,9	2,0	2,3	2,8	2,7
Wastes, Non-Renewable	0,0	0,0	0,0	0,0	0,0	0,0
Net Imports	2,4	3,1	2,2	2,4	2,2	2,1
Solid fossil fuels	0,1	0,1	0,1	0,0	0,0	0,0
of which hard coal	0,1	0,1	0,1	0,0	0,0	0,0
Oil and petroleum products	1,2	1,8	1,7	1,8	1,8	1,7
of which crude oil and NGL	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	1,1	1,4	0,9	1,1	1,1	0,9
Renewables and biofuels	-0,2	-0,4	-0,6	-0,7	-0,9	-0,8
Electricity	0,2	0,2	0,1	0,2	0,1	0,1
Gross inland consumption	3,9	4,6	4,6	4,4	4,6	4,4
Solid fossil fuels	0,1	0,1	0,1	0,0	0,0	0,0
of which hard coal	0,1	0,1	0,1	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	1,3	1,5	1,5	1,5	1,5	1,4
of which crude oil and NGL	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	1,1	1,4	1,5	1,1	1,1	0,9
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	1,2	1,5	1,4	1,5	1,8	1,8
Electricity	0,2	0,2	0,1	0,2	0,1	0,1
Waste, non-renewable	0,0	0,0	0,0	0,1	0,0	0,1
Available for final consumption	3,3	4,0	4,1	3,8	4,0	3,9
Final non-energy consumption	0,1	0,1	0,1	0,1	0,1	0,1
Final energy consumption	3,2	4,0	4,0	3,7	3,9	3,8
by Fuel/Product						
Solid fossil fuels	0,1	0,1	0,1	0,0	0,0	0,0
Oil and petroleum products	1,0	1,3	1,3	1,3	1,3	1,3
Natural gas	0,3	0,5	0,5	0,3	0,3	0,3
Renewables and biofuels	0,8	1,0	0,9	0,9	1,0	1,0
Solid biofuels and renewable waste	0,8	1,0	0,9	0,9	1,0	0,9
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	0,0	0,0	0,0	0,0
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,0	0,0	0,1	0,0	0,1
Electricity	0,4	0,5	0,5	0,6	0,6	0,6
Heat	0,6	0,6	0,6	0,5	0,6	0,6
by Sector						
Industry	0,6	0,7	0,8	0,8	0,9	0,9
Transport	0,7	1,0	1,1	1,0	1,1	1,0
Residential	1,3	1,5	1,4	1,1	1,2	1,1
Services	0,5	0,6	0,6	0,6	0,6	0,6
Agriculture and Fishing	0,1	0,2	0,2	0,2	0,2	0,2
Others	0,0	0,0	0,0	0,0	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	2,1	2,2	2,6	2,9	2,9	2,9
Combustible Fuels	0,6	0,6	1,0	1,3	1,3	1,3
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Hydro	1,5	1,5	1,6	1,6	1,6	1,6
Wind	0,0	0,0	0,0	0,1	0,1	0,1
Solar	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
Tide, Wave and Ocean	0,0	0,0	0,0	0,0	0,0	0,0
Gross Electricity Generation, by Fuel [TWh]	4,1	4,9	6,6	5,5	6,4	5,7
Solid fossil fuels, peat and products, oil shale	0,1	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,1	0,0	0,0	0,0	0,0	0,0
Natural gas	1,1	1,5	3,0	2,8	3,2	2,1
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	2,8	3,4	3,6	2,8	3,2	3,6
Wastes non-RES	0,0	0,0	0,0	0,0	0,0	0,0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0,9	1,1	1,3	1,3
CHP Electricity Generation [TWh]			3,0	2,5	2,6	2,1
CHP in Total Electricity Generation [%]			45,0	44,7	41,1	36,2
CHP Heat Production [PJ]			10,4	12,4	13,7	12,1
Transport Fuels [ktoe]						
Final consumption petroleum products	889	1202	1278	1265	1331	1280
of which LPG	50	61	50	98	82	77
of which motor gasoline	354	361	302	213	182	175
of which Gas/Diesel oil	485	779	926	954	1067	1028
Final consumption biofuels	0	3	27	25	37	49
pure and blended biogasoline	0	0	8	8	7	13
pure and blended biodiesel	0	3	19	17	30	36
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	3,8	4,5	4,6	4,3	4,6	4,3
Final energy consumption 2020-2030 [Mtoe]	3,3	4,0	4,1	3,8	4,1	3,9
Primary Energy Intensity 2020-2030 [toe/M€15]	264	211	220	174	165	160
Energy Intensity (GAE/GDP2015) [toe/M€15]	269	216	223	178	168	164
Energy per Capita (GIC/pop) [kgoe/capita]	1623	2040	2183	2205	2421	2286
Final Electricity per Capita [KWh/capita]	1737	2181	3125	2786	3353	3001
Import Dependency [%]	61,1%	67,5%	48,0%	54,2%	46,7%	47,6%
of Solid fossil fuels	84,1%	97,7%	106,5%	85,2%	110,8%	89,6%
of Hard Coal	82,5%	96,7%	106,6%	85,2%	110,8%	89,6%
of Oil and petroleum products	95,5%	120,1%	110,0%	120,6%	119,2%	120,9%
of Crude and NGL	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
of Natural Gas	101,9%	105,6%	61,8%	98,6%	100,0%	100,1%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		32.26%	30.38%	37.54%	40.93%	42.13%
RE-T - Renewable energy in Transport [%]		2.39%	3.98%	3.64%	4.55%	6.73%
RES-E - Renewable Electricity Generation [%]		43.02%	42.05%	52.21%	53.42%	53.36%
RES-H&C - Renewable Heating and Cooling [%]		42.68%	40.75%	51.74%	57.75%	57.09%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	7,2	8,0	8,9	7,6	8,1	7,2
GHG emissions - National total*	10,2	11,1	12,2	11,1	11,6	10,6
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	38,9%	42,6%	46,6%	42,3%	44,4%	40,7%
Total GHG per capita [t CO ₂ eq/capita]	4,3	4,9	5,7	5,6	6,0	5,6

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

5.16 Lithuania

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	3,5	4,1	1,6	1,9	2,0	2,0
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,3	0,2	0,1	0,1	0,0	0,0
of which crude oil	0,3	0,2	0,1	0,1	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Nuclear	2,3	2,8	0,0	0,0	0,0	0,0
Renewables and biofuels	0,7	0,9	1,2	1,5	1,7	1,7
Wastes, Non-Renewable	0,0	0,0	0,0	0,0	0,0	0,1
Net Imports	4,3	5,0	5,7	5,5	6,0	5,9
Solid fossil fuels	0,1	0,2	0,2	0,1	0,2	0,1
of which hard coal	0,0	0,0	0,1	0,1	0,2	0,1
Oil and petroleum products	2,3	2,6	2,7	2,7	3,2	3,1
of which crude oil and NGL	4,6	8,9	9,1	8,7	9,6	7,9
Natural gas	2,1	2,5	2,5	2,1	1,9	2,0
Renewables and biofuels	0,0	0,0	-0,1	-0,1	-0,1	-0,1
Electricity	-0,1	-0,3	0,5	0,6	0,8	0,7
Gross inland consumption	7,3	9,0	7,1	7,2	7,8	7,6
Solid fossil fuels	0,1	0,2	0,2	0,2	0,2	0,1
of which hard coal	0,0	0,0	0,1	0,2	0,2	0,1
of which brown coal	0,1	0,2	0,1	0,0	0,0	0,0
Oil and petroleum products	2,2	2,7	2,6	2,6	3,0	2,9
of which crude oil and NGL	4,9	9,4	9,2	8,7	9,6	7,9
Natural gas	2,1	2,5	2,5	2,1	1,9	2,0
Nuclear	2,3	2,8	0,0	0,0	0,0	0,0
Renewables and biofuels	0,7	0,9	1,1	1,4	1,6	1,7
Electricity	-0,1	-0,3	0,5	0,6	0,8	0,7
Waste, non-renewable	0,0	0,0	0,0	0,0	0,0	0,1
Available for final consumption	4,3	5,3	5,4	5,9	6,6	6,4
Final non-energy consumption	0,7	0,7	0,7	1,1	1,2	1,1
Final energy consumption	3,7	4,6	4,8	4,8	5,5	5,3
by Fuel/Product						
Solid fossil fuels	0,1	0,2	0,2	0,2	0,2	0,1
Oil and petroleum products	1,3	1,6	1,6	1,8	2,2	2,1
Natural gas	0,4	0,6	0,6	0,5	0,6	0,6
Renewables and biofuels	0,6	0,7	0,7	0,7	0,7	0,8
Solid biofuels and renewable waste	0,6	0,7	0,7	0,6	0,6	0,6
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	0,0	0,1	0,1	0,1
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,0	0,0	0,0	0,0	0,0
Electricity	0,5	0,7	0,7	0,8	0,9	0,9
Heat	0,8	0,9	0,9	0,8	0,8	0,7
by Sector						
Industry	0,8	1,1	0,9	1,0	1,1	1,0
Transport	1,0	1,4	1,5	1,8	2,2	2,1
Residential	1,4	1,5	1,6	1,4	1,4	1,4
Services	0,5	0,6	0,6	0,6	0,6	0,6
Agriculture and Fishing	0,1	0,1	0,1	0,1	0,1	0,1
Others	0,0	0,0	0,0	0,0	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	5,7	4,6	3,6	3,6	3,4	3,5
Combustible Fuels	2,5	2,5	2,5	2,2	1,8	1,9
Nuclear	2,4	1,2	0,0	0,0	0,0	0,0
Hydro	0,9	0,9	0,9	0,9	0,9	0,9
Wind	0,0	0,0	0,1	0,4	0,5	0,5
Solar	0,0	0,0	0,0	0,1	0,1	0,2
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]	11,3	14,6	5,5	4,7	3,7	5,3
Solid fossil fuels, peat and products, oil shale	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,7	0,4	0,6	0,3	0,1	0,1
Natural gas	1,6	3,0	3,2	2,0	0,5	1,7
Nuclear	8,4	10,3	0,0	0,0	0,0	0,0
Renewables and biofuels	0,6	0,8	1,7	2,4	3,1	3,4
Wastes non-RES	0,0	0,0	0,0	0,1	0,1	0,1
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			1,1	1,0	0,6	0,6
CHP Electricity Generation [TWh]			2,0	1,5	1,1	1,2
CHP in Total Electricity Generation [%]			34,6	31,3	27,4	23,6
CHP Heat Production [PJ]			19,3	12,4	11,0	11,7
Transport Fuels [ktoe]						
Final consumption petroleum products	1 185	1 516	1 545	1 764	2 190	2 132
of which LPG	205	301	224	175	158	142
of which motor gasoline	400	355	298	201	244	238
of which Gas/Diesel oil	579	860	1 023	1 388	1 788	1 752
Final consumption biofuels	0	3	45	68	75	103
pure and blended biofuel	0	1	10	10	10	16
pure and blended biodiesel	0	3	34	58	65	87
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	6,5	8,0	6,2	5,8	6,3	6,2
Final energy consumption 2020-2030 [Mtoe]	3,8	4,7	4,8	4,9	5,6	5,3
Primary Energy Intensity 2020-2030 [toe/M€15]	323	275	199	155	145	144
Energy Intensity (GAE/GDP2015) [toe/M€15]	363	307	228	192	180	176
Energy per Capita (GIC/pop) [kgoe/capita]	2 093	2 677	2 254	2 459	2 792	2 732
Final Electricity per Capita [KWh/capita]	3 227	4 347	1 750	1 598	1 342	1 901
Import Dependency [%]	58,5 %	56,2 %	80,6 %	76,2 %	77,1 %	76,7 %
of Solid fossil fuels	101,7 %	101,0 %	95,7 %	90,6 %	108,1 %	87,9 %
of Hard Coal	100,0 %	100,0 %	109,7 %	90,1 %	109,1 %	86,7 %
of Oil and petroleum products	105,2 %	98,4 %	104,0 %	103,6 %	107,3 %	109,2 %
of Crude and NGL	94,5 %	95,3 %	99,0 %	99,5 %	100,8 %	99,4 %
of Natural Gas	100,0 %	100,7 %	99,7 %	99,7 %	100,0 %	98,9 %
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		16,77 %	19,64 %	25,75 %	25,47 %	26,77 %
RE-T - Renewable energy in Transport [%]		0,66 %	3,79 %	4,58 %	4,05 %	5,51 %
RES-E - Renewable Electricity Generation [%]		3,83 %	7,40 %	15,54 %	18,79 %	20,17 %
RES-H&C - Renewable Heating and Cooling [%]		29,32 %	32,54 %	46,08 %	47,37 %	50,35 %
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	11,9	14,3	14,1	13,6	14,3	13,8
GHG emissions - National total*	19,5	22,9	20,9	20,6	20,7	20,3
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	40,4 %	47,4 %	43,3 %	42,6 %	43,0 %	42,2 %
Total GHG per capita [t CO ₂ eq/capita]	5,6	6,8	6,7	7,0	7,4	7,3

