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EU energy in figures

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POCKETBOOK
2020

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 of five parts:

- Part 1. Overview of main data on World and European Union energy
- Part 2. Main energy statistics and indicators for the European Union and its Member States
- Part 3. Socio-economic indicators in the European Union
- Part 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://ec.europa.eu/energy/en/data/energy-statistical-pocketbook>

Recommended sources of data:

European Commission websites:

DG Energy

Pocketbook and energy statistical datasheets:

https://ec.europa.eu/energy/data-analysis/energy-statistical-pocketbook_en

Energy data & analysis: <http://ec.europa.eu/energy/en/data-analysis>

Eurostat

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

DG Economic and Financial Affairs

AMECO: http://ec.europa.eu/economy_finance/db_indicators/ameco/index_en.htm

DG Climate Action

Climate strategies, targets and progress reports:

http://ec.europa.eu/clima/policies/strategies/index_en.htm

Websites of other EU bodies and international organisations:

European Environment Agency

Data and maps: <http://www.eea.europa.eu/>

International Energy Agency

Statistics and balances: <http://www.iea.org/statistics/>

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

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1 Overview



Overview

The background is a vibrant orange gradient. In the lower half, there is a faint, isometric illustration of a city skyline with various skyscrapers. In the foreground, centered, is a large, 3D blue cube with a yellow number '1' on its top face. The cube has a slight shadow and a white highlight on its edges, giving it a three-dimensional appearance.

1

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1.1 Energy in the World (Overview)

1.1.1 World Energy Production by Region

(Mtoe)

	2000	2005	2010	2015	2017	2018
EU27_2020	678	706	697	654	634	628
China	1124	1671	2235	2514	2451	2562
United States	1667	1631	1724	2022	1993	2173
Middle East	1324	1516	1627	1888	2013	2040
Asia*	1062	1252	1492	1531	1579	1631
Russian Federation	978	1203	1280	1334	1429	1484
Africa	877	1075	1158	1100	1141	1169
Rest of the World	2315	2496	2589	2698	2728	2736
World	10025	11551	12801	13739	13968	14421

TOTAL 2018: 14421 Mtoe

EU27_2020

China

United States

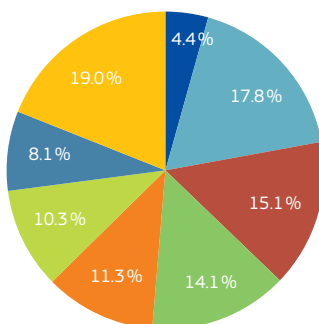
Middle East

Asia*

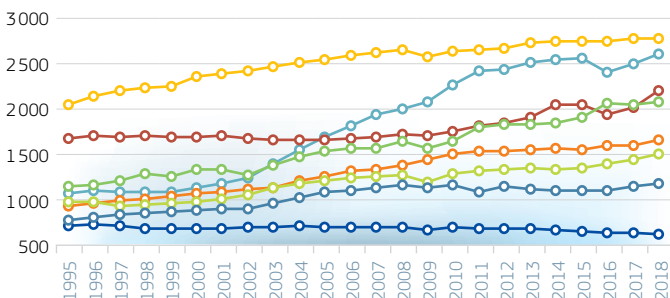
Russian Federation

Africa

Rest of the World



Mtoe



* non OECD and OECD Asia, excluding China.

Source: IEA Statistics, August 2020

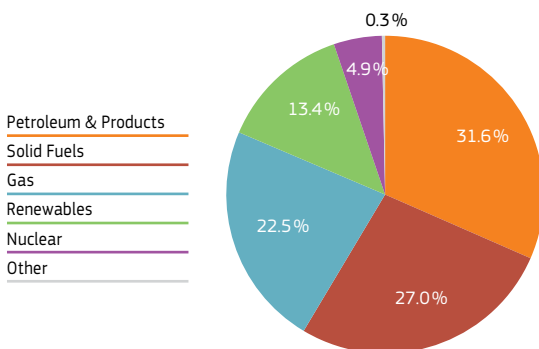
Methodology and Notes: [See Appendices](#)

1.1.2 World Energy Production by Fuel

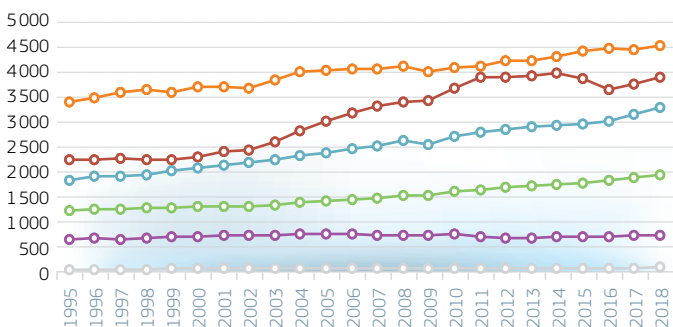
(Mtoe)

	2000	2005	2010	2015	2017	2018
Petroleum and Products	3708	4048	4093	4419	4461	4553
Solid Fuels	2278	2998	3663	3878	3768	3894
Gas	2064	2372	2716	2966	3137	3293
Renewables	1278	1389	1577	1766	1870	1928
Nuclear	675	722	719	670	687	707
Other	21	23	33	40	45	47
Total	10025	11551	12801	13739	13968	14421

TOTAL 2018: 14421 Mtoe



Mtoe



Source: IEA Statistics, August 2020

Methodology and Notes: [See Appendices](#)

1.1.3 World Total Energy Supply by Region

(Mtoe)

	2000	2005	2010	2015	2017	2018
EU27_2020	1 471	1 573	1 527	1 408	1 443	1 428
China	1 143	1 794	2 550	3 006	3 079	3 211
United States	2 274	2 319	2 217	2 186	2 155	2 231
Asia*	1 762	1 980	2 287	2 465	2 588	2 656
Russian Federation	619	652	689	693	729	759
Africa	491	585	686	774	814	837
Middle East	353	469	608	718	754	760
World bunkers**	274	318	358	381	412	422
Rest of the World	1 646	1 804	1 923	1 952	1 976	1 979
World	10 034	11 494	12 845	13 583	13 951	14 282

TOTAL 2018: 14 282 Mtoe

EU27_2020

China

United States

Asia*

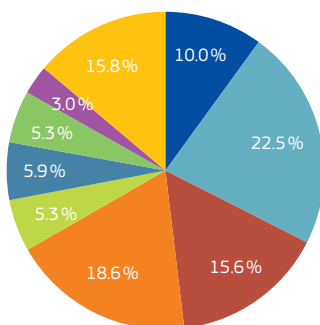
Russian Federation

Africa

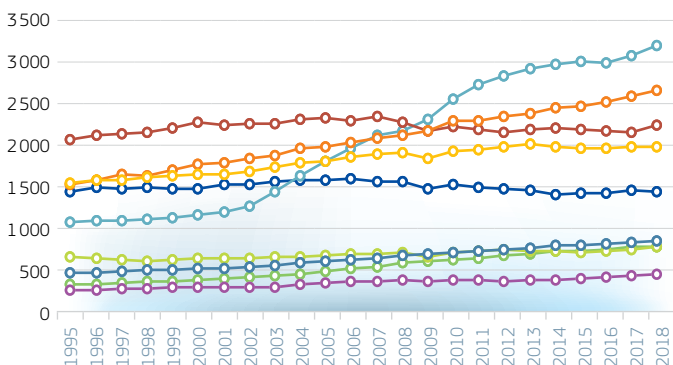
Middle East

World bunkers**

Rest of the World



Mtoe



* non OECD and OECD Asia, excluding China.

** International aviation and international navigation.

Source: IEA Statistics, August 2020

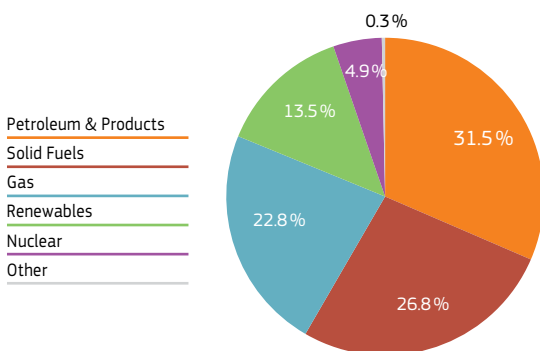
Methodology and Notes: [See Appendices](#)

1.1.4 World Total Energy Supply by Fuel

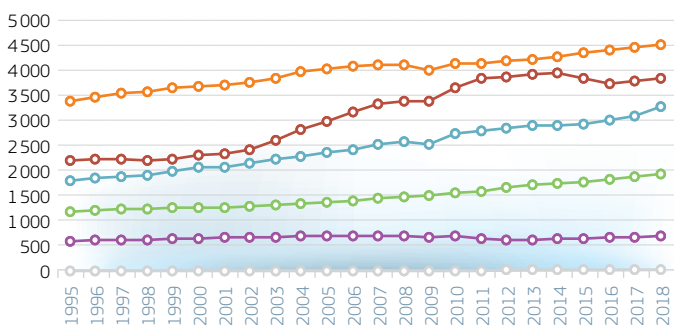
(Mtoe)

	2000	2005	2010	2015	2017	2018
Petroleum and Products	3669	4010	4127	4328	4457	4497
Solid Fuels	2317	2991	3650	3843	3787	3838
Gas	2071	2360	2736	2929	3099	3262
Renewables	1279	1390	1580	1772	1875	1931
Hydro*	225	252	296	335	350	362
Geothermal*	52	53	62	77	86	92
Solar/Wind/Other*	8	17	48	127	171	194
Biofuels and Waste*	1015	1089	1205	1271	1311	1327
Nuclear	675	722	719	670	687	707
Other	22	22	33	42	45	47
Total	10034	11494	12845	13583	13951	14282

TOTAL 2018: 14282 Mtoe



Mtoe



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

Source: IEA Statistics, August 2020

Methodology and Notes: [See Appendices](#)

1.1.5 World Total Final Consumption by Region

(Mtoe)

	2000	2005	2010	2015	2017	2018
EU27_2020	1 028	1 093	1 070	994	1 028	1 023
China	791	1 235	1 653	1 970	2 006	2 067
United States	1 546	1 563	1 513	1 511	1 522	1 594
Asia*	1 220	1 369	1 554	1 687	1 778	1 795
Africa	365	433	497	568	593	612
Russian Federation	418	412	447	453	488	514
Middle East	241	313	416	492	512	519
World bunkers**	274	318	358	381	412	422
Rest of the World	1 149	1 246	1 329	1 354	1 378	1 391
World	7 032	7 980	8 838	9 408	9 717	9 938

TOTAL 2018: 9 938 Mtoe

EU27_2020

China

United States

Asia*

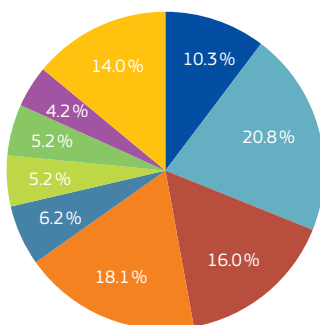
Africa

Russian Federation

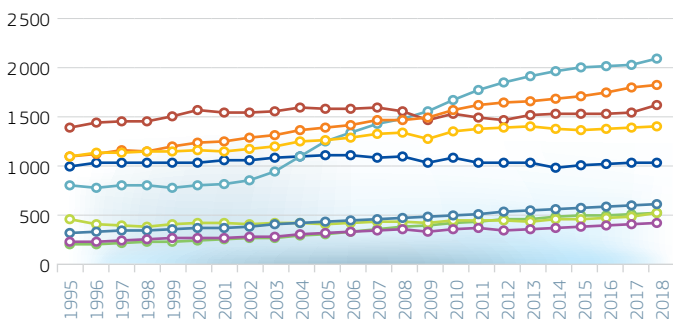
Middle East

World bunkers**

Rest of the World



Mtoe



* non OECD and OECD Asia, excluding China.