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

5.17 Luxembourg

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	0,1	0,1	0,1	0,2	0,2	0,3
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,0	0,0	0,0	0,0	0,0	0,0
of which crude oil	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,0	0,1	0,1	0,1	0,2	0,3
Wastes, Non-Renewable	0,0	0,0	0,0	0,0	0,0	0,0
Net Imports	3,6	4,7	4,5	4,0	4,3	3,7
Solid fossil fuels	0,1	0,1	0,1	0,0	0,0	0,0
of which hard coal	0,1	0,1	0,1	0,0	0,0	0,0
Oil and petroleum products	2,4	3,1	2,9	2,6	3,0	2,4
of which crude oil and NGL	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,7	1,2	1,2	0,8	0,7	0,6
Renewables and biofuels	0,0	0,0	0,0	0,1	0,1	0,1
Electricity	0,5	0,3	0,3	0,5	0,5	0,5
Gross inland consumption	3,7	4,8	4,6	4,2	4,5	4,0
Solid fossil fuels	0,1	0,1	0,1	0,0	0,0	0,0
of which hard coal	0,1	0,1	0,1	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	2,3	3,2	2,9	2,6	2,9	2,4
of which crude oil and NGL	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,7	1,2	1,2	0,8	0,7	0,6
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,0	0,1	0,1	0,2	0,3	0,4
Electricity	0,5	0,3	0,3	0,5	0,5	0,5
Waste, non-renewable	0,0	0,0	0,0	0,0	0,0	0,0
Available for final consumption	3,2	4,1	3,9	3,6	3,8	3,3
Final non-energy consumption	0,1	0,0	0,0	0,0	0,0	0,0
Final energy consumption	3,2	4,0	3,9	3,5	3,8	3,3
by Fuel/Product						
Solid fossil fuels	0,1	0,1	0,1	0,0	0,0	0,0
Oil and petroleum products	1,9	2,7	2,4	2,1	2,3	1,8
Natural gas	0,6	0,6	0,7	0,6	0,6	0,6
Renewables and biofuels	0,0	0,0	0,1	0,1	0,2	0,2
Solid biofuels and renewable waste	0,0	0,0	0,0	0,0	0,0	0,0
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	0,0	0,1	0,1	0,1
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,0	0,0	0,0	0,0	0,0
Electricity	0,5	0,5	0,6	0,5	0,6	0,5
Heat	0,0	0,1	0,1	0,1	0,1	0,1
by Sector						
Industry	0,7	0,8	0,8	0,6	0,6	0,6
Transport	1,6	2,3	2,2	2,0	2,2	1,7
Residential	0,5	0,5	0,5	0,5	0,5	0,5
Services	0,4	0,4	0,4	0,4	0,5	0,5
Agriculture and Fishing	0,0	0,0	0,0	0,0	0,0	0,0
Others	0,0	0,0	0,0	0,0	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	1,2	1,7	1,7	2,0	1,8	1,8
Combustible Fuels	0,1	0,5	0,5	0,5	0,1	0,1
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Hydro	1,1	1,1	1,1	1,3	1,3	1,3
Wind	0,0	0,0	0,0	0,1	0,1	0,2
Solar	0,0	0,0	0,0	0,1	0,2	0,2
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]	1,2	4,1	4,6	2,8	1,9	2,2
Solid fossil fuels, peat and products, oil shale	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,2	3,1	2,9	0,8	0,2	0,2
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,9	1,0	1,6	1,9	1,6	2,0
Wastes non-RES	0,0	0,0	0,0	0,1	0,1	0,1
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0,1	0,1	0,1	0,1
CHP Electricity Generation [TWh]			0,4	0,4	0,4	0,5
CHP in Total Electricity Generation [%]			9,6	12,7	22,1	22,7
CHP Heat Production [PJ]			3,2	2,4	3,8	4,8
Transport Fuels [ktoe]						
Final consumption petroleum products	1932	2672	2405	2144	2306	1814
of which LPG	26	13	13	11	10	8
of which motor gasoline	598	515	362	293	343	262
of which Gas/Diesel oil	1307	2144	2031	1841	1953	1544
Final consumption biofuels	0	1	42	83	130	142
pure and blended biogasoline	0	0	1	7	17	14
pure and blended biodiesel	0	0	41	76	113	129
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	3,6	4,8	4,6	4,1	4,5	3,9
Final energy consumption 2020-2030 [Mtoe]	3,5	4,5	4,3	4,0	4,4	3,8
Primary Energy Intensity 2020-2030 [toe/M€15]	99	112	95	77	74	66
Energy Intensity (GAE/GDP2015) [toe/M€15]	100	113	95	77	75	67
Energy per Capita (GIC/pop) [kgoe/capita]	8433	10411	9250	7421	7402	6331
Final Electricity per Capita [KWh/capita]	2690	8952	9145	4913	3109	3568
Import Dependency [%]	99,6%	97,4%	97,1%	96,0%	95,0%	92,5%
of Solid fossil fuels	100,0%	100,0%	102,2%	99,8%	93,1%	112,3%
of Hard Coal	100,0%	100,0%	102,5%	99,8%	92,3%	114,0%
of Oil and petroleum products	102,1%	99,4%	99,3%	99,3%	100,4%	100,0%
of Crude and NGL	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
of Natural Gas	100,0%	100,0%	100,0%	100,0%	100,0%	100,0%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		1.40%	2.85%	6.86%	8.69%	12.61%
RE-T - Renewable energy in Transport [%]		0.16%	2.09%	6.70%	7.71%	12.58%
RES-E - Renewable Electricity Generation [%]		3.18%	3.79%	6.20%	10.86%	13.89%
RES-H&C - Renewable Heating and Cooling [%]		3.61%	4.70%	6.86%	8.69%	12.61%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	9,7	13,4	12,5	10,7	11,5	9,7
GHG emissions - National total*	10,6	14,3	13,5	11,7	12,5	10,7
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	81,0%	109,0%	102,6%	89,1%	95,5%	81,6%
Total GHG per capita [t CO ₂ eq/capita]	24,5	31,0	26,8	20,8	20,4	17,1

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

5.18 Hungary

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	11,6	10,9	11,7	11,1	10,8	10,6
Solid fossil fuels	2,9	1,7	1,6	1,5	1,0	0,9
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	2,9	1,7	1,6	1,5	1,0	0,9
Oil and petroleum products	1,7	1,4	1,1	0,9	1,2	1,0
of which crude oil	1,7	1,4	1,1	0,9	1,1	1,0
Natural gas	2,5	2,3	2,2	1,4	1,3	1,3
Nuclear	3,7	3,6	4,0	4,0	4,1	4,1
Renewables and biofuels	0,8	1,7	2,7	3,2	3,1	3,1
Wastes, Non-Renewable	0,0	0,1	0,1	0,1	0,1	0,1
Net Imports	13,9	17,7	15,1	13,6	18,6	14,8
Solid fossil fuels	1,1	1,3	1,1	0,8	0,8	0,7
of which hard coal	0,9	1,0	1,3	1,0	1,0	0,9
Oil and petroleum products	5,2	6,1	5,8	6,6	7,1	6,5
of which crude oil and NGL	5,8	6,2	5,8	6,2	5,9	5,9
Natural gas	7,3	9,8	7,7	5,2	9,8	6,6
Renewables and biofuels	0,0	0,0	0,0	-0,2	-0,2	-0,1
Electricity	0,3	0,5	0,4	1,2	1,1	1,0
Gross inland consumption	25,2	28,5	26,6	25,2	26,7	26,2
Solid fossil fuels	3,8	3,1	2,7	2,4	1,8	1,7
of which hard coal	0,9	0,9	1,3	1,0	1,0	0,9
of which brown coal	3,0	2,1	1,7	1,6	1,0	1,0
Oil and petroleum products	6,9	7,4	6,8	7,0	8,2	7,5
of which crude oil and NGL	7,4	7,6	6,8	6,8	7,0	6,9
Natural gas	9,7	12,1	9,8	7,5	8,5	8,8
Nuclear	3,7	3,6	4,0	4,0	4,1	4,1
Renewables and biofuels	0,8	1,7	2,8	3,0	2,8	3,0
Electricity	0,3	0,5	0,4	1,2	1,1	1,0
Waste, non-renewable	0,0	0,1	0,1	0,1	0,2	0,2
Available for final consumption	17,2	20,3	18,9	18,5	20,0	19,7
Final non-energy consumption	1,6	2,2	2,0	1,9	2,1	2,2
Final energy consumption	15,6	18,2	16,9	16,8	18,0	17,6
by Fuel/Product						
Solid fossil fuels	0,4	0,5	0,2	0,2	0,2	0,2
Oil and petroleum products	4,0	4,6	4,4	5,0	5,9	5,3
Natural gas	6,4	7,7	6,1	5,3	5,5	5,7
Renewables and biofuels	0,8	1,2	2,0	2,2	1,8	1,9
Solid biofuels and renewable waste	0,7	1,1	1,7	1,9	1,5	1,5
Solar thermal	0,0	0,0	0,0	0,0	0,0	0,0
Geothermal	0,1	0,1	0,1	0,1	0,1	0,1
Liquid biofuels	0,0	0,0	0,2	0,2	0,2	0,3
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,0	0,0	0,1	0,1	0,1
Electricity	2,5	2,8	2,9	3,1	3,5	3,4
Heat	1,4	1,3	1,1	1,0	1,0	1,0
by Sector						
Industry	3,3	3,1	2,6	3,9	4,5	4,4
Transport	3,1	4,0	4,1	4,2	5,1	4,5
Residential	5,6	7,0	6,6	6,0	5,7	6,0
Services	3,0	3,5	3,0	2,2	2,1	2,0
Agriculture and Fishing	0,7	0,6	0,5	0,6	0,7	0,7
Others	0,0	0,0	0,0	0,0	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	8,3	8,6	9,0	8,6	10,0	10,7
Combustible Fuels	6,4	6,7	6,6	6,1	6,2	6,1
Nuclear	1,9	1,9	2,0	2,0	2,0	2,0
Hydro	0,0	0,0	0,1	0,1	0,1	0,1
Wind	0,0	0,0	0,3	0,3	0,3	0,3
Solar	0,0	0,0	0,0	0,2	1,4	2,1
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]	35,2	35,8	37,4	30,3	34,2	34,8
Solid fossil fuels, peat and products, oil shale	9,6	7,0	6,2	5,8	4,0	3,7
Oil and petroleum products	4,4	0,5	0,5	0,1	0,1	0,0
Natural gas	6,7	12,5	11,7	5,2	8,8	9,2
Nuclear	14,2	13,8	15,8	15,8	16,3	16,1
Renewables and biofuels	0,2	1,9	3,0	3,2	4,7	5,5
Wastes non-RES	0,1	0,1	0,2	0,1	0,2	0,2
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			1,9	1,6	1,5	1,6
CHP Electricity Generation [TWh]			7,3	4,1	4,6	4,7
CHP in Total Electricity Generation [%]			19,6	13,5	13,4	13,0
CHP Heat Production [PJ]			42,2	24,4	27,5	27,6
Transport Fuels [ktoe]						
Final consumption petroleum products	3 699	4 436	4 263	4 639	5 541	4 920
of which LPG	368	282	211	295	256	269
of which motor gasoline	1 414	1 568	1 348	1 283	1 507	1 308
of which Gas/Diesel oil	1 917	2 586	2 703	3 061	3 778	3 342
Final consumption biofuels	0	3	175	175	202	279
pure and blended biofuel	0	3	57	43	46	84
pure and blended biodiesel	0	0	118	133	157	195
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	23,6	26,3	24,6	23,3	24,6	23,9
Final energy consumption 2020-2030 [Mtoe]	16,2	18,7	17,5	17,4	18,6	18,0
Primary Energy Intensity 2020-2030 [toe/M€15]	286	257	241	206	186	189
Energy Intensity (GAE/GDP2015) [toe/M€15]	306	278	261	223	202	207
Energy per Capita (GIC/pop) [kgoe/capita]	2 468	2 823	2 655	2 557	2 733	2 677
Final Electricity per Capita [KWh/capita]	3 443	3 541	3 732	3 074	3 497	3 561
Import Dependency [%]	55,0%	62,3%	56,9%	53,9%	69,7%	56,6%
of Solid fossil fuels	28,1%	42,5%	41,9%	33,7%	45,7%	43,7%
of Hard Coal	96,4%	108,3%	99,2%	99,2%	98,8%	97,0%
of Oil and petroleum products	75,9%	82,0%	85,3%	93,7%	86,6%	87,1%
of Crude and NGL	78,5%	81,8%	85,3%	91,4%	84,6%	86,0%
of Natural Gas	75,4%	81,1%	78,7%	69,7%	115,2%	75,6%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		6.93%	12.74%	14.50%	12.63%	13.85%
RE-T - Renewable energy in Transport [%]		1.01%	6.16%	7.17%	8.06%	11.57%
RES-E - Renewable Electricity Generation [%]		4.42%	7.10%	7.34%	9.97%	11.90%
RES-H&C - Renewable Heating and Cooling [%]		9.94%	18.08%	21.33%	18.16%	17.72%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	59,1	61,1	52,8	47,2	50,1	47,6
GHG emissions - National total*	75,7	77,5	66,7	62,1	65,4	63,1
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	79,4%	81,3%	70,0%	65,1%	68,6%	66,2%
Total GHG per capita [t CO ₂ eq/capita]	7,4	7,7	6,7	6,3	6,7	6,5