** International aviation and international navigation.

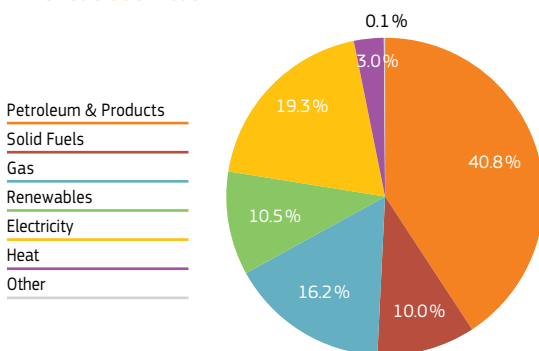
Source: IEA Statistics, August 2020

Methodology and Notes: [See Appendices](#)

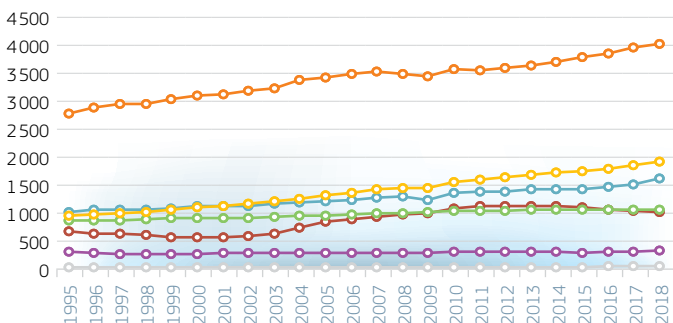
1.1.6 World Total Final Consumption by Fuel (Mtoe)

	2000	2005	2010	2015	2017	2018
Petroleum and Products	3119	3445	3597	3825	3990	4051
Solid Fuels	542	825	1058	1097	1017	994
Gas	1119	1195	1346	1423	1514	1611
Renewables	904	946	1015	1040	1047	1048
Electricity	1092	1301	1538	1741	1845	1919
Heat	248	260	275	272	291	301
Other	7	7	8	10	12	13
Total	7032	7980	8838	9408	9717	9938

TOTAL 2018: 9938 Mtoe



Mtoe



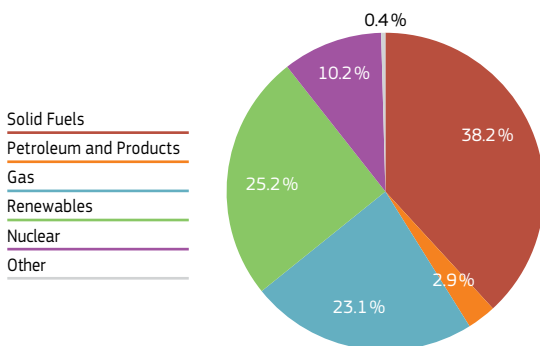
Source: IEA Statistics, August 2020

Methodology and Notes: [See Appendices](#)

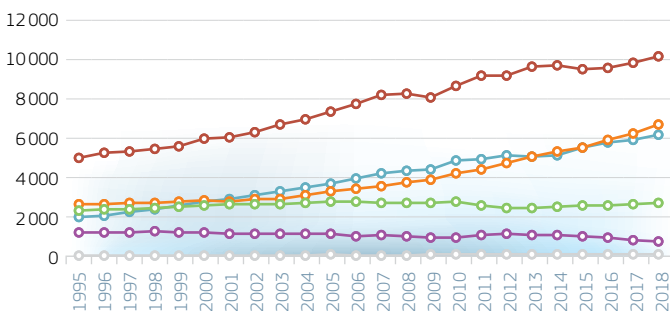
1.1.7 World Electricity Generation by Fuel (TWh)

	2000	2005	2010	2015	2017	2018
Solid Fuels	5 994	7 317	8 662	9 534	9 860	10 160
Petroleum and Products	1 184	1 129	970	1 028	846	784
Gas	2 775	3 706	4 842	5 526	5 889	6 150
Renewables	2 829	3 296	4 203	5 522	6 268	6 700
Hydro*	2 613	2 935	3 448	3 894	4 071	4 214
Solar/Wind/Other*	54	140	408	1 126	1 622	1 871
Biofuels and Waste*	163	228	367	517	598	637
Geothermal*	52	58	68	81	85	89
Nuclear	2 591	2 768	2 756	2 570	2 636	2 710
Other	54	67	90	100	112	115
Total	15 427	18 283	21 524	24 280	25 612	26 619

TOTAL 2018: 26 619 TWh



TWh



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

Source: IEA Statistics, August 2020

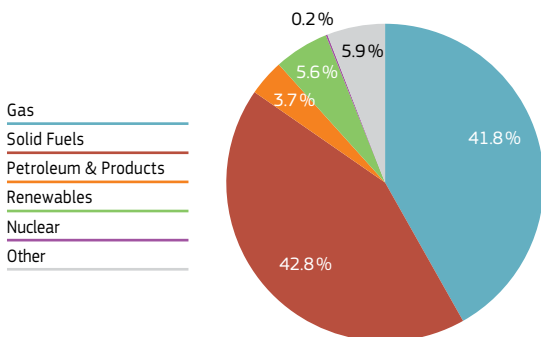
Methodology and Notes: [See Appendices](#)

1.1.8 World Heat Generation by Fuel

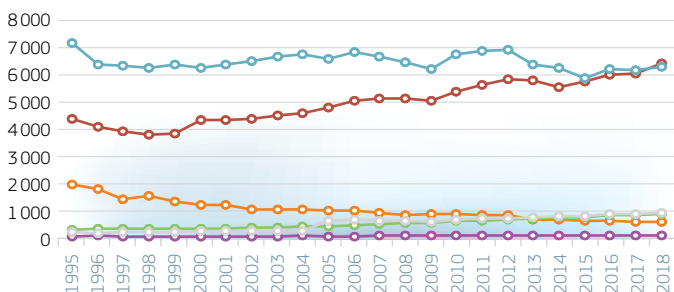
(PJ)

	2000	2005	2010	2015	2017	2018
Gas	6240	6607	6777	5892	6172	6284
Solid Fuels	4332	4787	5360	5764	6031	6431
Petroleum and Products	1160	972	844	595	528	555
Renewables	296	398	585	726	818	838
Geothermal*	18	24	26	34	40	44
Solar/Wind/Other*	11	385	347	371	423	439
Biofuels and Waste*	414	535	786	961	1087	1119
Nuclear	19	21	27	26	27	26
Other	202	602	640	740	855	889
Total	12249	13386	14233	13742	14430	15023

TOTAL 2018: 15023 PJ



PJ



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

Source: IEA Statistics, August 2020

Methodology and Notes: [See Appendices](#)

1.1.9 World CO₂ Emissions by Region

(Mio ton CO₂)

	2000	2005	2010	2015	2017	2018
EU27_2020	3 266	3 391	3 136	2 826	2 854	2 799
China	3 140	5 449	7 873	9 137	9 290	9 571
United States	5 730	5 703	5 352	4 929	4 761	4 921
Asia*	3 646	4 159	4 921	5 695	5 978	6 168
Middle East	880	1 148	1 493	1 748	1 781	1 773
Russian Federation	1 474	1 482	1 529	1 534	1 537	1 587
Africa	663	869	1 025	1 166	1 204	1 245
World bunkers**	855	991	1 119	1 184	1 281	1 312
Rest of the World	3 586	3 887	4 134	4 144	4 152	4 139
World	23 241	27 078	30 582	32 366	32 837	33 513

TOTAL 2018: 33 513 Mio ton CO₂

EU27_2020

China

United States

Asia*

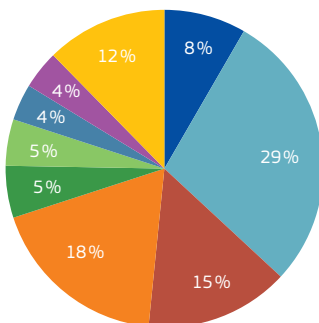
Middle East

Russian Federation

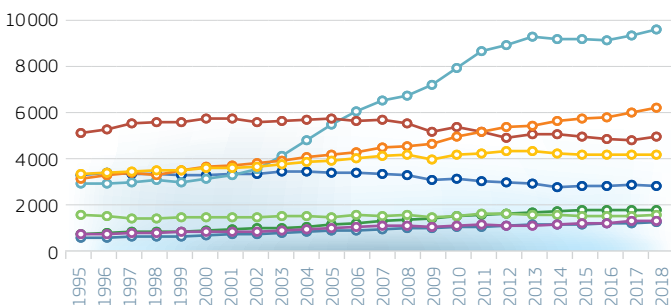
Africa

World bunkers**

Rest of the World



Mio ton CO₂



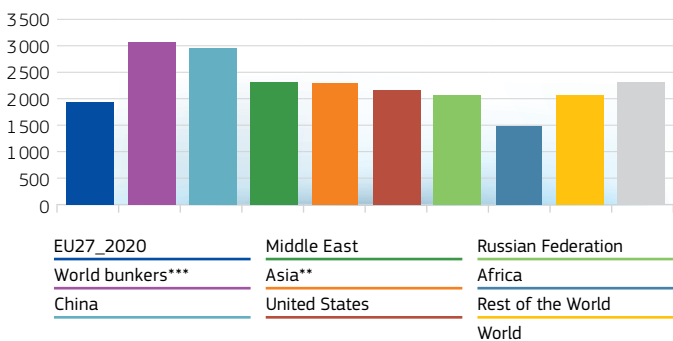
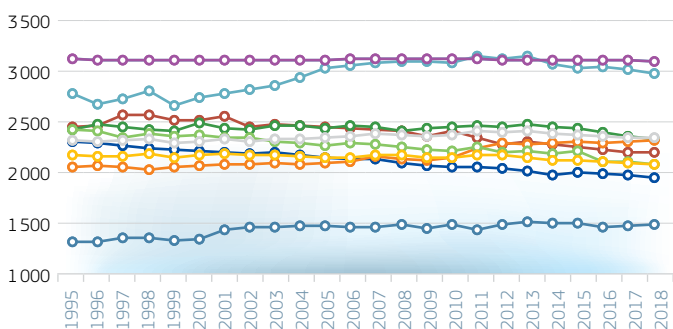
* non OECD and OECD Asia, excluding China.

** International aviation and international navigation.

Sources: IEA Statistics, May 2020, estimates of world CO₂ emissions from fuel combustion
Methodology and Notes: [See Appendices](#)

1.1.10 World CO₂ Intensity* by Region(Kg CO₂ per toe – Average)

	2000	2005	2010	2015	2017	2018
EU27_2020	2 220	2 155	2 054	2 007	1 978	1 960
World bunkers***	3 120	3 120	3 124	3 110	3 109	3 107
China	2 746	3 037	3 088	3 039	3 017	2 981
Middle East	2 492	2 448	2 453	2 437	2 360	2 333
Asia**	2 069	2 100	2 152	2 311	2 309	2 322
United States	2 520	2 459	2 414	2 254	2 209	2 206
Russian Federation	2 380	2 274	2 219	2 215	2 109	2 090
Africa	1 351	1 483	1 495	1 507	1 479	1 488
Rest of the World	2 178	2 154	2 150	2 123	2 102	2 092
World	2 316	2 356	2 381	2 383	2 354	2 347

WORLD AVERAGE 2018: 2 347 Kg CO₂ per toeKg CO₂ per toe* CO₂ Emissions from Fuel Combustion per Unit of Total Energy Supply.

** non OECD and OECD Asia, excluding China and Middle East.

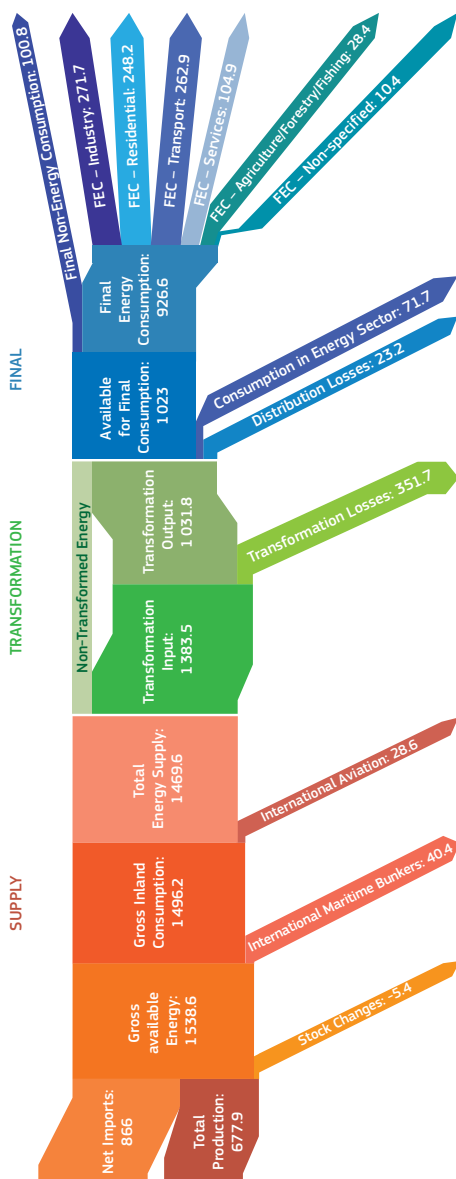
*** International aviation and international navigation.

Source: IEA Statistics, August 2020.

Methodology and Notes: [See Appendices](#)

1.2 Energy in the EU (Overview)

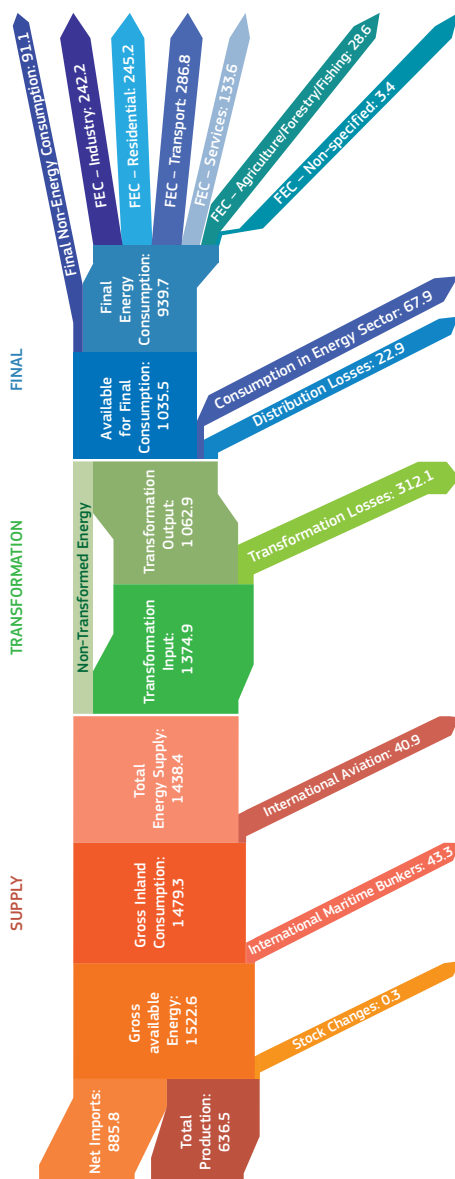
1.2.1 EU27_2020 Energy Flow – 2000 (Mtoe)



Source: Eurostat, May 2020
Methodology and Notes: [See Appendices](#)

1.2.2 EU27_2020 Energy Flow – 2018

(Mtoe)



Source: Eurostat, May 2020

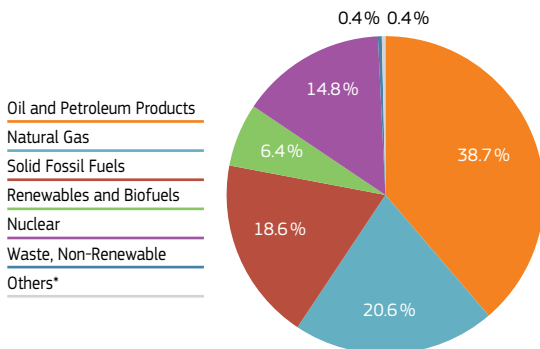
Methodology and Notes: [See Appendices](#)

1.2.3 EU27_2020 Gross Inland Consumption

ENERGY MIX (%) – PRIMARY PRODUCTS ONLY

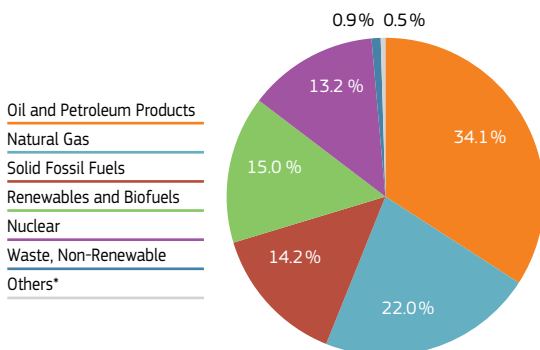
TOTAL PRIMARY PRODUCTS 2000: 1 497.4 Mtoe

(Total Primary and Secondary Products 2000: 1 498.2 Mtoe)



TOTAL PRIMARY PRODUCTS 2018: 1 477.9 Mtoe

(Total Primary and Secondary Products 2018: 1 479.3 Mtoe)

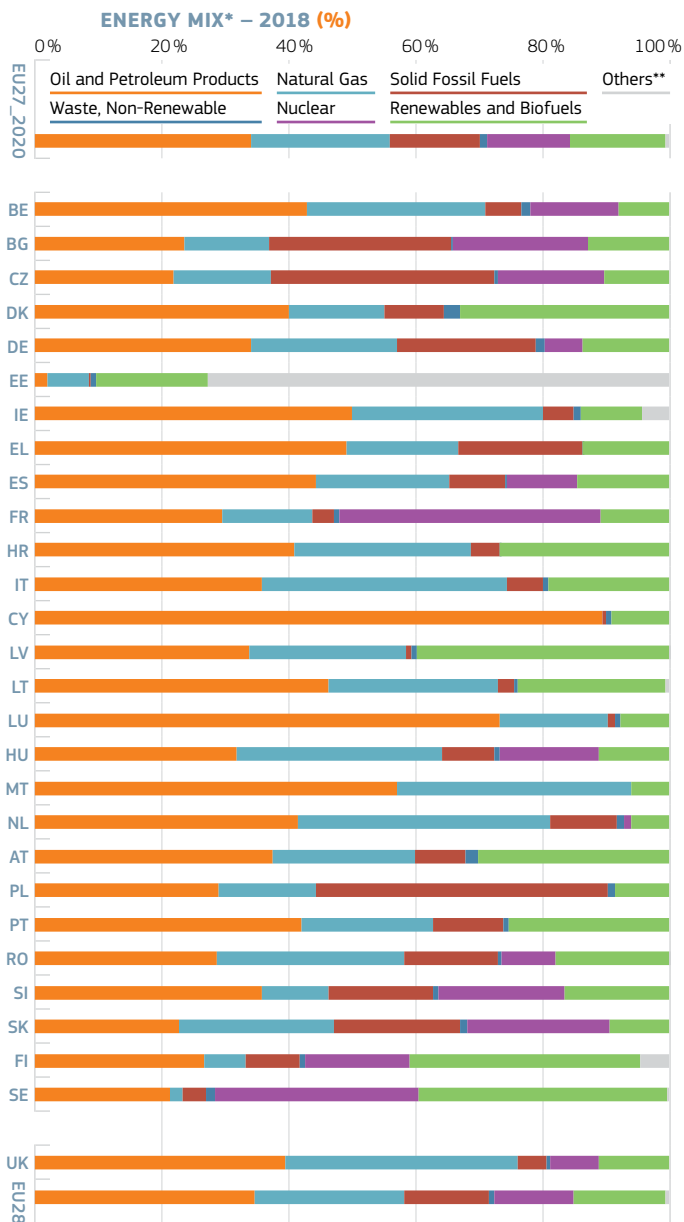


* Others = manufactured gases, peat and peat products, oil shale and oil sands.

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

1.2.3 EU27_2020 – Gross Inland Consumption



* Primary Products Only.