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

5.19 Malta

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	0,0	0,0	0,0	0,0	0,0	0,0
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,0	0,0	0,0	0,0	0,0	0,0
of which crude oil	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,0	0,0	0,0	0,0	0,0	0,0
Wastes, Non-Renewable	0,0	0,0	0,0	0,0	0,0	0,0
Net Imports	1,5	1,6	2,4	2,2	3,1	2,9
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	1,5	1,6	2,4	2,1	2,7	2,5
of which crude oil and NGL	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,3	0,3
Renewables and biofuels	0,0	0,0	0,0	0,0	0,0	0,0
Electricity	0,0	0,0	0,0	0,1	0,1	0,0
Gross inland consumption	0,8	0,9	0,9	0,8	0,9	0,8
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,8	0,9	0,9	0,6	0,5	0,4
of which crude oil and NGL	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,3	0,3
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,0	0,0	0,0	0,0	0,0	0,1
Electricity	0,0	0,0	0,0	0,1	0,1	0,0
Waste, non-renewable	0,0	0,0	0,0	0,0	0,0	0,0
Available for final consumption	0,3	0,4	0,4	0,5	0,6	0,5
Final non-energy consumption	0,0	0,0	0,0	0,0	0,0	0,0
Final energy consumption	0,3	0,4	0,4	0,5	0,5	0,5
by Fuel/Product						
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,2	0,2	0,2	0,3	0,3	0,3
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,0	0,0	0,0	0,0	0,0	0,0
Solid biofuels and renewable waste	0,0	0,0	0,0	0,0	0,0	0,0
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	0,0	0,0	0,0	0,0
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,0	0,0	0,0	0,0	0,0
Electricity	0,1	0,2	0,2	0,2	0,2	0,2
Heat	0,0	0,0	0,0	0,0	0,0	0,0
by Sector						
Industry	0,0	0,1	0,0	0,1	0,1	0,1
Transport	0,2	0,2	0,2	0,2	0,2	0,2
Residential	0,1	0,1	0,1	0,1	0,1	0,1
Services	0,0	0,1	0,1	0,1	0,1	0,1
Agriculture and Fishing	0,0	0,0	0,0	0,0	0,0	0,0
Others	0,0	0,0	0,0	0,0	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	0,0	0,0	0,6	0,7	0,7	0,8
Combustible Fuels	0,0	0,0	0,6	0,6	0,6	0,6
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Hydro	0,0	0,0	0,0	0,0	0,0	0,0
Wind	0,0	0,0	0,0	0,0	0,0	0,0
Solar	0,0	0,0	0,0	0,1	0,2	0,2
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]	1,9	2,2	2,1	1,3	2,1	2,1
Solid fossil fuels, peat and products, oil shale	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	1,9	2,2	2,1	1,2	0,0	0,1
Natural gas	0,0	0,0	0,0	0,0	1,8	1,8
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	0,0	0,0	0,0	0,1	0,2	0,2
Wastes non-RES	0,0	0,0	0,0	0,0	0,0	0,0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0,0	0,0	0,1	0,1
CHP Electricity Generation [TWh]			0,0	0,0	0,2	0,2
CHP in Total Electricity Generation [%]			0,0	0,0	8,5	7,2
CHP Heat Production [PJ]			0,0	0,0	0,1	0,1
Transport Fuels [ktoe]						
Final consumption petroleum products	171	194	223	256	294	253
of which LPG	18	20	24	26	29	26
of which motor gasoline	75	68	75	78	85	72
of which Gas/Diesel oil	78	107	124	152	180	156
Final consumption biofuels	0	0	1	7	11	15
pure and blended biogasoline	0	0	0	0	0	0
pure and blended biodiesel	0	0	1	7	11	15
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	0,8	0,9	0,9	0,8	0,9	0,7
Final energy consumption 2020-2030 [Mtoe]	0,4	0,5	0,5	0,6	0,7	0,5
Primary Energy Intensity 2020-2030 [toe/M€15]	134	139	121	75	68	63
Energy Intensity (GAE/GDP2015) [toe/M€15]	134	142	122	76	70	64
Energy per Capita (GIC/pop) [kgoe/capita]	2 080	2 324	2 266	1 724	1 826	1 480
Final Electricity per Capita [KWh/capita]	4 931	5 563	5 105	2 967	4 173	4 165
Import Dependency [%]	181,8%	170,3%	252,0%	294,6%	341,5%	377,7%
of Solid fossil fuels	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
of Hard Coal	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
of Oil and petroleum products	181,8%	170,4%	253,3%	330,7%	548,1%	719,1%
of Crude and NGL	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
of Natural Gas	0,0%	0,0%	0,0%	0,0%	103,6%	96,2%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		0,12%	0,98%	5,12%	8,23%	10,71%
RE-T - Renewable energy in Transport [%]		0,00%	0,00%	4,68%	8,90%	10,59%
RES-E - Renewable Electricity Generation [%]		0,00%	0,03%	4,31%	7,49%	9,49%
RES-H&C - Renewable Heating and Cooling [%]		1,03%	7,28%	14,64%	23,60%	23,03%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	2,8	2,9	2,9	2,0	2,2	1,8
GHG emissions - National total*	3,1	3,2	3,2	2,5	2,7	2,3
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	111,4%	116,1%	115,8%	88,8%	94,7%	83,0%
Total GHG per capita [t CO ₂ eq/capita]	8,0	8,1	7,8	5,6	5,4	4,5

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

5.20 The Netherlands

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	58,5	62,4	71,1	48,1	33,1	27,4
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	2,7	2,5	1,6	2,1	1,1	1,1
of which crude oil	2,4	2,3	1,5	1,8	0,9	0,9
Natural gas	52,8	56,2	64,7	39,4	23,9	17,3
Nuclear	1,0	1,0	0,9	0,9	0,9	1,0
Renewables and biofuels	1,4	2,0	3,1	4,8	6,2	7,1
Wastes, Non-Renewable	0,6	0,7	0,7	0,6	0,7	0,7
Net Imports	35,0	37,5	28,3	43,7	56,3	57,1
Solid fossil fuels	7,7	8,2	7,6	10,7	6,6	3,8
of which hard coal	7,7	8,2	7,5	10,7	6,6	3,9
Oil and petroleum products	42,9	48,4	44,5	43,7	41,9	39,4
of which crude oil and NGL	60,7	61,4	60,4	60,0	63,3	56,9
Natural gas	-17,2	-20,9	-24,2	-10,5	8,3	14,2
Renewables and biofuels	-0,1	0,3	0,1	-1,1	-0,7	-0,2
Electricity	1,6	1,6	0,2	0,8	0,1	-0,2
Gross inland consumption	78,3	83,7	86,2	76,4	76,1	71,9
Solid fossil fuels	7,8	8,1	7,5	11,1	6,4	4,1
of which hard coal	7,8	8,2	7,4	11,1	6,4	4,2
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	30,9	34,7	33,4	30,3	30,1	27,8
of which crude oil and NGL	62,8	63,5	61,9	61,2	63,4	58,0
Natural gas	35,0	35,3	40,1	28,6	32,0	31,4
Nuclear	1,0	1,0	0,9	0,9	0,9	1,0
Renewables and biofuels	1,3	2,3	3,3	3,7	5,4	6,8
Electricity	1,6	1,6	0,2	0,8	0,1	-0,2
Waste, non-renewable	0,6	0,7	0,7	0,8	0,8	0,8
Available for final consumption	58,8	62,1	64,8	55,2	56,4	55,3
Final non-energy consumption	11,3	13,6	14,4	12,2	12,1	12,9
Final energy consumption	47,5	49,0	50,8	43,5	44,3	42,3
by Fuel/Product						
Solid fossil fuels	0,1	0,1	0,1	0,2	0,2	0,2
Oil and petroleum products	14,0	14,9	15,3	13,7	13,9	12,7
Natural gas	20,7	20,0	21,6	16,9	16,5	15,9
Renewables and biofuels	0,5	0,6	1,0	1,3	2,0	2,0
Solid biofuels and renewable waste	0,4	0,5	0,6	0,6	0,7	0,7
Solar thermal	0,0	0,0	0,0	0,0	0,0	0,0
Geothermal	0,0	0,0	0,0	0,1	0,1	0,1
Liquid biofuels	0,0	0,0	0,2	0,3	0,7	0,6
Biogases	0,1	0,1	0,1	0,1	0,1	0,1
Waste, non-renewable	0,0	0,0	0,1	0,0	0,0	0,0
Electricity	8,2	9,0	9,3	8,9	9,4	9,4
Heat	3,7	3,8	3,0	2,3	2,1	1,9
by Sector						
Industry	15,2	15,6	14,4	12,9	13,0	13,1
Transport	10,6	11,4	11,7	10,4	10,9	9,3
Residential	10,8	10,7	12,5	9,5	9,5	9,3
Services	6,2	6,9	7,8	6,7	6,8	6,5
Agriculture and Fishing	4,5	4,2	4,2	3,8	4,1	4,0
Others	0,1	0,1	0,1	0,1	0,1	0,1

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	21,1	21,8	26,7	33,9	37,1	42,2
Combustible Fuels	20,1	20,0	23,7	28,4	24,8	24,1
Nuclear	0,4	0,4	0,5	0,5	0,5	0,5
Hydro	0,0	0,0	0,0	0,0	0,0	0,0
Wind	0,4	1,2	2,2	3,4	4,5	6,6
Solar	0,0	0,1	0,1	1,5	7,2	10,9
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]	89,4	99,7	119,1	108,8	120,8	123,0
Solid fossil fuels, peat and products, oil shale	24,3	23,5	22,6	39,4	17,7	7,6
Oil and petroleum products	2,6	2,3	1,3	1,3	1,4	1,3
Natural gas	54,4	61,0	78,5	48,7	73,1	75,1
Nuclear	3,9	4,0	4,0	4,1	3,9	4,1
Renewables and biofuels	3,0	7,4	11,2	13,7	22,8	33,0
Wastes non-RES	1,2	1,4	1,6	1,6	1,8	1,9
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			9,3	9,2	8,8	9,1
CHP Electricity Generation [TWh]			39,2	29,8	32,2	31,7
CHP in Total Electricity Generation [%]			33,2	27,1	26,6	26,1
CHP Heat Production [PJ]			233,6	189,6	174,2	171,6
Transport Fuels [ktoe]						
Final consumption petroleum products	11 992	12 522	12 449	11 161	11 327	9 870
of which LPG	723	575	487	301	306	262
of which motor gasoline	3 964	4 039	4 048	3 783	4 177	3 483
of which Gas/Diesel oil	7 305	7 908	7 914	7 076	6 843	6 126
Final consumption biofuels	0	10	243	320	719	609
pure and blended biodiesel	0	0	134	142	199	226
pure and blended biodiesel	0	0	95	179	480	355
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	66,9	70,1	71,7	63,9	63,5	58,4
Final energy consumption 2020-2030 [Mtoe]	52,1	54,1	55,3	48,8	49,7	45,5
Primary Energy Intensity 2020-2030 [toe/M€15]	115	113	108	93	84	80
Energy Intensity (GAE/GDP2015) [toe/M€15]	135	135	130	111	100	99
Energy per Capita (GIC/pop) [kgoe/capita]	4 934	5 133	5 198	4 519	4 401	4 132
Final Electricity per Capita [KWh/capita]	5 634	6 112	7 186	6 437	6 990	7 068
Import Dependency [%]	44,7%	44,8%	32,8%	57,2%	74,0%	79,3%
of Solid fossil fuels	99,4%	101,3%	101,4%	96,6%	102,1%	91,9%
of Hard Coal	98,9%	100,0%	101,6%	96,5%	101,8%	93,0%
of Oil and petroleum products	138,8%	139,5%	133,4%	144,3%	139,0%	141,7%
of Crude and NGL	96,7%	96,7%	97,6%	98,0%	99,9%	98,1%
of Natural Gas	-49,1%	-59,3%	-60,4%	-36,7%	26,0%	45,2%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		2.48%	3.92%	5.71%	8.89%	14.00%
RE-T - Renewable energy in Transport [%]		0.50%	3.40%	5.60%	12.33%	12.63%
RES-E - Renewable Electricity Generation [%]		6.30%	9.60%	11.04%	18.23%	26.41%
RES-H&C - Renewable Heating and Cooling [%]		2.38%	3.10%	5.28%	7.22%	8.05%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	181,5	188,3	192,2	176,0	165,4	144,9
GHG emissions - National total*	228,0	223,9	222,3	204,6	192,3	171,0
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	101,3%	99,4%	98,7%	90,9%	85,4%	76,0%
Total GHG per capita [t CO ₂ eq/capita]	14,4	13,7	13,4	12,1	11,1	9,8