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

Source: Eurostat, May 2020

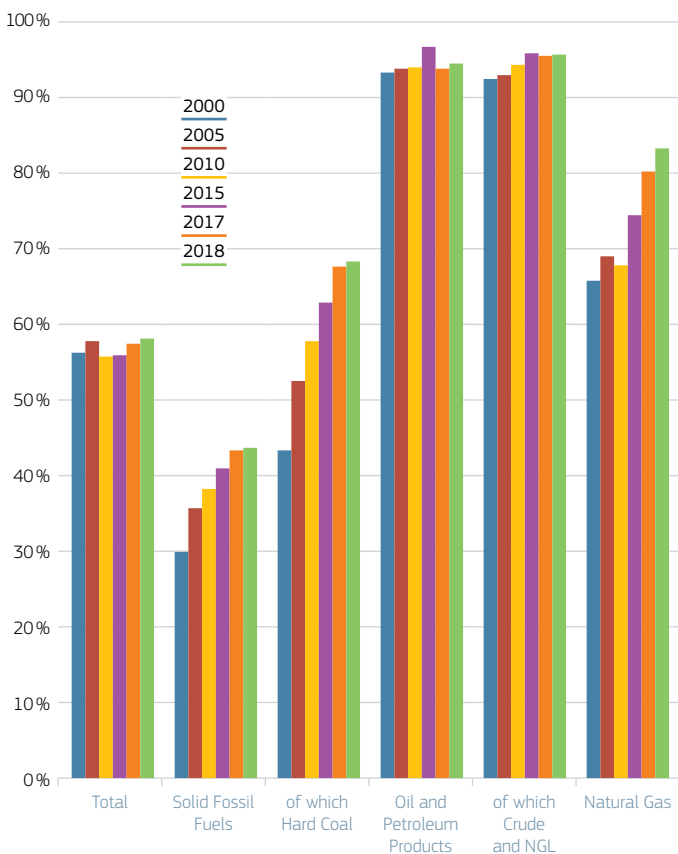
Methodology and Notes: [See Appendices](#)

1.2.4 EU27_2020 Energy Import Dependency

BY FUEL – (%)

	2000	2005	2010	2015	2017	2018
Total	56.3	57.8	55.7	56.0	57.5	58.2
Solid Fossil Fuels	29.8	35.7	38.2	40.9	43.3	43.6
of which Hard Coal	43.2	52.5	57.7	62.9	67.7	68.3
Oil and Petroleum Products	93.3	93.9	94.0	96.7	93.8	94.6
of which Crude and NGL	92.5	93.0	94.4	95.9	95.6	95.7
Natural Gas	65.7	69.0	67.8	74.5	80.2	83.2

2000-2018 (%)



Source: Eurostat, May 2020

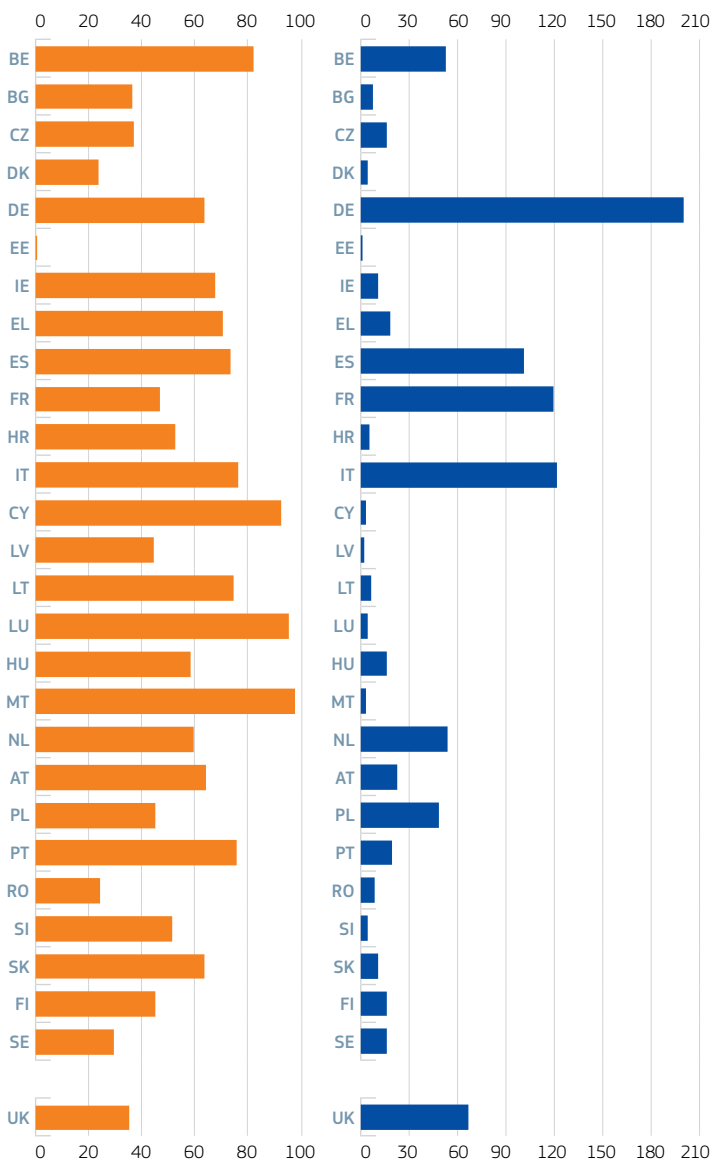
Methodology and Notes: [See Appendices](#)

1.2.5 EU27_2020 Energy Import Dependency – Net Imports

2018

ENERGY IMPORT DEPENDENCY (%)

NET IMPORTS (Mtoe)



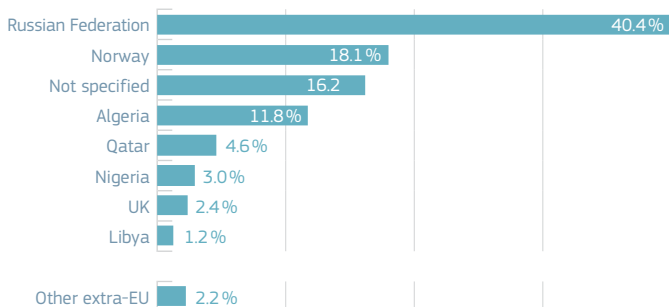
Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

1.2.6 EU27_2020 Imports by Country of Origin

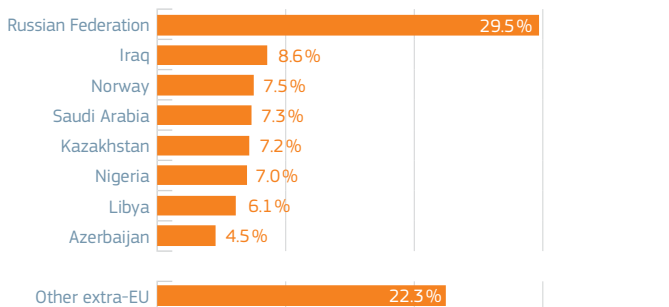
EU27_2020 IMPORTS* OF NATURAL GAS – 2018

Total extra-EU = 14 108 044.3 TJ-GCV (371.4bn m³)



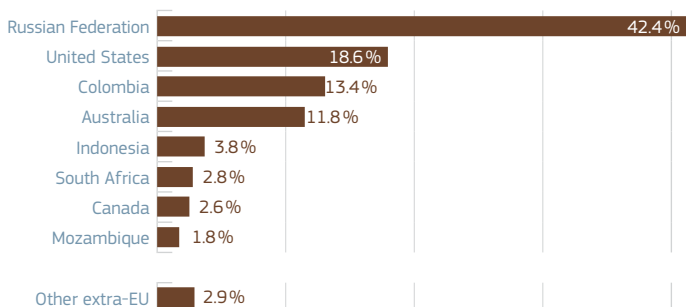
EU27_2020 IMPORTS* OF CRUDE OIL AND NGL – 2018

Total extra-EU = 514 810.7 kton



EU27_2020 IMPORTS* OF HARD COAL – 2018

Total extra-EU = 144 026.6 kton



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

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

1.3 EU 2020-2030 Targets

1.3.1 Renewable Energy (RE) Shares & Targets*

	2018 Renewable Energy Shares				Indicative 2018/2019	2020 RES Target	2030 RES Target
	RES Transport	RES Electricity	RES Heating and Cooling	Overall RES Share			
% EU27_2020	8.3	32.2	21.1	18.9	n.a.	20	32
BE	6.6	18.9	8.2	9.4	9.2	13.0	
BG	8.1	22.1	33.3	20.5	13.7	16.0	
CZ	6.5	13.7	20.6	15.2	10.6	13.0	
DK	6.6	62.4	46.7	35.7	25.5	30.0	
DE	7.9	38.0	13.6	16.5	13.7	18.0	
EE	3.3	19.7	53.7	30.0	22.6	25.0	
IE	7.2	33.2	6.5	11.1	11.5	16.0	
EL	3.8	26.0	30.2	18.0	14.1	18.0	
ES	6.9	35.2	17.5	17.5	16.0	20.0	
FR	9.0	21.2	21.8	16.6	18.6	23.0	
HR	3.9	48.1	36.5	28.0	17.4	20.0	
IT	7.7	33.9	19.2	17.8	12.9	17.0	
CY	2.7	9.4	36.8	13.9	9.5	13.0	
LV	4.7	53.5	55.9	40.3	37.4	40.0	
LT	4.3	18.4	45.6	24.4	20.2	23.0	
LU	6.5	9.1	8.8	9.1	7.5	11.0	
HU	7.7	8.3	18.1	12.5	10.0	13.0	
MT	8.0	7.7	23.4	8.0	6.5	10.0	
NL	9.6	15.1	6.1	7.4	9.9	14.0	
AT	9.8	73.1	34.0	33.4	30.3	34.0	
PL	5.6	13.0	14.8	11.3	12.3	15.0	
PT	9.0	52.2	41.2	30.3	27.3	31.0	
RO	6.3	41.8	25.4	23.9	21.8	24.0	
SI	5.5	32.3	31.6	21.1	21.9	25.0	
SK	7.0	21.5	10.6	11.9	11.4	14.0	
FI	14.9	36.8	54.6	41.2	34.7	38.0	
SE	29.7	66.2	65.4	54.6	45.8	49.0	
UK	6.5	30.9	7.5	11.0	10.2	15.0	
EU28	8.0	32.1	19.7	18.0	n.a.	20.0	

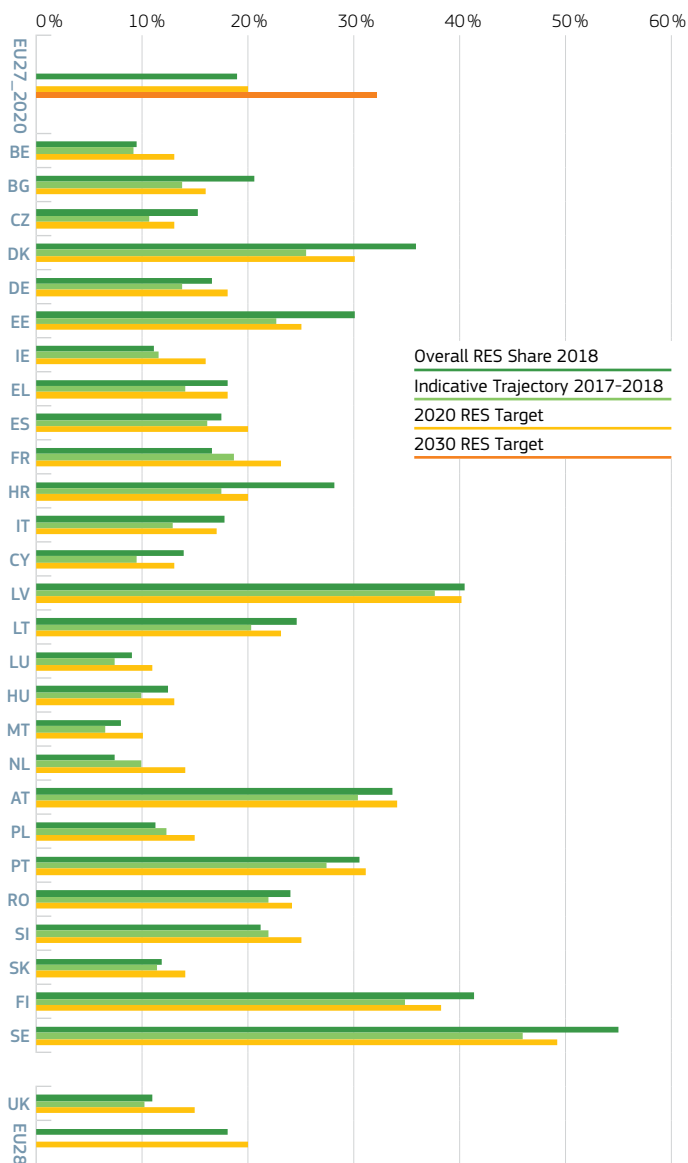
* In % of the Gross Final Energy Consumption.

Source: Eurostat-RES SHARES, March 2020

Methodology and Notes: [See Appendices](#)

1.3.1 Renewable Energy Shares & Targets*

OVERALL RENEWABLE ENERGY SHARE 2018 & TARGETS (%)



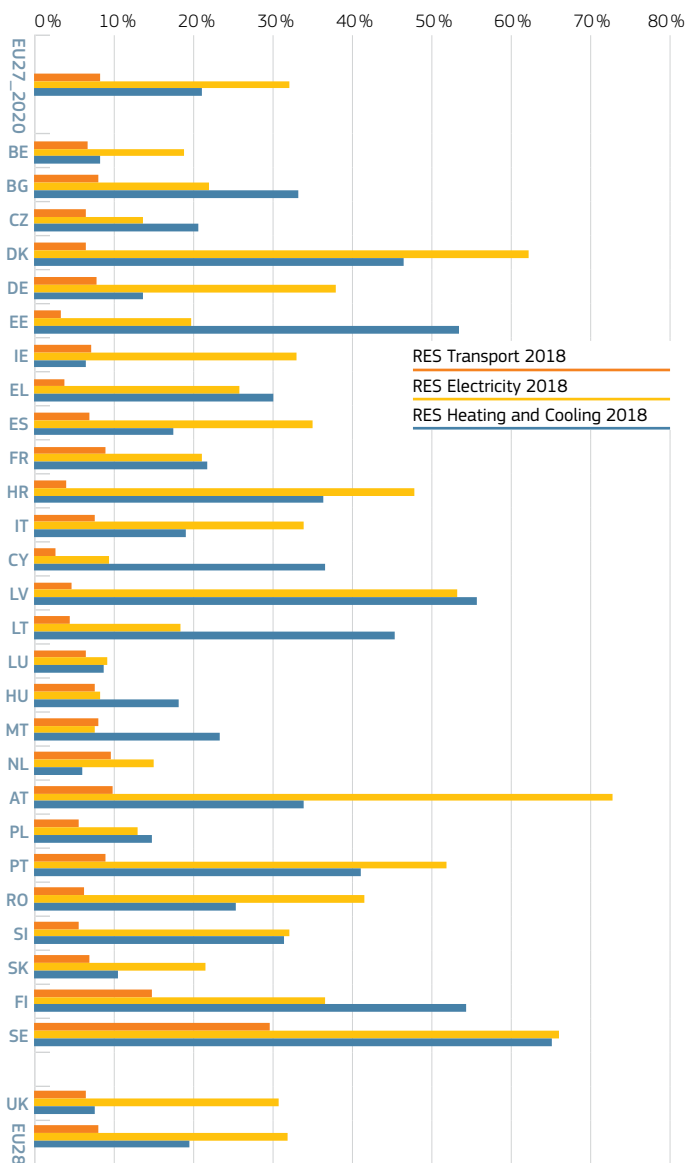
* In Gross Final Energy Consumption.

Source: Eurostat-RES SHARES, March 2020

Methodology and Notes: [See Appendices](#)

1.3.2 Renewable Energy Shares*

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



* In Gross Final Energy Consumption.

Source: Eurostat-RES SHARES, March 2020

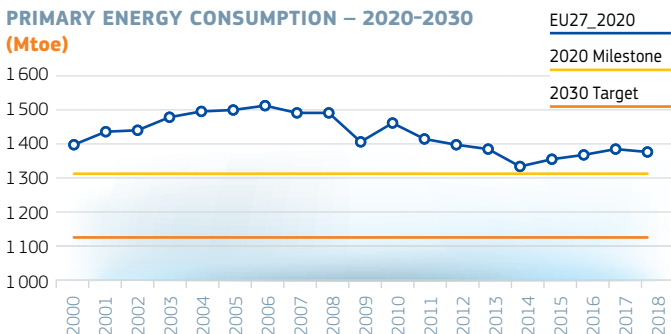
Methodology and Notes: [See Appendices](#)

1.3.3 EU 2020-2030 Milestones & Targets

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

	2005	2010	2015	2017	2018	2020 MILESTONE & TARGET	2030 TARGET
EU27_2020	1 497.6	1 458.4	1 353.7	1 385.0	1 375.7	1 312*	1 128
BE	51.6	54.1	46.1	49.1	46.8		
BG	19.2	17.4	18.0	18.3	18.3		
CZ	42.5	42.7	39.8	40.4	40.4		
DK	19.4	20.0	16.9	17.7	17.8		
DE	321.6	315.2	295.9	298.1	291.7		
EE	5.1	5.6	5.3	5.6	6.2		
IE	14.9	14.7	13.9	14.4	14.5		
EL	30.3	27.2	23.4	23.2	22.6		
ES	136.0	122.9	118.0	125.2	124.6		
FR	260.9	254.4	244.4	239.2	238.9		
HR	9.1	8.9	8.0	8.3	8.2		
IT	180.8	167.3	149.1	148.9	147.2		
CY	2.5	2.7	2.3	2.5	2.5		
LV	4.5	4.6	4.3	4.5	4.7		
LT	8.0	6.2	5.8	6.2	6.3		
LU	4.8	4.6	4.1	4.3	4.5		
HU	26.3	24.6	23.3	24.5	24.5		
MT	0.9	0.9	0.8	0.8	0.8		
NL	70.1	71.7	63.8	65.1	64.7		
AT	32.7	32.9	31.6	32.8	31.8		
PL	88.0	96.6	90.1	99.2	101.1		
PT	24.9	22.6	21.6	22.8	22.7		
RO	36.1	32.9	30.7	32.5	32.6		
SI	7.0	7.0	6.3	6.7	6.7		
SK	17.4	16.7	15.2	16.1	15.8		
FI	33.6	35.5	31.2	32.1	32.7		
SE	49.3	48.6	43.9	46.4	47.0		
UK	223.5	205.1	182.5	176.7	176.1		
EU28	1 721.0	1 663.5	1 536.2	1 561.7	1 551.8	1 483	

PRIMARY ENERGY CONSUMPTION – 2020-2030 (Mtoe)



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

Source: Eurostat, May 2020

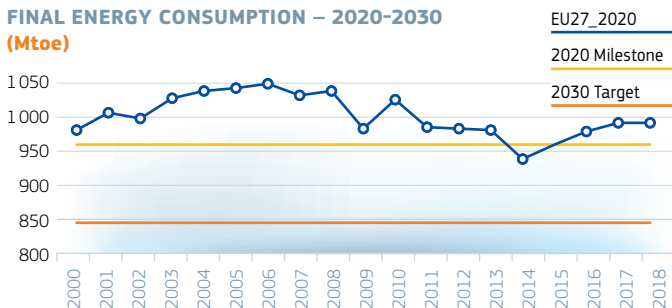
Methodology and Notes: [See Appendices](#)

1.3.3 EU 2020-2030 Milestones & Targets

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

	2005	2010	2015	2017	2018	2020 MILESTONE & TARGET	2030 TARGET
EU27_2020	1 040.8	1 024.0	957.7	989.1	989.4	959*	846
BE	36.6	37.7	35.9	36.1	36.3		
BG	10.1	8.8	9.5	9.9	9.9		
CZ	26.1	25.3	24.2	25.5	25.3		
DK	15.5	15.5	14.2	14.8	14.9		
DE	219.7	223.0	212.7	218.6	215.4		
EE	2.9	2.9	2.8	2.9	3.0		
IE	12.7	12.0	11.2	11.7	12.3		
EL	21.0	19.1	16.6	16.4	15.9		
ES	98.1	89.4	80.6	84.9	86.9		
FR	160.1	154.0	147.4	148.5	146.6		
HR	7.2	7.2	6.6	6.9	6.9		
IT	137.2	128.5	116.2	115.2	116.5		
CY	1.8	1.9	1.7	1.9	1.9		
LV	4.0	4.1	3.8	4.0	4.2		
LT	4.7	4.8	4.9	5.3	5.5		
LU	4.5	4.3	4.0	4.2	4.3		
HU	18.7	17.5	17.4	18.5	18.5		
MT	0.5	0.5	0.6	0.6	0.7		
NL	54.1	55.3	49.1	50.3	50.3		
AT	27.9	28.1	27.5	28.6	27.9		
PL	58.5	66.3	62.3	71.0	71.9		
PT	19.0	18.1	16.0	16.6	16.9		
RO	24.6	22.5	21.8	23.3	23.6		
SI	4.9	5.0	4.7	4.9	5.0		
SK	11.6	11.5	10.1	11.1	11.1		
FI	25.2	26.3	24.2	25.3	25.8		
SE	33.5	34.2	31.8	32.2	32.0		
UK	153.0	143.1	132.6	133.5	134.5		
EU28	1 193.8	1 167.1	1 090.3	1 122.6	1 123.9	1 086	

FINAL ENERGY CONSUMPTION – 2020-2030 (Mtoe)



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

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

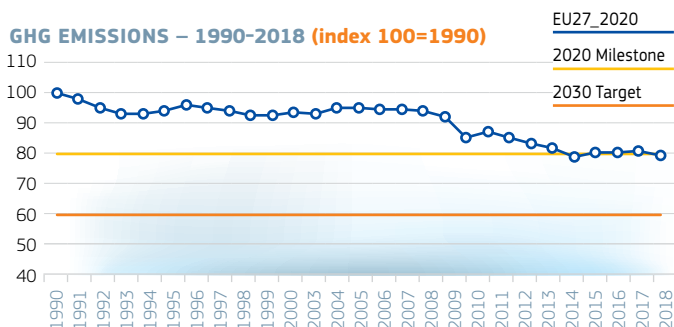
1.3.4 EU 2020-2030 Targets*

GHG EMISSIONS MILESTONES & TARGETS

(index 100=1990)