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

5.21 Austria

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	9,8	9,9	12,1	12,2	12,4	12,4
Solid fossil fuels	0,3	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,3	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	1,1	0,9	1,1	0,9	0,7	0,6
of which crude oil	1,1	0,9	1,1	0,9	0,7	0,6
Natural gas	1,5	1,3	1,4	1,0	0,8	0,6
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	6,6	7,2	9,0	9,6	10,3	10,5
Wastes, Non-Renewable	0,3	0,4	0,6	0,7	0,6	0,7
Net Imports	19,2	24,7	21,9	20,4	24,9	18,8
Solid fossil fuels	3,0	4,0	3,4	2,8	2,8	2,4
of which hard coal	2,3	3,0	2,4	2,1	2,1	1,8
Oil and petroleum products	11,0	13,3	11,8	11,3	12,3	10,8
of which crude oil and NGL	7,4	8,0	6,9	8,2	8,7	7,6
Natural gas	5,3	7,2	6,1	5,0	9,4	5,3
Renewables and biofuels	0,0	0,0	0,4	0,4	0,1	0,0
Electricity	-0,1	0,2	0,2	0,9	0,3	0,2
Gross inland consumption	29,2	34,4	34,8	33,7	34,8	32,2
Solid fossil fuels	3,6	4,1	3,4	3,2	2,9	2,5
of which hard coal	2,5	2,8	2,5	2,5	2,2	1,9
of which brown coal	0,3	0,3	0,0	0,0	0,0	0,0
Oil and petroleum products	12,3	14,4	13,0	12,0	12,9	11,1
of which crude oil and NGL	8,5	9,0	8,0	9,0	9,3	8,2
Natural gas	6,6	8,1	8,1	6,9	7,7	7,3
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	6,6	7,2	9,5	10,0	10,4	10,5
Electricity	-0,1	0,2	0,2	0,9	0,3	0,2
Waste, non-renewable	0,3	0,4	0,6	0,7	0,6	0,7
Available for final consumption	23,6	27,3	27,8	27,3	28,3	26,9
Final non-energy consumption	1,7	1,6	1,8	1,8	2,1	2,1
Final energy consumption	21,8	25,7	26,0	25,5	26,2	24,8
by Fuel/Product						
Solid fossil fuels	0,7	0,5	0,4	0,4	0,3	0,3
Oil and petroleum products	9,0	11,2	9,7	9,1	9,5	8,5
Natural gas	4,0	4,7	4,7	4,6	4,8	4,6
Renewables and biofuels	2,4	2,9	4,1	4,3	4,2	4,1
Solid biofuels and renewable waste	2,3	2,7	3,2	3,1	3,1	3,0
Solar thermal	0,1	0,1	0,2	0,2	0,2	0,2
Geothermal	0,0	0,0	0,0	0,0	0,0	0,0
Liquid biofuels	0,0	0,1	0,5	0,7	0,5	0,4
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,1	0,2	0,2	0,2	0,2	0,3
Electricity	4,4	4,9	5,2	5,3	5,5	5,3
Heat	1,0	1,2	1,6	1,7	1,7	1,7
by Sector						
Industry	6,0	7,2	7,6	7,4	7,5	7,3
Transport	6,4	8,4	8,2	8,5	8,8	7,7
Residential	6,3	6,6	7,1	6,6	6,7	6,7
Services	2,6	3,0	2,6	2,5	2,6	2,6
Agriculture and Fishing	0,5	0,5	0,5	0,5	0,5	0,5
Others	0,0	0,0	0,0	0,0	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	17,8	19,1	21,3	24,7	25,9	26,3
Combustible Fuels	6,1	6,5	7,3	7,7	6,4	6,4
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Hydro	11,6	11,8	12,9	13,6	14,6	14,6
Wind	0,1	0,8	1,0	2,5	3,2	3,2
Solar	0,0	0,0	0,1	0,9	1,7	2,0
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]	61,2	66,8	71,1	65,3	74,2	72,6
Solid fossil fuels, peat and products, oil shale	5,7	7,2	4,9	3,0	1,5	0,6
Oil and petroleum products	1,7	1,6	1,3	0,9	0,7	0,7
Natural gas	8,9	14,3	16,1	9,8	13,2	11,8
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	44,8	43,2	48,2	51,0	58,0	58,8
Wastes non-RES	0,1	0,4	0,6	0,7	0,8	0,7
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			3,2	2,8	2,9	2,9
CHP Electricity Generation [TWh]			11,0	9,0	9,7	9,7
CHP in Total Electricity Generation [%]			15,4	13,8	13,1	13,9
CHP Heat Production [PJ]			110,6	105,9	110,2	111,3
Transport Fuels [ktoe]						
Final consumption petroleum products	8 274	10 600	9 352	8 857	9 351	8 356
of which LPG	166	188	177	73	73	70
of which motor gasoline	2 016	2 137	1 767	1 542	1 559	1 293
of which Gas/Diesel oil	6 093	8 275	7 408	7 242	7 718	6 993
Final consumption biofuels	17	83	532	683	510	427
pure and blended biogasoline	0	0	78	60	57	55
pure and blended biodiesel	17	83	454	623	454	372
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	27,5	32,7	32,9	31,7	32,3	29,7
Final energy consumption 2020-2030 [Mtoe]	23,7	27,9	28,0	27,5	28,3	26,1
Primary Energy Intensity 2020-2030 [toe/M€15]	98	107	101	92	86	85
Energy Intensity (GAE/GDP2015) [toe/M€15]	104	112	107	98	93	92
Energy per Capita (GIC/pop) [kgoe/capita]	3 652	4 192	4 171	3 928	3 924	3 619
Final Electricity per Capita [KWh/capita]	7 652	8 149	8 515	7 605	8 378	8 151
Import Dependency [%]	65,6%	71,8%	62,8%	60,4%	71,7%	58,3%
of Solid fossil fuels	83,9%	99,4%	99,6%	86,9%	96,7%	97,8%
of Hard Coal	91,6%	106,8%	97,3%	83,5%	98,4%	95,5%
of Oil and petroleum products	89,2%	92,2%	90,6%	94,0%	95,8%	97,6%
of Crude and NGL	86,9%	88,8%	86,5%	91,1%	94,0%	92,9%
of Natural Gas	80,6%	88,5%	75,3%	72,6%	122,8%	73,2%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		24.36%	31.21%	33.50%	33.75%	36.55%
RE-T - Renewable energy in Transport [%]		5.07%	10.71%	11.41%	10.05%	10.28%
RES-E - Renewable Electricity Generation [%]		62.90%	66.36%	71.49%	75.07%	78.20%
RES-H&C - Renewable Heating and Cooling [%]		22.82%	30.96%	33.23%	33.93%	34.99%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	67,8	81,0	74,1	68,5	70,8	63,1
GHG emissions - National total*	81,8	94,0	86,2	80,6	82,7	74,6
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	103,1%	118,5%	108,7%	101,7%	104,2%	94,1%
Total GHG per capita [t CO ₂ eq/capita]	10,2	11,5	10,3	9,4	9,3	8,4

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

5.22 Poland

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	78,6	77,9	66,8	67,8	62,1	58,0
Solid fossil fuels	70,7	68,4	55,1	53,6	44,4	40,0
of which hard coal	58,6	55,7	43,5	41,3	34,8	31,2
of which brown coal	12,1	12,7	11,6	12,3	9,5	8,8
Oil and petroleum products	0,7	0,9	0,7	0,9	1,0	0,9
of which crude oil	0,7	0,8	0,7	0,9	1,0	0,9
Natural gas	3,3	3,9	3,7	3,7	3,4	3,4
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	3,8	4,5	6,9	9,0	12,3	12,5
Wastes, Non-Renewable	0,1	0,2	0,4	0,5	1,1	1,1
Net Imports	9,6	16,5	32,1	28,7	48,1	44,2
Solid fossil fuels	-16,3	-13,0	-2,7	-5,5	2,6	0,1
of which hard coal	-13,8	-9,7	1,8	-1,0	6,9	4,5
Oil and petroleum products	19,8	22,0	25,7	24,1	30,7	28,8
of which crude oil and NGL	18,1	18,0	22,8	26,6	26,8	25,1
Natural gas	6,6	8,5	8,9	9,9	13,4	13,6
Renewables and biofuels	0,0	-0,1	0,4	0,1	0,5	0,4
Electricity	-0,5	-1,0	-0,1	0,0	0,9	1,1
Gross inland consumption	89,2	92,6	101,6	95,9	106,1	103,0
Solid fossil fuels	56,3	54,7	55,2	48,4	43,8	40,9
of which hard coal	46,3	45,5	48,5	40,7	38,8	36,2
of which brown coal	12,1	12,7	11,6	12,3	9,5	8,8
Oil and petroleum products	19,6	22,0	26,0	24,1	31,3	29,4
of which crude oil and NGL	18,3	18,5	23,2	26,5	27,7	26,0
Natural gas	10,0	12,2	12,8	13,8	16,2	17,4
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	3,8	4,5	7,3	9,1	12,7	13,0
Electricity	-0,5	-1,0	-0,1	0,0	0,9	1,1
Waste, non-renewable	0,1	0,2	0,4	0,5	1,1	1,1
Available for final consumption	57,1	61,7	70,4	65,2	77,7	77,1
Final non-energy consumption	4,4	4,6	5,0	5,6	5,6	5,8
Final energy consumption	53,6	57,5	65,3	60,9	71,9	70,3
by Fuel/Product						
Solid fossil fuels	11,9	11,5	13,2	10,7	9,0	9,0
Oil and petroleum products	15,2	17,6	20,2	18,6	25,4	24,4
Natural gas	6,3	7,9	8,9	8,5	9,3	9,2
Renewables and biofuels	3,5	3,9	5,3	5,6	9,2	9,0
Solid biofuels and renewable waste	3,5	3,8	4,3	4,6	7,7	7,5
Solar thermal	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
Liquid biofuels	0,0	0,0	0,9	0,7	1,0	1,0
Biogases	0,0	0,0	0,0	0,1	0,1	0,1
Waste, non-renewable	0,1	0,1	0,4	0,5	0,8	0,8
Electricity	8,4	9,0	10,2	11,0	12,1	11,8
Heat	6,9	6,6	6,5	5,5	5,6	5,6
by Sector						
Industry	17,1	14,6	13,5	14,1	16,5	15,9
Transport	9,6	12,2	17,2	16,6	22,8	21,8
Residential	17,2	19,5	22,0	19,0	21,0	21,1
Services	5,0	6,7	8,8	7,8	7,8	7,6
Agriculture and Fishing	4,6	4,4	3,7	3,3	3,8	3,9
Others	0,0	0,0	0,0	0,0	0,0	0,0

	2000	2005	2010	2015	2018	2020
Installed Electricity Capacity [GW]	30,6	32,3	33,4	37,3	43,4	49,4
Combustible Fuels	28,4	29,8	29,9	30,0	33,6	36,7
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Hydro	2,2	2,3	2,3	2,4	2,4	2,4
Wind	0,0	0,1	1,1	4,9	5,8	6,3
Solar	0,0	0,0	0,0	0,1	1,5	4,0
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]	145,2	156,6	157,6	164,8	163,8	157,9
Solid fossil fuels, peat and products, oil shale	135,9	141,9	136,5	130,5	118,1	107,4
Oil and petroleum products	1,9	2,8	2,9	2,1	1,8	1,7
Natural gas	3,0	6,5	6,7	8,8	17,1	19,3
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	4,3	5,4	11,5	23,3	26,2	29,0
Wastes non-RES	0,1	0,0	0,0	0,1	0,6	0,5
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			8,7	8,6	9,7	10,0
CHP Electricity Generation [TWh]			27,7	26,5	29,9	30,1
CHP in Total Electricity Generation [%]			17,6	16,1	18,3	16,8
CHP Heat Production [PJ]			277,1	238,6	248,5	245,6
Transport Fuels [ktoe]						
Final consumption petroleum products	13.789	16.388	19.566	18.333	24.888	23.848
of which LPG	1.153	2.598	2.618	2.504	2.946	2.659
of which motor gasoline	5.291	4.185	4.252	3.658	4.544	4.229
of which Gas/Diesel oil	7.344	9.605	12.696	12.170	17.398	16.959
Final consumption biofuels	0	50	867	653	1.026	1.041
pure and blended biogasoline	0	34	170	153	187	183
pure and blended biodiesel	0	15	698	500	838	857
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	84,8	88,0	96,6	90,1	100,2	96,9
Final energy consumption 2020-2030 [Mtoe]	55,1	58,5	66,3	62,3	73,7	71,1
Primary Energy Intensity 2020-2030 [toe/M€15]	335	299	259	209	195	193
Energy Intensity (GAE/GDP2015) [toe/M€15]	352	314	273	223	207	205
Energy per Capita (GIC/pop) [kgoe/capita]	2.332	2.425	2.672	2.522	2.793	2.713
Final Electricity per Capita [KWh/capita]	3.794	4.103	4.144	4.337	4.312	4.161
Import Dependency [%]	10,8%	17,8%	31,6%	29,9%	45,4%	42,9%
of Solid fossil fuels	-29,0%	-23,8%	-5,0%	-11,4%	6,0%	0,3%
of Hard Coal	-29,9%	-21,3%	3,7%	-2,4%	17,8%	12,4%
of Oil and petroleum products	101,2%	99,9%	99,0%	100,3%	98,2%	97,9%
of Crude and NGL	99,2%	97,4%	98,4%	100,5%	96,7%	96,6%
of Natural Gas	66,3%	69,7%	69,3%	72,2%	82,4%	78,3%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		6,90%	9,30%	11,88%	15,38%	16,10%
RE-T - Renewable energy in Transport [%]		1,75%	6,64%	5,69%	6,20%	6,58%
RES-E - Renewable Electricity Generation [%]		2,68%	6,65%	13,40%	14,36%	16,24%
RES-H&C - Renewable Heating and Cooling [%]		10,16%	11,81%	14,79%	22,00%	22,14%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	318,5	324,3	336,4	315,3	321,7	304,9
GHG emissions - National total*	397,5	406,1	414,4	391,0	393,8	377,4
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	83,4%	85,2%	87,0%	82,1%	82,6%	79,2%
Total GHG per capita [t CO ₂ eq/capita]	10,4	10,6	10,9	10,3	10,4	9,9