	2000	2005	2010	2017	2018	2020 MILESTONE & TARGET	2030 TARGET
EU27_2020	92.5	94.6	87.3	81.0	79.3	80*	60
BE	103.3	100.2	92.6	82.1	82.7		
BG	58.4	63.1	59.7	60.9	57.2		
CZ	75.8	75.1	71.1	65.6	64.8		
DK	101.4	95.5	90.9	70.7	70.7		
DE	84.3	80.6	76.6	73.2	70.4		
EE	42.9	47.4	52.3	52.3	50.0		
IE	124.0	127.7	112.5	113.3	113.6		
EL	122.0	131.4	114.5	93.6	90.8		
ES	135.4	154.7	126.2	121.5	119.7		
FR	101.8	102.5	94.8	86.4	83.1		
HR	80.0	93.2	87.5	78.7	75.2		
IT	107.7	114.4	100.4	85.0	84.4		
CY	144.9	159.6	161.5	155.8	153.8		
LV	40.0	43.7	47.6	43.9	45.9		
LT	40.5	47.4	43.4	43.2	42.6		
LU	80.9	108.8	102.4	90.9	94.2		
HU	78.3	80.7	69.4	68.2	67.8		
MT	112.6	117.0	118.8	93.5	96.1		
NL	101.5	99.7	99.0	90.8	88.6		
AT	103.3	118.9	109.2	106.2	102.7		
PL	83.4	85.2	87.1	87.7	87.4		
PT	139.1	146.2	119.0	123.8	118.9		
RO	57.7	61.0	50.1	47.4	46.8		
SI	102.4	110.0	105.2	93.5	94.3		
SK	67.1	69.9	63.2	59.3	59.2		
FI	98.7	98.6	107.1	79.6	81.4		
SE	96.6	94.6	91.8	76.5	75.3		
UK	91.7	89.7	79.3	62.7	61.6		
EU28	92.4	93.9	86.2	78.4	76.8	80	

GHG EMISSIONS – 1990-2018 (index 100=1990)



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

Source: EEA, June 2020, Eurostat 2020

Methodology and Notes: [See Appendices](#)

Energy in the EU



Energy in the EU



2

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2.1 Energy Supply

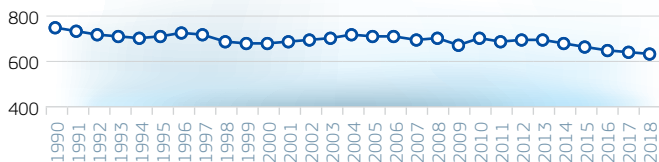
2.1.1 Production*

ALL FUELS

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	677.9	704.9	697.8	660.3	643.2	636.5
Index 2000	100 %	104 %	103 %	97 %	95 %	94 %
BE	13.61	13.83	15.66	10.87	15.28	11.86
BG	9.86	10.64	10.47	12.07	11.77	12.18
CZ	30.81	33.23	32.11	29.01	27.50	27.48
DK	27.83	31.35	23.41	16.23	15.75	14.02
DE	135.47	138.13	132.11	121.00	116.04	113.33
EE	3.18	3.87	4.93	5.60	5.79	6.60
IE	2.16	1.70	1.89	1.96	4.88	5.03
EL	10.04	10.38	9.49	8.55	7.50	7.53
ES	31.32	30.01	34.42	34.01	34.27	34.64
FR	129.73	136.29	136.98	141.16	131.94	138.03
HR	4.26	4.76	5.17	4.41	4.22	4.20
IT	28.35	30.28	32.94	36.10	36.67	37.34
CY	0.04	0.05	0.09	0.14	0.15	0.20
LV	1.41	1.87	1.98	2.35	2.60	2.87
LT	3.50	4.15	1.57	1.87	2.08	2.02
LU	0.06	0.11	0.12	0.15	0.19	0.21
HU	11.61	10.91	11.71	11.10	11.16	10.87
MT	0.00	0.00	0.00	0.02	0.03	0.03
NL	58.75	62.71	71.45	48.38	42.23	36.97
AT	9.82	9.89	12.12	12.22	12.64	11.99
PL	79.40	78.45	67.19	68.05	64.43	61.76
PT	3.85	3.61	5.80	5.91	5.85	6.53
RO	28.53	27.91	27.37	26.37	25.49	25.06
SI	3.09	3.49	3.65	3.26	3.52	3.40
SK	6.28	6.44	6.01	6.39	6.37	6.00
FI	14.92	16.72	17.16	17.22	18.25	19.71
SE	30.01	34.08	32.01	35.86	36.59	36.61
UK	272.33	205.50	146.35	115.68	117.94	121.27
EU28	950.23	910.38	844.17	775.96	761.14	757.77

PRODUCTION – ALL FUELS – 1990-2018 (Mtoe)

EU27_2020



* Primary production, recycled and recovered products.

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.1.1 Production*

BY FUEL

	2018						
	Nuclear	Solid Fossil Fuels	Renewables & biofuels	Natural Gas	Oil & Petroleum products	Wastes, Non-Renewable	Peat, Oil Shale & Oil Sands
Mtoe							
EU27_2020	195.7	116.7	217.3	59.2	25.6	13.3	7.7
Share (%)	30.8%	18.3%	34.1%	9.3%	4.0%	2.1%	1.2%
BE	7.45	0.03	3.36	0.00	0.03	0.67	0.00
BG	4.17	5.27	2.56	0.03	0.03	0.07	0.00
CZ	7.45	14.70	4.57	0.18	0.21	0.35	0.00
DK	0.00	0.00	4.14	3.70	5.82	0.36	0.00
DE	19.57	37.86	43.00	4.71	3.97	4.22	0.00
EE	0.00	0.00	1.74	0.00	0.00	0.04	4.82
IE	0.00	0.00	1.33	2.75	0.00	0.15	0.82
EL	0.00	4.27	3.02	0.01	0.20	0.03	0.00
ES	14.48	0.88	18.79	0.08	0.09	0.33	0.00
FR	107.63	0.00	27.62	0.01	0.97	1.80	0.00
HR	0.00	0.00	2.39	1.02	0.77	0.02	0.00
IT	0.00	0.00	26.66	4.46	5.09	1.13	0.00
CY	0.00	0.00	0.19	0.00	0.00	0.00	0.00
LV	0.00	0.00	2.85	0.00	0.01	0.01	0.00
LT	0.00	0.00	1.62	0.00	0.05	0.03	0.01
LU	0.00	0.00	0.18	0.00	0.00	0.04	0.00
HU	4.01	1.14	3.00	1.47	1.11	0.15	0.00
MT	0.00	0.00	0.03	0.00	0.00	0.00	0.00
NL	0.81	0.00	5.65	27.77	1.91	0.69	0.00
AT	0.00	0.00	9.78	0.86	0.70	0.65	0.00
PL	0.00	47.29	8.88	3.47	1.09	1.01	0.00
PT	0.00	0.00	6.37	0.00	0.00	0.16	0.00
RO	2.88	4.02	5.91	8.56	3.52	0.17	0.00
SI	1.36	0.90	1.06	0.01	0.00	0.06	0.00
SK	3.76	0.37	1.61	0.08	0.01	0.17	0.00
FI	5.44	0.00	11.95	0.00	0.01	0.29	1.86
SE	16.73	0.00	19.03	0.00	0.00	0.69	0.16
UK	14.06	1.57	16.63	34.85	52.85	1.30	0.00
EU28	209.80	118.31	233.93	94.02	78.43	14.59	7.66

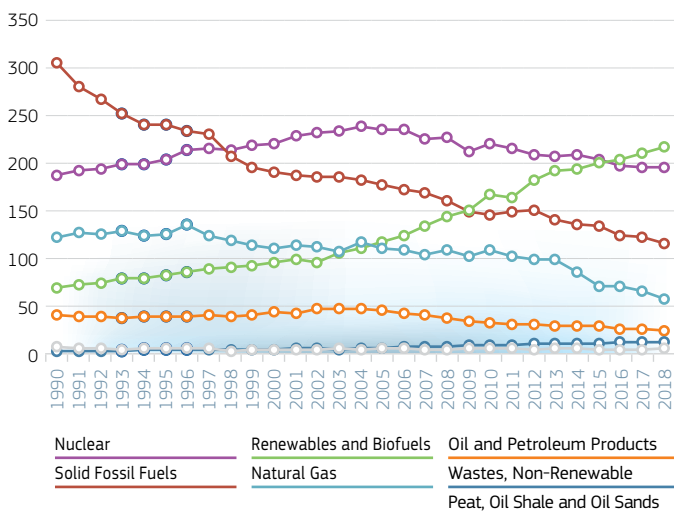
* Primary production. recycled and recovered products.

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

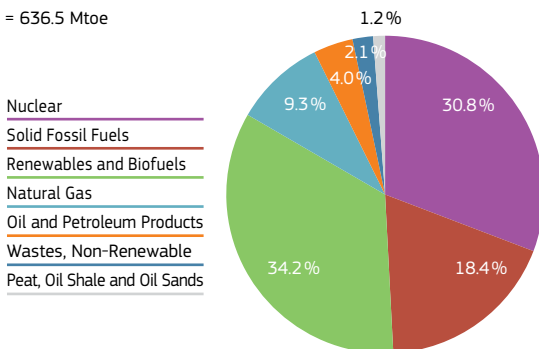
2.1.1 Production*

BY FUEL – EU27_2020 – 1990-2018 (Mtoe)



PRODUCTION – BY FUEL – EU27_2020 – 1990-2018 (% OF TOTAL)

Total = 636.5 Mtoe



* Primary production, recycled and recovered products.