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

5.23 Portugal

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	3,8	3,6	5,8	5,9	6,6	6,8
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,0	0,0	0,0	0,0	0,0	0,0
of which crude oil	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	3,8	3,5	5,6	5,8	6,4	6,7
Wastes, Non-Renewable	0,1	0,1	0,2	0,1	0,2	0,1
Net Imports	22,2	24,8	18,7	18,5	18,4	14,4
Solid fossil fuels	3,9	3,2	1,6	3,2	1,5	0,0
of which hard coal	4,0	3,2	1,6	3,2	1,5	0,0
Oil and petroleum products	16,2	17,1	12,5	11,2	11,5	9,4
of which crude oil and NGL	11,7	13,4	11,5	14,4	11,5	11,0
Natural gas	2,0	3,9	4,5	4,1	5,3	5,2
Renewables and biofuels	0,0	0,0	-0,2	-0,2	-0,3	-0,3
Electricity	0,1	0,6	0,2	0,2	0,3	0,1
Gross inland consumption	25,4	27,4	24,4	23,6	23,9	21,4
Solid fossil fuels	3,8	3,3	1,7	3,3	1,2	0,6
of which hard coal	3,8	3,3	1,7	3,3	1,2	0,6
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	15,6	16,1	12,4	10,4	10,8	8,9
of which crude oil and NGL	11,8	13,4	11,6	14,2	11,4	11,2
Natural gas	2,0	3,8	4,5	4,1	5,3	5,2
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	3,8	3,5	5,5	5,6	6,1	6,4
Electricity	0,1	0,6	0,2	0,2	0,3	0,1
Waste, non-renewable	0,1	0,1	0,2	0,2	0,2	0,2
Available for final consumption	19,5	20,9	19,0	16,9	17,6	16,4
Final non-energy consumption	2,4	2,6	1,7	1,3	1,2	1,1
Final energy consumption	17,2	18,3	17,3	15,6	16,4	15,2
by Fuel/Product						
Solid fossil fuels	0,4	0,0	0,1	0,0	0,0	0,0
Oil and petroleum products	10,1	10,1	8,4	6,9	7,2	6,3
Natural gas	0,8	1,3	1,6	1,6	1,8	1,7
Renewables and biofuels	2,4	2,5	2,5	2,8	2,9	2,9
Solid biofuels and renewable waste	2,4	2,5	2,2	1,7	1,8	1,8
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	0,0	0,3	0,3	0,3	0,3
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,0	0,1	0,1	0,1	0,1
Electricity	3,3	4,0	4,3	3,9	4,1	4,0
Heat	0,1	0,3	0,3	0,2	0,2	0,2
by Sector						
Industry	6,3	5,8	5,5	4,4	4,6	4,5
Transport	6,0	6,4	6,5	5,6	6,0	5,0
Residential	2,8	3,2	3,0	2,8	2,9	3,0
Services	1,4	2,2	1,9	2,4	2,4	2,2
Agriculture and Fishing	0,7	0,6	0,5	0,4	0,5	0,5
Others	0,0	0,0	0,0	0,0	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	10,9	13,4	18,9	19,6	21,6	21,7
Combustible Fuels	6,3	7,3	9,9	8,0	8,2	8,2
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Hydro	4,5	5,0	5,1	6,2	7,3	7,2
Wind	0,1	1,1	3,8	4,9	5,2	5,1
Solar	0,0	0,0	0,1	0,4	0,9	1,1
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]	43,8	46,6	54,1	52,4	53,2	53,1
Solid fossil fuels, peat and products, oil shale	14,6	15,2	7,1	14,7	5,5	2,4
Oil and petroleum products	8,4	8,8	3,0	1,3	1,3	1,2
Natural gas	7,2	13,6	14,9	10,6	17,3	17,6
Nuclear	0,0	0,0	0,0	0,0	0,0	0,0
Renewables and biofuels	13,3	8,6	28,8	25,5	28,8	31,6
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	1,3	1,3
CHP Electricity Generation [TWh]			6,4	6,5	6,4	6,5
CHP in Total Electricity Generation [%]			11,8	12,3	12,1	12,8
CHP Heat Production [PJ]			67,2	59,3	62,1	59,8
Transport Fuels [ktoe]						
Final consumption petroleum products	8 310	8 557	7 439	6 200	6 566	5 734
of which LPG	1 139	971	728	571	557	548
of which motor gasoline	2 272	1 935	1 459	1 100	1 108	918
of which Gas/Diesel oil	4 899	5 652	5 252	4 528	4 901	4 268
Final consumption biofuels	0	0	327	344	283	255
pure and blended biogasoline	0	0	0	21	8	6
pure and blended biodiesel	0	0	323	320	275	249
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	23,0	24,9	22,7	21,6	22,1	19,5
Final energy consumption 2020-2030 [Mtoe]	18,0	19,0	18,1	16,0	17,1	15,0
Primary Energy Intensity 2020-2030 [toe/M€15]	132	137	121	120	110	106
Energy Intensity (GAE/GDP2015) [toe/M€15]	146	151	130	131	119	117
Energy per Capita (GIC/pop) [kgoe/capita]	2 476	2 614	2 306	2 274	2 325	2 077
Final Electricity per Capita [KWh/capita]	4 270	4 438	5 115	5 052	5 172	5 155
Import Dependency [%]	87,5 %	90,4 %	76,6 %	78,4 %	76,8 %	67,4 %
of Solid fossil fuels	102,9 %	96,3 %	98,3 %	98,5 %	122,1 %	-6,5 %
of Hard Coal	103,4 %	96,3 %	98,3 %	98,5 %	122,3 %	-7,9 %
of Oil and petroleum products	103,6 %	106,0 %	101,1 %	108,0 %	106,8 %	105,0 %
of Crude and NGL	99,0 %	100,2 %	98,8 %	100,9 %	100,4 %	98,3 %
of Natural Gas	100,3 %	103,8 %	100,4 %	100,4 %	99,9 %	99,3 %
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		19.53 %	24.16 %	30.51 %	30.62 %	33.98 %
RE-T - Renewable energy in Transport [%]		0.45 %	5.55 %	7.43 %	9.09 %	9.70 %
RES-E - Renewable Electricity Generation [%]		27.70 %	40.61 %	52.62 %	53.77 %	58.03 %
RES-H&C - Renewable Heating and Cooling [%]		32.09 %	33.83 %	40.10 %	41.66 %	41.55 %
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	67,9	72,2	55,8	55,6	52,1	43,5
GHG emissions - National total*	83,6	88,1	71,6	70,9	68,0	59,2
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	139,4 %	146,8 %	119,3 %	118,1 %	113,4 %	98,6 %
Total GHG per capita [t CO ₂ eq/capita]	8,2	8,4	6,8	6,8	6,6	5,7

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

5.24 Romania

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	28,5	27,9	27,4	26,4	24,5	22,4
Solid fossil fuels	5,6	5,8	5,9	4,7	3,9	2,6
of which hard coal	0,2	0,0	0,0	0,0	0,0	0,0
of which brown coal	5,4	5,8	5,9	4,7	3,9	2,6
Oil and petroleum products	6,4	5,9	4,2	3,9	3,5	3,4
of which crude oil	6,4	5,3	4,2	3,9	3,5	3,4
Natural gas	11,0	9,7	8,6	8,8	8,3	7,4
Nuclear	1,4	1,4	2,9	2,9	2,8	2,9
Renewables and biofuels	4,0	5,0	5,7	5,9	5,8	5,8
Wastes, Non-Renewable	0,1	0,1	0,0	0,1	0,1	0,3
Net Imports	8,0	10,6	7,5	5,3	10,1	9,1
Solid fossil fuels	1,9	2,9	1,2	1,0	1,1	0,8
of which hard coal	1,6	2,1	0,1	0,1	0,1	0,1
Oil and petroleum products	3,5	3,8	4,6	4,7	6,5	6,3
of which crude oil and NGL	4,8	8,7	5,7	6,5	8,6	7,0
Natural gas	2,7	4,2	1,8	0,2	2,1	1,6
Renewables and biofuels	0,0	0,0	0,1	0,0	0,2	0,2
Electricity	-0,1	-0,2	-0,2	-0,6	0,1	0,2
Gross inland consumption	36,8	38,7	35,0	31,9	33,2	32,2
Solid fossil fuels	7,5	8,8	6,9	5,9	4,9	3,5
of which hard coal	1,7	2,0	0,1	0,1	0,1	0,1
of which brown coal	5,5	6,4	6,2	5,3	4,3	3,0
Oil and petroleum products	10,1	9,8	8,6	8,6	9,9	9,6
of which crude oil and NGL	11,1	14,0	10,0	10,4	12,0	10,5
Natural gas	13,7	13,9	10,8	8,9	9,3	9,7
Nuclear	1,4	1,4	2,9	2,9	2,8	2,9
Renewables and biofuels	4,0	4,9	5,9	6,0	6,0	6,0
Electricity	-0,1	-0,2	-0,2	-0,6	0,1	0,2
Waste, non-renewable	0,1	0,1	0,0	0,1	0,2	0,3
Available for final consumption	24,1	26,0	24,8	22,8	25,1	25,1
Final non-energy consumption	1,9	2,6	2,1	1,1	1,1	1,3
Final energy consumption	21,9	23,6	22,0	21,6	23,7	23,5
by Fuel/Product						
Solid fossil fuels	0,3	0,6	0,5	0,8	0,7	0,6
Oil and petroleum products	5,4	6,5	6,0	6,8	8,3	7,9
Natural gas	6,5	7,2	6,0	5,3	5,6	5,8
Renewables and biofuels	2,7	3,2	4,0	3,5	3,8	3,8
Solid biofuels and renewable waste	2,7	3,2	3,9	3,3	3,4	3,4
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	0,1	0,2	0,4	0,5
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,1	0,1	0,0	0,1	0,2	0,3
Electricity	2,9	3,3	3,6	3,7	3,9	3,8
Heat	3,6	2,1	1,6	1,3	1,1	1,0
by Sector						
Industry	8,6	9,0	6,5	6,4	6,7	6,4
Transport	3,3	4,2	5,0	5,3	6,6	6,5
Residential	8,4	8,0	8,1	7,4	7,8	8,0
Services	0,7	1,7	1,9	1,8	2,0	1,8
Agriculture and Fishing	0,4	0,2	0,4	0,5	0,6	0,5
Others	0,5	0,6	0,2	0,2	0,2	0,2

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	16,8	19,0	19,9	23,8	20,9	20,6
Combustible Fuels	10,0	12,0	11,6	11,2	8,4	8,1
Nuclear	0,7	0,7	1,4	1,4	1,4	1,4
Hydro	6,1	6,3	6,5	6,7	6,7	6,7
Wind	0,0	0,0	0,4	3,1	3,0	3,0
Solar	0,0	0,0	0,0	1,3	1,4	1,4
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]	51,6	59,4	61,0	66,3	59,6	55,9
Solid fossil fuels, peat and products, oil shale	18,9	21,9	20,7	18,1	13,6	9,4
Oil and petroleum products	3,4	1,9	0,7	0,5	0,6	0,6
Natural gas	9,0	9,8	7,3	9,5	9,1	9,6
Nuclear	5,5	5,6	11,6	11,6	11,3	11,5
Renewables and biofuels	14,8	20,2	20,7	26,6	25,1	24,9
Wastes non-RES	0,0	0,0	0,0	0,0	0,0	0,0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			4,6	1,8	1,3	1,4
CHP Electricity Generation [TWh]			6,5	5,6	5,1	4,6
CHP in Total Electricity Generation [%]			10,8	8,4	12,1	7,8
CHP Heat Production [PJ]			69,0	51,0	62,1	35,4
Transport Fuels [ktoe]						
Final consumption petroleum products	4 355	5 513	5 662	6 172	7 377	7 148
of which LPG	317	738	489	438	514	454
of which motor gasoline	1 403	1 762	1 457	1 319	1 395	1 290
of which Gas/Diesel oil	2 634	3 013	3 717	4 415	5 468	5 404
Final consumption biofuels	0	0	116	202	412	483
pure and blended biogasoline	0	0	47	61	98	92
pure and blended biodiesel	0	0	69	141	315	392
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	34,9	36,1	32,9	30,7	32,1	30,9
Final energy consumption 2020-2030 [Mtoe]	22,7	24,6	22,5	21,8	23,9	23,5
Primary Energy Intensity 2020-2030 [toe/M€15]	379	298	237	192	164	164
Energy Intensity (GAE/GDP2015) [toe/M€15]	400	320	252	199	170	171
Energy per Capita (GIC/pop) [kgoe/capita]	1 637	1 809	1 725	1 604	1 710	1 666
Final Electricity per Capita [KWh/capita]	2 296	2 779	3 005	3 336	3 071	2 894
Import Dependency [%]	21,9%	27,5%	21,4%	16,7%	30,3%	28,2%
of Solid fossil fuels	25,5%	33,2%	16,9%	16,7%	22,0%	22,0%
of Hard Coal	96,3%	103,1%	88,4%	96,9%	97,7%	106,4%
of Oil and petroleum products	34,4%	38,6%	52,7%	54,5%	65,6%	65,0%
of Crude and NGL	43,5%	62,0%	57,2%	63,0%	72,0%	66,9%
of Natural Gas	19,8%	30,1%	16,8%	1,8%	23,2%	16,6%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		17,57%	22,83%	24,79%	24,29%	24,48%
RE-T - Renewable energy in Transport [%]		1,87%	1,37%	5,49%	7,85%	8,54%
RES-E - Renewable Electricity Generation [%]		28,78%	30,38%	43,16%	42,62%	43,37%
RES-H&C - Renewable Heating and Cooling [%]		17,93%	27,23%	25,89%	25,74%	25,33%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	93,1	100,6	85,1	78,7	77,5	74,3
GHG emissions - National total*	139,4	147,3	123,4	115,5	114,4	110,1
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	55,7%	58,8%	49,2%	46,1%	45,7%	43,9%
Total GHG per capita [t CO ₂ eq/capita]	6,2	6,9	6,1	5,8	5,9	5,7