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

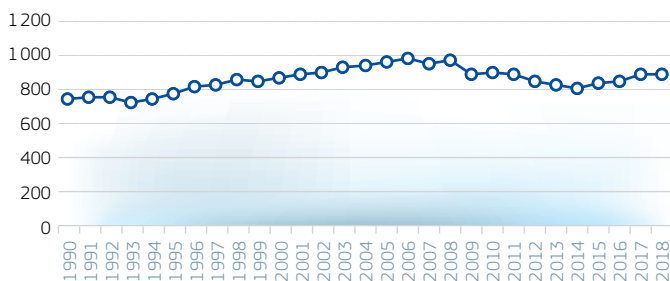
2.1.2 Net Imports

ALL FUELS

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	865.95	954.56	895.36	833.10	881.74	885.79
Index 2000	100%	110%	103%	96%	102%	102%
BE	50.63	53.42	53.63	49.92	47.96	52.93
BG	8.68	9.56	7.23	6.84	7.49	6.94
CZ	9.37	12.68	11.54	13.49	16.15	16.00
DK	-7.46	-10.42	-3.37	2.36	2.31	4.47
DE	204.85	211.96	204.59	199.14	207.41	200.97
EE	1.63	1.52	0.91	0.56	0.24	0.05
IE	12.41	13.96	13.23	12.71	9.94	10.11
EL	21.75	23.14	21.30	18.38	18.91	18.38
ES	99.86	124.25	106.68	94.85	101.33	100.82
FR	132.66	144.63	132.34	120.08	125.16	119.50
HR	4.10	5.17	4.42	4.15	4.72	4.58
IT	152.44	159.77	148.48	121.42	124.56	121.92
CY	2.58	2.86	2.96	2.47	2.71	2.68
LV	2.36	3.10	2.22	2.37	2.12	2.14
LT	4.30	5.05	5.71	5.48	5.66	5.94
LU	3.64	4.68	4.51	4.01	4.14	4.29
HU	13.87	17.75	15.14	13.58	16.70	15.51
MT	1.47	1.59	2.36	2.23	3.01	2.99
NL	34.99	37.53	28.28	42.72	46.94	53.17
AT	19.17	24.69	21.88	20.34	22.26	21.85
PL	9.60	16.49	32.14	28.67	40.37	47.96
PT	22.21	24.81	18.67	18.48	19.82	18.78
RO	8.04	10.63	7.49	5.33	7.82	8.16
SI	3.40	3.85	3.58	3.24	3.58	3.62
SK	11.54	12.34	11.41	9.78	11.18	10.85
FI	18.55	19.25	18.08	15.80	15.21	15.81
SE	19.29	20.31	19.91	14.69	14.04	15.36
UK	-40.31	31.65	62.60	72.87	66.85	66.49
EU28	825.64	986.21	957.96	905.97	948.59	952.28

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

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.1.2 Net Imports

BY FUEL

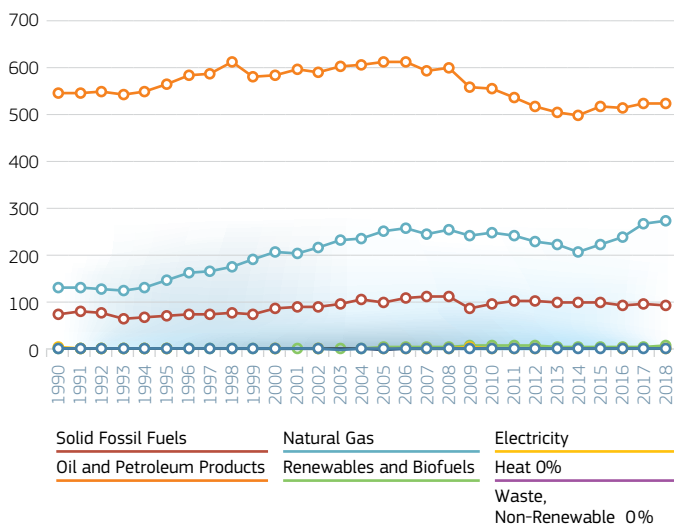
Mtoe	2018					
	Net Imports	Solid Fossil Fuels	Oil & Petroleum Products	Natural Gas	Renewables & Biofuels	Electricity
EU27_2020	885.8	91.7	517.6	270.2	5.0	0.8
Share (%)	100 %	10.4 %	58.4 %	30.5 %	0.6 %	0.1 %
BE	52.93	3.23	32.36	15.00	0.85	1.49
BG	6.94	0.57	4.51	2.58	-0.05	-0.67
CZ	16.00	0.83	9.76	6.60	0.00	-1.20
DK	4.47	1.75	1.49	-1.03	1.76	0.45
DE	200.97	29.37	105.21	70.53	0.04	-4.19
EE	0.05	0.01	0.35	0.41	-0.58	-0.16
IE	10.11	0.83	7.40	1.74	0.14	0.00
EL	18.38	0.23	13.34	4.14	0.12	0.54
ES	100.82	8.98	63.84	27.47	-0.42	0.95
FR	119.50	9.14	76.92	38.46	0.39	-5.41
HR	4.58	0.33	2.77	1.22	-0.20	0.46
IT	121.92	8.63	51.63	55.27	2.62	3.77
CY	2.68	0.01	2.61	0.00	0.05	0.00
LV	2.14	0.04	1.60	1.16	-0.76	0.08
LT	5.94	0.17	3.24	1.76	-0.08	0.83
LU	4.29	0.04	2.91	0.68	0.12	0.53
HU	15.51	1.02	6.95	6.45	-0.19	1.23
MT	2.99	0.00	2.59	0.32	0.02	0.05
NL	53.17	8.20	40.39	4.60	-0.86	0.69
AT	21.85	2.67	11.74	6.49	0.17	0.77
PL	47.96	4.05	30.68	12.51	0.23	0.49
PT	18.78	2.67	11.47	5.10	-0.24	-0.23
RO	8.16	0.89	6.15	1.20	0.14	-0.22
SI	3.62	0.21	2.66	0.71	0.08	-0.04
SK	10.85	3.07	3.83	3.65	-0.03	0.32
FI	15.81	2.77	9.02	2.18	0.11	1.71
SE	15.36	2.02	12.16	1.02	1.53	-1.48
UK	66.49	6.70	21.28	33.41	3.44	1.64
EU28	952.28	98.45	538.87	303.64	8.41	2.40

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

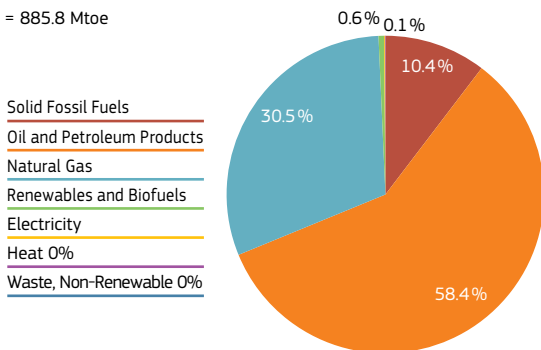
2.1.2 Net Imports

BY FUEL – EU27_2020 – 1990-2018 (Mtoe)



NET IMPORTS – BY FUEL – EU27_2020 – 2018 (% TOTAL)

Total = 885.8 Mtoe



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

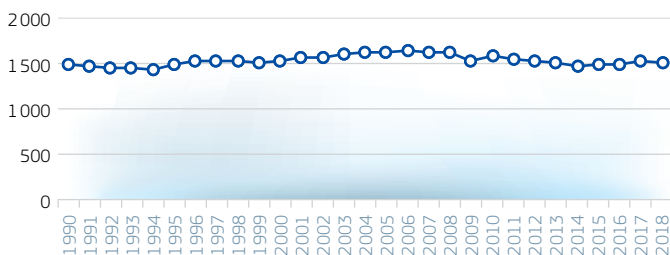
2.1.3 Gross Available Energy

ALL FUELS

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	1 538.56	1 650.73	1 606.33	1 488.52	1 533.59	1 522.58
Index 2000	100 %	107 %	104 %	97 %	100 %	99 %
BE	64.78	66.79	68.88	59.87	64.48	64.31
BG	18.70	20.19	18.01	18.77	19.02	19.07
CZ	41.29	45.53	45.60	42.37	43.46	43.55
DK	20.79	20.60	21.11	18.11	18.73	18.88
DE	344.63	348.97	341.02	320.52	324.28	316.12
EE	4.84	5.39	5.88	5.72	6.06	6.59
IE	14.52	15.57	15.20	14.33	14.83	14.99
EL	31.50	33.93	31.06	25.87	26.53	26.01
ES	130.04	152.39	138.41	130.29	137.45	137.56
FR	258.87	279.77	271.99	261.89	257.32	256.55
HR	8.46	9.84	9.48	8.51	8.89	8.70
IT	176.19	191.69	179.82	157.63	161.82	159.71
CY	2.61	2.84	2.95	2.54	2.83	2.90
LV	3.87	4.85	4.88	4.63	4.81	4.83
LT	7.44	9.12	7.22	7.26	7.87	8.00
LU	3.66	4.80	4.65	4.18	4.33	4.51
HU	25.23	28.51	26.59	25.20	26.70	26.71
MT	1.47	1.59	2.39	2.29	2.92	3.05
NL	91.43	99.32	100.01	88.13	90.51	89.10
AT	29.24	34.40	34.85	33.70	34.82	34.00
PL	89.50	92.91	101.80	95.98	105.42	107.05
PT	26.05	28.02	24.83	24.23	25.43	24.84
RO	36.76	38.69	35.02	31.92	33.56	33.61
SI	6.45	7.35	7.23	6.51	7.02	7.05
SK	17.73	18.70	17.71	16.26	17.25	17.05
FI	33.44	35.35	37.06	32.91	34.58	35.22
SE	49.07	53.62	52.67	48.91	52.69	52.63
UK	235.34	236.86	215.80	193.46	188.15	187.59
EU28	1 773.90	1 887.59	1 822.12	1 681.98	1 721.74	1 710.17

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

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

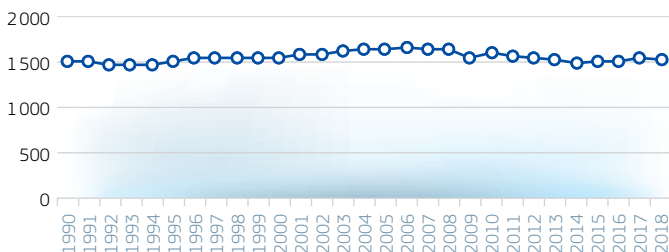
2.1.4 Gross Inland Consumption

ALL FUELS

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	1 498.18	1 603.53	1 559.63	1 449.03	1 491.68	1 479.27
Index 2000	100 %	107 %	104 %	97 %	100 %	99 %
BE	59.44	59.16	61.28	54.04	56.98	55.03
BG	18.63	20.08	17.92	18.68	18.94	18.98
CZ	41.29	45.53	45.60	42.37	43.46	43.55
DK	19.50	19.83	20.42	17.34	18.19	18.29
DE	342.43	346.48	338.25	318.09	321.99	314.43
EE	4.73	5.27	5.67	5.44	5.76	6.30
IE	14.37	15.47	15.06	14.17	14.67	14.82
EL	27.90	31.06	28.35	24.09	24.39	23.82
ES	124.02	144.48	129.99	122.81	130.77	130.56
FR	256.05	277.21	269.70	260.25	255.67	254.71
HR	8.44	9.82	9.47	8.50	8.88	8.68
IT	174.54	189.45	176.84	155.73	159.51	156.99
CY	2.42	2.55	2.76	2.30	2.57	2.63
LV	3.86	4.59	4.63	4.38	4.55	4.79
LT	7.35	8.98	7.08	7.18	7.69	7.80
LU	3.66	4.80	4.65	4.18	4.33	4.51
HU	25.23	28.51	26.59	25.20	26.70	26.71
MT	0.81	0.94	0.94	0.76	0.83	0.84
NL	78.27	83.70	86.15	76.18	79.00	77.90
AT	29.22	34.38	34.83	33.68	34.80	33.99
PL	89.22	92.58	101.58	95.78	105.15	106.78
PT	25.38	27.44	24.37	23.58	24.65	24.03
RO	36.76	38.69	35.01	31.87	33.53	33.60
SI	6.45	7.32	7.22	6.44	6.87	6.83
SK	17.73	18.70	17.71	16.26	17.25	17.05
FI	32.76	34.84	36.85	32.62	34.23	34.89
SE	47.71	51.68	50.71	47.08	50.31	50.77
UK	233.26	234.83	213.02	190.94	185.89	185.14
EU28	1 731.45	1 838.36	1 772.65	1 639.96	1 677.57	1 664.40