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

5.25 Slovenia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	3,2	3,7	3,7	3,3	3,4	3,5
Solid fossil fuels	1,1	1,2	1,2	0,9	0,9	0,9
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	1,1	1,2	1,2	0,9	0,9	0,9
Oil and petroleum products	0,0	0,0	0,0	0,0	0,0	0,0
of which crude oil	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Nuclear	1,2	1,5	1,3	1,3	1,4	1,5
Renewables and biofuels	0,9	1,0	1,1	1,1	1,0	1,1
Wastes, Non-Renewable	0,0	0,0	0,0	0,0	0,1	0,1
Net Imports	3,4	3,9	3,6	3,2	3,6	2,9
Solid fossil fuels	0,2	0,3	0,3	0,2	0,2	0,2
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	2,5	2,6	2,6	2,3	2,6	2,1
of which crude oil and NGL	0,1	0,0	0,0	0,0	0,0	0,0
Natural gas	0,8	0,9	0,9	0,7	0,7	0,7
Renewables and biofuels	0,0	0,0	0,0	0,0	0,1	0,1
Electricity	-0,1	0,0	-0,2	0,0	0,0	-0,2
Gross inland consumption	6,6	7,6	7,3	6,5	6,7	6,3
Solid fossil fuels	1,3	1,5	1,5	1,1	1,1	1,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	1,2	1,5	1,4	1,0	1,0	1,0
Oil and petroleum products	2,4	2,6	2,6	2,3	2,4	2,0
of which crude oil and NGL	0,1	0,0	0,0	0,0	0,0	0,0
Natural gas	0,8	0,9	0,9	0,7	0,7	0,7
Nuclear	1,2	1,5	1,3	1,3	1,4	1,5
Renewables and biofuels	0,9	1,0	1,2	1,1	1,1	1,2
Electricity	-0,1	0,0	-0,2	0,0	0,0	-0,2
Waste, non-renewable	0,0	0,0	0,0	0,0	0,1	0,1
Available for final consumption	4,8	5,4	5,3	4,8	5,0	4,6
Final non-energy consumption	0,2	0,3	0,2	0,1	0,2	0,1
Final energy consumption	4,5	5,1	5,0	4,7	4,9	4,4
by Fuel/Product						
Solid fossil fuels	0,1	0,1	0,0	0,0	0,0	0,0
Oil and petroleum products	2,2	2,4	2,4	2,1	2,2	1,9
Natural gas	0,6	0,7	0,6	0,6	0,6	0,6
Renewables and biofuels	0,5	0,7	0,7	0,7	0,6	0,6
Solid biofuels and renewable waste	0,5	0,7	0,6	0,6	0,5	0,5
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	0,0	0,0	0,1	0,1
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,0	0,0	0,0	0,0	0,1	0,0
Electricity	0,9	1,1	1,0	1,1	1,2	1,1
Heat	0,2	0,2	0,2	0,2	0,2	0,2
by Sector						
Industry	1,4	1,6	1,3	1,2	1,3	1,3
Transport	1,2	1,5	1,8	1,8	1,9	1,6
Residential	1,2	1,4	1,4	1,2	1,1	1,1
Services	0,5	0,5	0,5	0,5	0,5	0,4
Agriculture and Fishing	0,1	0,1	0,1	0,1	0,1	0,1
Others	0,0	0,0	0,0	0,0	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	2,6	3,0	3,2	3,4	3,8	3,9
Combustible Fuels	1,1	1,4	1,3	1,1	1,5	1,5
Nuclear	0,7	0,7	0,7	0,7	0,7	0,7
Hydro	0,8	1,0	1,3	1,3	1,4	1,4
Wind	0,0	0,0	0,0	0,0	0,0	0,0
Solar	0,0	0,0	0,0	0,2	0,3	0,4
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]	13,6	15,1	16,4	15,1	16,1	17,2
Solid fossil fuels, peat and products, oil shale	4,6	5,3	5,3	4,4	4,5	4,4
Oil and petroleum products	0,1	0,0	0,0	0,0	0,0	0,0
Natural gas	0,3	0,3	0,5	0,4	0,5	0,6
Nuclear	4,8	5,9	5,7	5,6	5,8	6,4
Renewables and biofuels	3,9	3,6	4,9	4,6	5,2	5,9
Wastes non-RES	0,0	0,0	0,0	0,0	0,0	0,0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0,3	0,4	0,4	0,3
CHP Electricity Generation [TWh]			1,1	1,2	1,2	1,2
CHP in Total Electricity Generation [%]			6,9	7,7	7,3	7,3
CHP Heat Production [PJ]			11,6	10,4	11,0	11,2
Transport Fuels [ktoe]						
Final consumption petroleum products	2 135	2 303	2 407	2 112	2 159	1 827
of which LPG	104	101	92	88	96	84
of which motor gasoline	854	693	604	442	413	327
of which Gas/Diesel oil	1 177	1 510	1 710	1 582	1 651	1 416
Final consumption biofuels	0	0	46	29	95	93
pure and blended biogasoline	0	0	4	7	4	8
pure and blended biodiesel	0	0	41	23	91	85
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	6,3	7,2	7,0	6,3	6,5	6,1
Final energy consumption 2020-2030 [Mtoe]	4,6	5,1	5,1	4,7	4,9	4,4
Primary Energy Intensity 2020-2030 [toe/M€15]	217	209	185	163	144	141
Energy Intensity (GAE/GDP2015) [toe/M€15]	225	218	191	167	148	146
Energy per Capita (GIC/pop) [kgoe/capita]	3 301	3 786	3 544	3 151	3 231	3 016
Final Electricity per Capita [KWh/capita]	6 854	7 567	8 031	7 320	7 737	8 202
Import Dependency [%]	51,9%	51,0%	49,4%	49,8%	53,6%	46,6%
of Solid fossil fuels	18,8%	21,0%	19,3%	19,1%	20,1%	17,6%
of Hard Coal	118,2%	100,0%	135,3%	124,2%	95,9%	97,7%
of Oil and petroleum products	101,5%	102,1%	99,9%	102,4%	109,6%	105,3%
of Crude and NGL	87,2%	0,0%	0,0%	0,0%	0,0%	0,0%
of Natural Gas	99,3%	99,6%	99,3%	99,6%	99,2%	99,4%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)	19,81%	21,08%	22,88%	21,97%	25,00%	
RE-T - Renewable energy in Transport [%]	0,83%	3,12%	2,24%	7,98%	10,91%	
RES-E - Renewable Electricity Generation [%]	28,65%	32,20%	32,72%	32,63%	35,09%	
RES-H&C - Renewable Heating and Cooling [%]	26,40%	29,54%	36,15%	32,13%	32,14%	
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	15,1	17,0	16,5	13,7	14,1	12,9
GHG emissions - National total*	18,7	20,5	19,7	16,9	17,2	15,9
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	100,0%	110,1%	105,7%	90,5%	92,0%	85,1%
Total GHG per capita [t CO ₂ eq/capita]	9,4	10,3	9,6	8,2	8,2	7,6

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

5.26 Slovakia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	6,3	6,4	6,0	6,4	6,9	6,8
Solid fossil fuels	1,0	0,6	0,6	0,5	0,4	0,2
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	1,0	0,6	0,6	0,5	0,4	0,2
Oil and petroleum products	0,1	0,0	0,0	0,0	0,0	0,0
of which crude oil	0,1	0,0	0,0	0,0	0,0	0,0
Natural gas	0,1	0,1	0,1	0,1	0,1	0,1
Nuclear	4,3	4,7	3,9	4,0	4,0	4,0
Renewables and biofuels	0,5	0,9	1,4	1,6	2,2	2,2
Wastes, Non-Renewable	0,3	0,1	0,0	0,2	0,2	0,2
Net Imports	11,5	12,3	11,4	9,8	11,9	9,3
Solid fossil fuels	3,4	3,7	3,0	2,8	2,5	2,0
of which hard coal	3,1	3,5	2,6	2,5	2,2	1,7
Oil and petroleum products	2,6	3,2	3,5	3,1	3,6	3,7
of which crude oil and NGL	5,3	5,3	5,5	5,9	5,2	5,7
Natural gas	5,7	5,7	5,0	3,7	5,6	3,6
Renewables and biofuels	0,0	0,0	-0,1	0,0	0,0	0,0
Electricity	-0,2	-0,3	0,1	0,2	0,1	0,0
Gross inland consumption	17,7	18,7	17,7	16,3	17,0	16,4
Solid fossil fuels	4,3	4,2	3,9	3,3	2,7	2,3
of which hard coal	3,0	3,3	2,8	2,6	2,2	1,8
of which brown coal	1,2	0,9	0,8	0,7	0,5	0,5
Oil and petroleum products	2,9	3,3	3,5	3,1	3,6	3,6
of which crude oil and NGL	5,4	5,5	5,5	5,9	5,1	5,6
Natural gas	5,8	5,9	5,0	3,9	4,1	4,1
Nuclear	4,3	4,7	3,9	4,0	4,0	4,0
Renewables and biofuels	0,5	0,8	1,3	1,6	2,2	2,1
Electricity	-0,2	-0,3	0,1	0,2	0,1	0,0
Waste, non-renewable	0,3	0,1	0,0	0,2	0,2	0,2
Available for final consumption	11,7	11,7	11,5	10,0	11,3	10,8
Final non-energy consumption	1,4	1,3	1,1	1,0	1,0	1,2
Final energy consumption	9,9	10,4	10,4	8,9	10,2	9,6
by Fuel/Product						
Solid fossil fuels	0,9	0,6	0,7	0,4	0,4	0,4
Oil and petroleum products	1,7	2,1	2,3	2,1	2,8	2,6
Natural gas	4,2	3,9	3,5	2,5	2,6	2,4
Renewables and biofuels	0,1	0,3	0,5	0,6	1,2	1,1
Solid biofuels and renewable waste	0,1	0,3	0,4	0,4	1,0	0,9
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	0,1	0,1	0,2	0,2
Biogases	0,0	0,0	0,0	0,0	0,0	0,0
Waste, non-renewable	0,2	0,0	0,0	0,2	0,2	0,2
Electricity	1,9	2,0	2,1	2,1	2,2	2,0
Heat	0,6	1,0	0,9	0,6	0,5	0,5
by Sector						
Industry	3,5	3,6	3,2	3,3	3,5	3,1
Transport	1,4	2,4	2,6	2,2	2,8	2,5
Residential	2,6	2,5	2,3	2,0	2,6	2,7
Services	2,2	1,8	2,1	1,3	1,2	1,1
Agriculture and Fishing	0,2	0,2	0,1	0,2	0,1	0,1
Others	0,0	0,0	0,0	0,0	0,0	0,0

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	7,5	8,3	7,9	7,8	7,7	7,7
Combustible Fuels	2,4	3,1	3,5	2,8	2,6	2,7
Nuclear	2,6	2,6	1,8	1,9	1,9	2,0
Hydro	2,4	2,5	2,5	2,5	2,5	2,5
Wind	0,0	0,0	0,0	0,0	0,0	0,0
Solar	0,0	0,0	0,0	0,5	0,6	0,5
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]	31,2	31,4	27,8	26,8	28,4	28,8
Solid fossil fuels, peat and products, oil shale	5,6	5,5	3,6	2,8	2,3	1,9
Oil and petroleum products	0,2	0,7	0,6	0,4	0,5	0,4
Natural gas	3,9	2,6	2,7	2,1	3,4	3,9
Nuclear	16,5	17,7	14,6	15,1	15,3	15,4
Renewables and biofuels	5,0	4,8	6,3	6,3	6,9	7,1
Wastes non-RES	0,0	0,0	0,0	0,0	0,0	0,0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			2,8	3,7	1,5	1,6
CHP Electricity Generation [TWh]			4,4	21,1	3,1	3,3
CHP in Total Electricity Generation [%]			15,9	78,5	10,8	11,0
CHP Heat Production [PJ]			20,1	27,3	34,9	35,1
Transport Fuels [ktoe]						
Final consumption petroleum products	1 498	1 850	2 179	1 983	2 496	2 296
of which LPG	33	63	42	54	49	49
of which motor gasoline	612	672	601	578	551	505
of which Gas/Diesel oil	852	1 115	1 536	1 351	1 896	1 742
Final consumption biofuels	0	11	98	144	157	155
pure and blended biogasoline	0	0	24	23	20	26
pure and blended biodiesel	0	11	74	121	137	129
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	16,4	17,4	16,7	15,2	16,0	15,2
Final energy consumption 2020-2030 [Mtoe]	11,0	11,6	11,5	10,1	11,2	10,4
Primary Energy Intensity 2020-2030 [toe/M€15]	378	315	236	190	179	178
Energy Intensity (GAE/GDP2015) [toe/M€15]	410	338	251	204	191	193
Energy per Capita (GIC/pop) [kgoe/capita]	3 284	3 480	3 286	3 000	3 123	3 013
Final Electricity per Capita [KWh/capita]	5 771	5 851	5 161	4 944	5 211	5 278
Import Dependency [%]	65,1%	66,0%	64,4%	60,1%	69,8%	56,3%
of Solid fossil fuels	80,2%	88,3%	75,7%	84,5%	92,2%	86,2%
of Hard Coal	103,8%	105,2%	91,9%	97,5%	102,7%	97,3%
of Oil and petroleum products	92,5%	97,4%	98,4%	100,6%	101,3%	102,0%
of Crude and NGL	97,6%	97,8%	99,9%	99,3%	100,5%	101,4%
of Natural Gas	98,8%	97,5%	99,9%	95,1%	136,6%	88,1%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		6.36%	9.10%	12.88%	16.89%	17.34%
RE-T - Renewable energy in Transport [%]		1.66%	5.29%	8.63%	8.31%	9.26%
RES-E - Renewable Electricity Generation [%]		15.74%	17.77%	22.66%	22.10%	23.07%
RES-H&C - Renewable Heating and Cooling [%]		5.03%	7.90%	10.79%	19.70%	19.43%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	41,2	43,0	38,6	34,7	34,0	31,2
GHG emissions - National total*	48,8	50,7	45,8	40,9	40,0	37,1
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	66,4%	69,0%	62,3%	55,6%	54,4%	50,5%
Total GHG per capita [t CO ₂ eq/capita]	9,0	9,4	8,5	7,5	7,3	6,8

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

5.27 Finland

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	14,9	16,7	17,1	17,2	19,3	18,4
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,1	0,2	0,1	0,0	0,0	0,0
of which crude oil	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Nuclear	5,8	6,0	5,6	5,6	5,7	5,5
Renewables and biofuels	7,8	8,2	9,4	10,4	12,1	11,9
Wastes, Non-Renewable	0,1	0,1	0,1	0,2	0,3	0,3
Net Imports	18,6	19,3	18,1	15,8	14,6	13,6
Solid fossil fuels	3,5	3,3	4,0	2,5	2,1	1,7
of which hard coal	3,2	3,0	3,7	2,3	2,0	1,6
Oil and petroleum products	10,6	10,9	9,5	9,6	8,4	8,3
of which crude oil and NGL	11,9	10,8	11,4	11,1	12,7	11,6
Natural gas	3,4	3,6	3,8	2,2	2,1	2,1
Renewables and biofuels	0,0	-0,1	-0,1	0,1	0,1	0,2
Electricity	1,0	1,5	0,9	1,4	1,7	1,3
Gross inland consumption	32,8	34,8	36,8	32,7	34,2	32,1
Solid fossil fuels	3,6	3,3	4,6	2,7	2,1	1,8
of which hard coal	3,3	2,9	4,3	2,6	2,1	1,8
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	9,5	10,5	10,0	8,4	8,5	7,8
of which crude oil and NGL	11,7	11,1	11,3	10,7	12,8	11,6
Natural gas	3,4	3,6	3,8	2,2	2,1	2,1
Nuclear	5,8	6,0	5,6	5,6	5,7	5,5
Renewables and biofuels	7,8	8,1	9,3	10,5	12,2	12,0
Electricity	1,0	1,5	0,9	1,4	1,7	1,3
Waste, non-renewable	0,1	0,1	0,1	0,2	0,3	0,3
Available for final consumption	23,7	25,3	26,3	24,1	25,7	24,8
Final non-energy consumption	1,0	1,2	1,2	1,3	1,4	1,5
Final energy consumption	23,3	24,0	25,0	23,0	24,7	23,2
by Fuel/Product						
Solid fossil fuels	0,3	0,3	0,2	0,1	0,1	0,1
Oil and petroleum products	7,2	7,4	6,9	6,0	5,8	5,5
Natural gas	0,9	0,8	0,8	0,6	0,7	0,7
Renewables and biofuels	4,5	4,2	4,8	5,4	6,8	6,3
Solid biofuels and renewable waste	4,5	4,2	4,6	4,9	5,6	5,3
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	0,2	0,5	0,4	0,4
Biogases	0,0	0,0	0,0	0,0	0,1	0,1
Waste, non-renewable	0,0	0,0	0,0	0,0	0,0	0,0
Electricity	6,5	6,9	7,2	6,7	7,0	6,6
Heat	3,3	3,8	4,6	3,8	3,9	3,6
by Sector						
Industry	11,5	11,1	10,7	10,2	11,0	10,2
Transport	3,9	4,2	4,3	4,1	4,2	3,9
Residential	4,5	5,0	5,8	5,0	5,6	5,3
Services	2,3	2,6	3,1	2,7	3,0	2,8
Agriculture and Fishing	0,8	0,8	0,8	0,7	0,7	0,7
Others	0,3	0,3	0,3	0,3	0,2	0,3

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	16,3	16,5	15,4	16,5	17,4	17,3
Combustible Fuels	10,7	10,7	9,5	9,6	8,9	8,4
Nuclear	2,6	2,7	2,7	2,8	2,8	2,8
Hydro	2,9	3,0	3,0	3,1	3,2	3,2
Wind	0,0	0,1	0,2	1,0	2,3	2,6
Solar	0,0	0,0	0,0	0,0	0,2	0,3
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]	69,8	70,3	80,4	68,4	68,4	68,7
Solid fossil fuels, peat and products, oil shale	12,5	11,0	20,8	8,2	7,4	4,6
Oil and petroleum products	0,6	0,5	0,5	0,2	0,3	0,2
Natural gas	10,8	11,9	11,8	5,8	4,5	4,6
Nuclear	22,5	23,3	22,8	23,2	23,9	23,3
Renewables and biofuels	23,4	23,5	24,2	30,5	31,9	35,6
Wastes non-RES	0,1	0,2	0,2	0,4	0,5	0,4
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			6,2	5,8	6,4	6,4
CHP Electricity Generation [TWh]			29,2	21,7	22,5	18,9
CHP in Total Electricity Generation [%]			36,2	31,7	32,8	26,4
CHP Heat Production [PJ]			272,8	242,4	242,7	214,8
Transport Fuels [ktoe]						
Final consumption petroleum products	6 137	6 398	6 156	5 502	5 402	5 132
of which LPG	263	309	311	430	351	305
of which motor gasoline	1 833	1 927	1 613	1 441	1 323	1 230
of which Gas/Diesel oil	4 041	4 163	4 232	3 631	3 728	3 596
Final consumption biofuels	0	0	184	501	433	401
pure and blended biogasoline	0	0	81	70	94	99
pure and blended biodiesel	0	0	63	430	339	301
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	31,6	33,6	35,4	31,2	32,1	29,9
Final energy consumption 2020-2030 [Mtoe]	24,4	25,2	26,2	24,2	25,4	23,3
Primary Energy Intensity 2020-2030 [toe/M€15]	179	167	168	148	140	133
Energy Intensity (GAE/GDP2015) [toe/M€15]	185	173	175	155	149	143
Energy per Capita (GIC/pop) [kgoe/capita]	6 336	6 654	6 875	5 969	6 201	5 813
Final Electricity per Capita [KWh/capita]	13 495	13 432	15 017	12 491	12 394	12 438
Import Dependency [%]	56,6%	55,3%	49,1%	48,4%	42,5%	42,4%
of Solid fossil fuels	97,6%	102,0%	86,3%	91,3%	98,9%	92,2%
of Hard Coal	97,7%	102,6%	85,5%	88,6%	96,1%	90,0%
of Oil and petroleum products	111,5%	103,9%	94,2%	113,3%	98,9%	106,4%
of Crude and NGL	101,5%	97,5%	101,1%	104,2%	99,0%	99,7%
of Natural Gas	100,0%	100,0%	100,0%	100,0%	100,6%	100,4%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		28.81 %	32.29 %	39.23 %	42.72 %	43.80 %
RE-T - Renewable energy in Transport [%]		0.91 %	4.41 %	24.56 %	14.32 %	13.44 %
RES-E - Renewable Electricity Generation [%]		26.92 %	27.66 %	32.21 %	37.97 %	39.56 %
RES-H&C - Renewable Heating and Cooling [%]		39.12 %	43.97 %	52.62 %	56.88 %	57.62 %
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	58,2	58,4	65,8	46,1	45,0	38,5
GHG emissions - National total*	71,3	71,2	77,3	57,0	55,4	48,7
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	98,8%	98,7%	107,1%	79,0%	76,7%	67,4%
Total GHG per capita [t CO ₂ eq/capita]	13,8	13,6	14,5	10,4	10,0	8,8

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

5.28 Sweden

Mtoe, unless otherwise stated	2000	2005	2010	2015	2019	2020
Production	30,0	33,8	31,8	35,8	37,0	34,9
Solid fossil fuels	0,0	0,0	0,0	0,0	0,0	0,0
of which hard coal	0,0	0,0	0,0	0,0	0,0	0,0
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	0,0	0,0	0,0	0,0	0,0	0,0
of which crude oil	0,0	0,0	0,0	0,0	0,0	0,0
Natural gas	0,0	0,0	0,0	0,0	0,0	0,0
Nuclear	14,8	18,7	14,5	15,5	16,2	12,0
Renewables and biofuels	14,7	14,5	16,5	19,6	19,9	21,9
Wastes, Non-Renewable	0,3	0,5	0,5	0,6	0,7	0,9
Net Imports	19,3	20,3	19,9	14,7	15,6	16,0
Solid fossil fuels	2,3	2,5	2,4	1,9	1,9	1,5
of which hard coal	2,1	2,2	2,3	1,9	1,6	1,4
Oil and petroleum products	15,7	17,4	15,5	13,0	13,5	14,0
of which crude oil and NGL	20,8	20,2	20,0	20,3	16,5	18,7
Natural gas	0,8	0,8	1,5	0,7	1,0	1,3
Renewables and biofuels	0,0	0,1	0,2	0,9	1,4	1,4
Electricity	0,4	-0,6	0,2	-1,9	-2,2	-2,1
Gross inland consumption	47,7	51,4	50,5	47,0	49,7	45,2
Solid fossil fuels	2,2	2,3	2,1	2,0	1,9	1,5
of which hard coal	2,0	2,1	2,0	1,9	1,7	1,4
of which brown coal	0,0	0,0	0,0	0,0	0,0	0,0
Oil and petroleum products	14,2	14,8	14,6	9,5	10,6	8,4
of which crude oil and NGL	20,7	20,1	20,2	19,5	16,5	17,6
Natural gas	0,8	0,8	1,5	0,7	0,9	1,3
Nuclear	14,8	18,7	14,5	15,5	16,2	12,0
Renewables and biofuels	14,7	14,6	16,8	20,5	21,4	23,2
Electricity	0,4	-0,6	0,2	-1,9	-2,2	-2,1
Waste, non-renewable	0,3	0,5	0,5	0,6	0,8	1,0
Available for final consumption	34,9	33,4	35,1	31,9	33,6	33,1
Final non-energy consumption	1,7	2,4	2,1	1,8	2,3	1,7
Final energy consumption	33,7	31,7	32,5	31,5	31,3	31,5
by Fuel/Product						
Solid fossil fuels	0,5	0,4	0,4	0,4	0,3	0,3
Oil and petroleum products	12,6	10,6	9,5	7,9	7,0	6,5
Natural gas	0,4	0,5	0,6	0,6	0,5	0,5
Renewables and biofuels	5,3	4,5	5,4	7,5	8,2	9,2
Solid biofuels and renewable waste	5,3	4,3	5,0	5,3	5,1	6,0
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	0,2	0,4	1,0	1,6	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	0,1
Electricity	11,1	11,2	11,3	10,7	10,7	10,6
Heat	3,6	4,2	5,1	4,2	4,3	4,1
by Sector						
Industry	13,7	11,7	11,6	11,0	10,9	11,6
Transport	7,5	7,5	7,5	7,3	7,0	6,6
Residential	7,3	7,6	8,3	7,4	7,4	7,2
Services	4,4	4,1	4,3	4,0	4,0	4,0
Agriculture and Fishing	0,8	0,8	0,7	0,7	0,6	0,6
Others	0,0	0,0	0,0	1,1	1,4	1,5

	2000	2005	2010	2015	2019	2020
Installed Electricity Capacity [GW]	33,7	33,4	36,5	39,7	42,8	43,7
Combustible Fuels	7,5	7,1	8,7	7,8	8,3	8,4
Nuclear	9,5	9,5	9,0	9,7	8,6	7,8
Hydro	16,5	16,3	16,7	16,3	16,5	16,4
Wind	0,2	0,5	2,0	5,8	8,7	10,0
Solar	0,0	0,0	0,0	0,1	0,7	1,1
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]	145,3	158,4	148,5	162,1	168,4	163,8
Solid fossil fuels, peat and products, oil shale	1,7	1,2	1,8	0,6	0,4	0,1
Oil and petroleum products	1,5	1,4	1,8	0,3	0,2	0,1
Natural gas	1,3	1,3	3,8	1,1	1,1	0,7
Nuclear	57,3	72,4	57,8	56,3	66,1	49,2
Renewables and biofuels	83,2	81,3	82,2	102,6	99,0	112,2
Wastes non-RES	0,2	0,9	1,2	1,2	1,7	1,5
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			5,1	4,9	3,3	3,3
CHP Electricity Generation [TWh]			18,5	13,7	9,2	9,2
CHP in Total Electricity Generation [%]			12,5	8,4	5,5	5,5
CHP Heat Production [PJ]			187,2	151,3	94,0	94,0
Transport Fuels [ktoe]						
Final consumption petroleum products	9906	9270	8578	7421	6564	6157
of which LPG	397	456	463	367	364	314
of which motor gasoline	4208	4118	3422	2601	2170	1990
of which Gas/Diesel oil	5302	4695	4692	4454	4030	3853
Final consumption biofuels	0	153	383	963	1564	1657
pure and blended biodiesel	0	145	203	141	101	107
pure and blended biodiesel	0	8	179	823	1463	1486
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	46,0	49,0	48,3	43,8	45,8	41,7
Final energy consumption 2020-2030 [Mtoe]	35,0	33,2	34,0	31,8	31,5	30,9
Primary Energy Intensity 2020-2030 [toe/M€15]	140	131	118	96	92	86
Energy Intensity (GAE/GDP2015) [toe/M€15]	145	137	123	103	100	93
Energy per Capita (GIC/pop) [kgoe/capita]	5384	5705	5402	4826	4860	4377
Final Electricity per Capita [KWh/capita]	16393	17582	15903	16631	16465	15864
Import Dependency [%]	40,4%	39,5%	39,5%	31,2%	31,3%	35,4%
of Solid fossil fuels	105,4%	105,9%	113,7%	97,4%	103,2%	100,3%
of Hard Coal	107,7%	104,3%	115,2%	99,6%	98,1%	101,5%
of Oil and petroleum products	110,4%	117,4%	106,3%	136,7%	127,5%	166,9%
of Crude and NGL	100,6%	100,4%	99,0%	103,6%	100,0%	106,1%
of Natural Gas	100,0%	100,0%	100,0%	100,0%	101,8%	101,6%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		40,27%	46,60%	52,22%	55,79%	60,12%
RE-T - Renewable energy in Transport [%]		6,60%	9,63%	21,49%	30,31%	31,85%
RES-E - Renewable Electricity Generation [%]		50,90%	55,77%	65,73%	71,23%	74,49%
RES-H&C - Renewable Heating and Cooling [%]		49,84%	58,48%	63,24%	64,39%	66,38%
Greenhouse gas emissions [Mt CO₂]						
CO ₂ emissions - National total*	56,8	56,0	55,4	45,9	43,6	37,4
GHG emissions - National total*	70,3	68,8	66,9	56,3	53,5	47,2
Main Emissions Indicators						
GHG national total emissions [index 1990=100]	96,6%	94,5%	91,8%	77,3%	73,5%	64,9%
Total GHG per capita [t CO ₂ eq/capita]	7,9	7,6	7,2	5,8	5,2	4,6

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

A ppendices



A ppendices

Summary

Appendices – Methodology	240
Appendix 1 - Country Nomenclature	240
Appendix 2 - Main Energy Flows in Eurostat Energy Balances- EN	241
Appendix 3 - Main Energy Products in Eurostat Energy Balances- EN	242
Appendix 4 - Symbols and Abbreviations	244
Appendix 5 - Conversion Factors	245
Appendix 6 - Average calorific values	246
Appendix Glossary	247
Appendix 7 - Glossary	247
Appendix Notes	258
Appendix 8 - Notes	258
Notes	263

Appendices – Methodology

Appendix 1 Country Nomenclature

Interinstitutional Style Guide (ISG) Country Code	ISG Short Name EN	ISG Short Name, Source Language*	ISG Protocol Order	ISO 3166 Alpha-2 Country Codes
BE	Belgium	Belgique / België	1	BE
BG	Bulgaria	Bulgaria*	2	BG
CZ	Czechia	Česko	3	CZ
DK	Denmark	Danmark	4	DK
DE	Germany	Deutschland	5	DE
EE	Estonia	Eesti	6	EE
IE	Ireland	Éire / Ireland	7	IE
EL	Greece	Elláda*	8	GR
ES	Spain	España	9	ES
FR	France	France	10	FR
HR	Croatia	Hrvatska	11	HR
IT	Italy	Italia	12	IT
CY	Cyprus	Kýpros*	13	CY
LV	Latvia	Latvija	14	LV
LT	Lithuania	Lietuva	15	LT
LU	Luxembourg	Luxembourg	16	LU
HU	Hungary	Magyarország	17	HU
MT	Malta	Malta	18	MT
NL	Netherlands	Nederland	19	NL
AT	Austria	Österreich	20	AT
PL	Poland	Polska	21	PL
PT	Portugal	Portugal	22	PT
RO	Romania	România	23	RO
SI	Slovenia	Slovenija	24	SI
SK	Slovakia	Slovensko	25	SK
FI	Finland	Suomi / Finland	26	FI
SE	Sweden	Sverige	27	SE
UK	United Kingdom	United Kingdom	28	GB
EU27_2020	European Union - 27 countries (from 2020)			

* Latin transliteration

Interinstitutional Style Guide (ISG): <http://publications.europa.eu/code/>

Eurostat Website: <http://ec.europa.eu/eurostat/>

ISO 3166 Country Codes Maintenance Agency: <https://www.iso.org/iso-3166-country-codes.html>

Appendix 2

Main Energy Flows in Eurostat Energy Balances-EN

ESTAT Energy Database - EN	
Code	Dissemination Label
PPRD	Primary production
RCV_RCY	Recovered & recycled products
IMP	Imports
EXP	Exports
STK_CHG	Change in stock
NRGSUP	Total energy supply
INTMARB	International maritime bunkers
GIC	Gross inland consumption
INTAVI	International aviation
GAE	Gross available energy
INTMARB	International maritime bunkers
TI_E	Transformation input
TO	Transformation output
NRG_E	Energy sector
DL	Distribution losses
AFC	Available for final consumption
FC_NE	Final non-energy consumption
FC_E	Final energy consumption
FC_IND_E	Final energy consumption - Industry
FC_IND_IS_E	Iron & steel
FC_IND_CPC_E	Chemical & petrochemical
FC_IND_NFM_E	Non-ferrous metals
FC_IND_NMM_E	Non-metallic minerals
FC_IND_TE_E	Transport equipment
FC_IND_MAC_E	Machinery
FC_IND_MQ_E	Mining & quarrying
FC_IND_FBT_E	Food, beverages & tobacco
FC_IND_PPP_E	Paper, pulp & printing
FC_IND_WP_E	Wood & wood products
FC_IND_CON_E	Construction
FC_IND_TL_E	Textile & leather
FC_IND_NSP_E	Not elsewhere specified (industry)
FC_TRA_E	Transport
FC_TRA_RAIL_E	Rail
FC_TRA_ROAD_E	Road
FC_TRA_DAVI_E	Domestic aviation
FC_TRA_DNAVI_E	Domestic navigation
FC_TRA_PIPE_E	Pipeline transport
FC_TRA_NSP_E	Not elsewhere specified (transport)
FC_OTH_E	Other
FC_OTH_CP_E	Commercial & public services
FC_OTH_HH_E	Households
FC_OTH_AF_E	Agriculture & forestry
FC_OTH_FISH_E	Fishing
FC_OTH_NSP_E	Not elsewhere specified (other)
STATDIFF	Statistical differences

Source: Energy Balance Guide: <https://ec.europa.eu/eurostat/web/energy/data/energy-balances>

Appendix 3 Main Energy Products in Eurostat Energy Balances- EN

ESTAT Energy Database - EN	
Code	Dissemination label
TOTAL	Total
C0000X0350-0370	Solid fossil fuels
C0110	Anthracite
C0121	Coking coal
C0129	Other bituminous coal
C0210	Sub-bituminous coal
C0220	Lignite
C0320	Patent fuels
C0311	Coke oven coke
C0312	Gas coke
C0340	Coal tar
C0330	Brown coal briquettes
C0350-0370	Manufactured gases
C0360	Gas works gas
C0350	Coke oven gas
C0371	Blast furnace gas
C0379	Other recovered gases
P1000	Peat and peat products
P1100	Peat
P1200	Peat products
S2000	Oil shale and oil sands
04000XBIO	Oil and petroleum products
04100_TOT	Crude oil
04200	Natural gas liquids
04300	Refinery feedstocks
04400X4410	Additives and oxygenates (excluding biofuel portion)
04500	Other hydrocarbons
04610	Refinery gas
04620	Ethane
04630	Liquefied petroleum gas
04652XR5210B	Motor gasoline (excluding biofuel portion)
04651	Aviation gasoline
04653	Gasoline-type jet fuel
04661XR5230B	Kerosene-type jet fuel (excluding biofuel portion)
04669	Other kerosene
04640	Naphtha
04671XR5220B	Gas oil and diesel oil (excluding biofuel portion)
04680	Fuel oil
04691	White spirit and special boiling point industrial spirits
04692	Lubricants
04695	Bitumen
04694	Petroleum coke
04693	Paraffin waxes

O4699	Other oil products n.e.c.
G3000	Natural gas
RA000	Renewables and biofuels
RA100	Hydro power
RA500	Tide, wave and ocean
RA300	Wind power
RA420	Solar photovoltaic
RA410	Solar thermal
RA200	Geothermal
R5110-5150_W6000RI	Primary solid biofuels
R5160	Charcoal
R5300	Biogases
W6210	Renewable municipal waste
R5210P	Pure biogasoline
R5210B	Blended biogasoline
R5220P	Pure biodiesels
R5220B	Blended biodiesels
R5230P	Pure bio jet kerosene
R5230B	Blended bio jet kerosene
R5290	Other liquid biofuels
RA600	Ambient heat (heat pumps)
W6100_6220	Non-renewable waste
W6100	Industrial waste (non-renewable)
W6220	Non-renewable municipal waste
N900H	Nuclear heat
H8000	Heat
E7000	Electricity

Appendix 4 Symbols and Abbreviations

%	per cent
€	euro
0	zero or figure less than half of the unit represented
bbl	barrel
bcm	billion cubic meters
Blank	data not available
CHP	combined heat & power
CO ₂	carbon dioxide
DG	Directorate-General of the European Commission
EEA	European Environment Agency
equiv.	equivalent
ESTAT	Eurostat, Statistical Office of the European Union
GCV	gross calorific value
GDP	gross domestic product
GHG	greenhouse gas
GJ	gigajoule
IEA	International Energy Agency
k	thousand, kilo
kgoe	kilogram of oil equivalent
ktoe	kiloton of oil equivalent
kton	kiloton
kWh	kilowatt hour
LPG	liquefied petroleum gas
M€ '2010	millions of euro, chain-linked volumes, reference year 2010, at 2010 exchange rates
m ³	cubic meter
Mio	million
MS	European Union Member State
MSW	municipal solid waste
Mtoe	million ton of oil equivalent
M	million, mega
MW	megawatt
MWh	megawatt hour
NCV	net calorific value
NGL	natural gas liquid
p/cap	per capita
PJ	petajoule
PV	photovoltaic
RES	renewable energy
RES-E	renewable energy - electricity generation
RES-H&C	renewable energy - heating and cooling
RES-T	renewable energy - transport
SI Units	International System of Units
TJ	terajoule
toe	ton of oil equivalent
ton	metric ton, metric tonne, mt
TPES	Total Primary Energy Supply
TWh	terawatt hour
UNFCCC	United Nations Framework Convention on Climate Change
VAT	value added tax

Appendix 5 Conversion Factors

ENERGY

		TO :		
		TJ	Mtoe	GWh
		multiply by		
FROM :	TERAJOULE (TJ)	1	1 / 41868	/ 3.6
	Million ton of oil equivalent (Mtoe)	X 41868	1	X 11630
	Gigawatt-hour (GWh)	X 3.6	/ 11630	1

VOLUME

		TO :			
		l	bbl	gal US	gal UK
		multiply by			
FROM :	Litre (l)	1	0.6290 x 10 ⁻²	0.2642	0.2200
	Barrel (bbl)	158.99	1	42	34.9723
	U.S. gallon (gal US)	3.7854	0.2381 x 10 ⁻¹	1	0.8327
	U.K. gallon (gal UK)	4.5461	0.2859 x 10 ⁻¹	1.2009	1

MASS

		TO :		
		t	lt	st
		multiply by		
FROM :	Ton, Tonne (t)	1	0.9842	1.1023
	Long ton (lt) U.K.	1.0160	1	1.1200
	Short ton (st) U.S.	0.9072	0.8929	1

Appendix 6 Average calorific values*

Product	Net calorific value (TJ/kt)
Anthracite	26.7
Coking coal	28.2
Other bituminous coal	25.8
Sub-bituminous coal	18.9
Lignite	11.9
Patent fuels	20.7
Coke oven coke	28.2
Gas coke	28.2
Coal tar	28.0
Brown coal briquettes**	19.0
Peat	9.76
Peat products*	16.0
Oil shale and oil sands	8.9
Crude oil	42.3
Natural gas liquids	44.2
Refinery feedstocks	43.0
Additives and oxygenates**	42.5
Other hydrocarbons (w/o bio)**	42.5
Refinery gas	49.5
Ethane	46.4
Liquefied petroleum gases	47.3
Motor gasoline (w/o bio)	44.3
Aviation gasoline**	44.3
Gasoline-type jet fuel**	44.3
Kerosene-type jet fuel**	44.1
Other kerosene	43.8
Naphtha	44.5
Gas oil and diesel oil (w/o bio)	43.0
(Residual) Fuel oil	40.4
White spirit and SPB	40.2
Lubricants	40.2
Bitumen	40.2
Petroleum coke	32.5
Paraffin waxes	40.2
Other oil products	40.2
Charcoal	29.5
Pure biogasoline	27.0
Blended biogasoline	27.0
Pure biodiesels	37.0
Blended biodiesels	37.0
Pure bio jet kerosene**	44.0
Blended bio jet kerosene**	44.0
Other liquid biofuels	27.4

*If no calorific values are provided by a reporting country, Eurostat uses the net calorific values enacted in [Commission Implementing Regulation \(EU\) 2018/2066](#) on the monitoring and reporting of greenhouse gas emissions pursuant to [Directive 2003/87/EC](#) of the European Parliament and of the Council.

**Eurostat estimates for products not covered by the Commission Regulation (EU) No 601/2012. These estimates take into account the [Commission Decision 2007/589/EC](#) establishing guidelines for the monitoring and reporting of greenhouse gas emissions pursuant to [Directive 2003/87/EC](#) of the European Parliament and of the Council.

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 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.

GHG GDP INTENSITY

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

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.

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.

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.

INHABITANTS

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

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.

Name	Long Scale Value in Scientific notation	Short Scale Value in Scientific notation
million	10^6	10^6
billion	10^{12}	10^9
trillion	10^{18}	10^{12}
	to the next: multiply by 1 000 000	to the next: multiply by 1 000

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 IMPORTS

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

NET ELECTRICITY GENERATION

It is the amount of gross generation a generator produces less the electricity used to operate the plant.

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 [O4652XR5210B], 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 20202-2030] = [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 [R5110-5150_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].

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.

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.

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 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-TO-liquids plants [TO_GTL_E] and others not elsewhere specified [TO_NSP_E].

TRANSFORMATION LOSSES

The difference between transformation input and transformation output constitutes transformation losses.

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.

Notes

Appendix 8 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, feed-stock, 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 37-38

Production comprises primary production [PPRD] and products recovered & recycled [RCV_RCY].

2.1.2, PAGES 40-41

Net imports correspond to the difference between imports [IMP] and exports [EXP].

2.1.3, PAGES 43-44

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 49-54

Solid fossil fuels - See Glossary

2.2.2, PAGES 54-59

Total oil and petroleum products – see glossary. Crude oil and NGL is a subgroup containing only crude oil [O4100_TOT] and natural gas liquids [O4200] codes.

2.3, PAGES 71-77

See, glossary energy import dependency, appendix 12.

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 energy consumption covers energy supplied to the final consumer's door for all energy uses. It does not include final non-energy consumption.

2.5.3, PAGE 86

Final non-energy consumption covers the use of energy products in non-energy purposes.

2.6.1, PAGE 90

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, PAGE 93

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, PAGE 99

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

2.7.2-2.7.8, PAGES 101-109

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 103-105

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 116-117

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 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 2000 and 5000 litres while those for low sulphur fuel oil are for monthly deliveries of less than 2000 tonnes or annual deliveries of less than 24000 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 141-149

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.

3.3, PAGES 153-156

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.

3.4, PAGE 157

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.

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 is 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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