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

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.1.4 Gross Inland Consumption

BY FUEL

	2018							
	Oil & Petroleum Products	Natural Gas	Solid Fossil Fuels	Renewables & Biofuels	Nuclear	Waste, Non-Renewable	Electricity	Others*
Mtoe								
EU27_2020	504.1	324.6	210.3	222.1	195.7	13.7	0.8	7.0
Share (%)	34.1%	21.9%	14.2%	15.0%	13.2%	0.9%	0.1%	0.5%
BE	22.9	14.9	3.1	4.2	7.5	0.7	1.5	0.0
BG	4.6	2.6	5.6	2.5	4.2	0.1	-0.7	0.0
CZ	9.8	6.8	15.7	4.6	7.4	0.3	-1.2	0.0
DK	7.1	2.7	1.7	5.9	0.0	0.4	0.4	0.0
DE	108.5	73.6	69.7	43.0	19.6	4.2	-4.2	0.0
EE	0.1	0.4	0.0	1.2	0.0	0.0	-0.2	4.7
IE	7.4	4.5	0.7	1.5	0.0	0.1	0.0	0.6
EL	11.4	4.1	4.6	3.1	0.0	0.0	0.5	0.0
ES	57.5	27.1	11.5	18.7	14.5	0.3	1.0	0.0
FR	76.9	36.7	9.0	28.0	107.6	1.8	-5.4	0.0
HR	3.4	2.3	0.4	2.2	0.0	0.0	0.5	0.0
IT	54.7	59.5	8.5	29.3	0.0	1.1	3.8	0.0
CY	2.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0
LV	1.6	1.2	0.0	1.9	0.0	0.0	0.1	0.0
LT	3.1	1.8	0.2	1.6	0.0	0.0	0.8	0.0
LU	2.9	0.7	0.0	0.3	0.0	0.0	0.5	0.0
HU	8.1	8.3	2.1	2.8	4.0	0.2	1.2	0.0
MT	0.5	0.3	0.0	0.0	0.0	0.0	0.1	0.0
NL	31.8	30.7	8.2	4.6	0.8	0.9	0.7	0.0
AT	12.5	7.4	2.7	10.0	0.0	0.6	0.8	0.0
PL	30.8	16.1	49.2	9.1	0.0	1.0	0.5	0.0
PT	10.2	5.0	2.7	6.1	0.0	0.2	-0.2	0.0
RO	9.7	9.9	5.0	6.0	2.9	0.2	-0.2	0.0
SI	2.5	0.7	1.1	1.1	1.4	0.1	0.0	0.0
SK	3.8	4.1	3.3	1.6	3.8	0.2	0.3	0.0
FI	8.8	2.2	2.8	12.1	5.4	0.3	1.7	1.5
SE	11.1	1.0	2.0	20.5	16.7	0.8	-1.5	0.2
UK	72.3	67.7	8.1	20.1	14.1	1.3	1.6	0.0
EU28	576.4	392.3	218.4	242.1	209.8	15.0	2.4	7.0

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

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.1.4 Gross Inland Consumption

RENEWABLES AND BIOFUELS

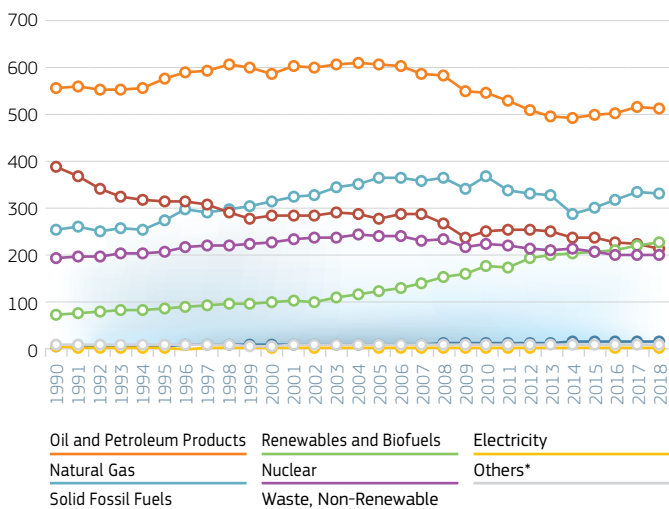
Mtoe	2018								
	Renewables & Biofuels	Hydro	Wind	Solar Photovoltaic	Solar Thermal	Tide, Wave & Ocean	Biofuels & Renewable Waste	Geothermal	Ambient Heat (Heat Pumps)
EU27_2020	222.1	29.6	27.6	9.5	4.3	0.0	132.8	6.8	11.4
Share (%)	100.0 %	13.3 %	12.4 %	4.3 %	1.9 %	0.0 %	59.8 %	3.1 %	5.2 %
BE	4.21	0.03	0.64	0.34	0.03	0.00	3.11	0.00	0.06
BG	2.52	0.44	0.11	0.12	0.02	0.00	1.70	0.03	0.09
CZ	4.57	0.14	0.05	0.20	0.02	0.00	3.98	0.00	0.17
DK	5.90	0.00	1.20	0.08	0.07	0.00	4.30	0.00	0.25
DE	43.05	1.55	9.45	3.94	0.76	0.00	25.90	0.28	1.16
EE	1.16	0.00	0.05	0.00	0.00	0.00	1.10	0.00	0.00
IE	1.47	0.06	0.74	0.00	0.01	0.00	0.61	0.00	0.04
EL	3.14	0.49	0.54	0.33	0.28	0.00	1.17	0.01	0.32
ES	18.69	2.95	4.38	0.68	2.24	0.00	7.68	0.02	0.74
FR	28.02	5.61	2.46	0.91	0.18	0.04	15.95	0.45	2.42
HR	2.18	0.66	0.11	0.01	0.01	0.00	1.36	0.01	0.02
IT	29.28	4.19	1.52	1.95	0.22	0.00	13.38	5.42	2.60
CY	0.24	0.00	0.02	0.02	0.07	0.00	0.08	0.00	0.05
LV	1.87	0.21	0.01	0.00	0.00	0.00	1.65	0.00	0.00
LT	1.55	0.04	0.10	0.01	0.00	0.00	1.38	0.00	0.02
LU	0.30	0.01	0.02	0.01	0.00	0.00	0.25	0.00	0.01
HU	2.79	0.02	0.05	0.05	0.01	0.00	2.51	0.14	0.01
MT	0.05	0.00	0.00	0.02	0.01	0.00	0.01	0.00	0.01
NL	4.62	0.01	0.91	0.32	0.03	0.00	3.06	0.09	0.22
AT	9.97	3.24	0.52	0.12	0.18	0.00	5.53	0.04	0.33
PL	9.08	0.17	1.10	0.03	0.06	0.00	7.65	0.02	0.06
PT	6.14	1.07	1.08	0.09	0.09	0.00	2.95	0.21	0.65
RO	6.04	1.52	0.54	0.15	0.00	0.00	3.78	0.04	0.00
SI	1.13	0.40	0.00	0.02	0.01	0.00	0.65	0.05	0.00
SK	1.58	0.31	0.00	0.05	0.01	0.00	1.21	0.01	0.00
FI	12.06	1.14	0.50	0.01	0.00	0.00	9.84	0.00	0.57
SE	20.45	5.35	1.43	0.04	0.01	0.00	12.00	0.00	1.63
UK	20.07	0.47	4.89	1.11	0.05	0.00	12.46	0.00	1.09
EU28	242.14	30.08	32.45	10.57	4.38	0.04	145.25	6.83	12.53

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.1.4 Gross Inland Consumption

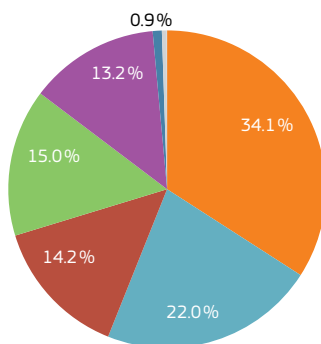
BY FUEL – EU27_2020 – 1990-2018 (Mtoe)



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

Total = 1 479.3 Mtoe

Oil and Petroleum Products
Natural Gas
Solid Fossil Fuels
Renewables and Biofuels
Nuclear
Waste, Non-Renewable
Others* 0.5%
Electricity 0.1%



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

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

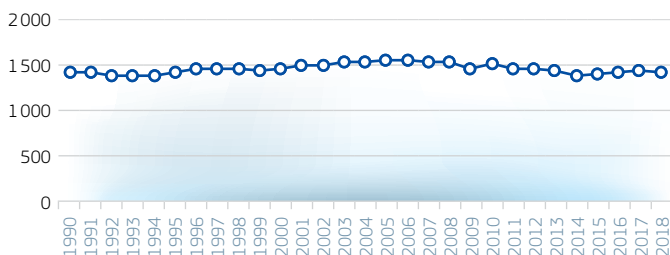
2.1.5 Total Energy Supply

ALL FUELS

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	1 469.61	1 572.39	1 527.50	1 414.51	1 452.81	1 438.36
Index 2000	100 %	107 %	104 %	96 %	99 %	98 %
BE	57.93	58.00	59.91	52.60	55.40	53.34
BG	18.55	19.89	17.75	18.50	18.70	18.73
CZ	41.13	45.22	45.29	42.07	43.11	43.14
DK	18.72	18.97	19.61	16.46	17.21	17.26
DE	335.81	339.03	330.30	310.08	312.47	304.60
EE	4.71	5.22	5.64	5.39	5.70	6.23
IE	13.77	14.65	14.32	13.33	13.66	13.73
EL	27.06	30.26	27.66	23.26	23.41	22.73
ES	121.24	141.30	126.87	118.85	126.19	125.78
FR	250.83	271.78	264.19	254.59	250.04	248.91
HR	8.38	9.73	9.37	8.39	8.73	8.49
IT	171.71	186.45	173.68	152.56	156.09	153.16
CY	2.14	2.24	2.48	2.05	2.26	2.31
LV	3.84	4.53	4.51	4.27	4.41	4.64
LT	7.33	8.94	7.03	7.10	7.59	7.67
LU	3.34	4.37	4.21	3.72	3.76	3.89
HU	24.99	28.25	26.36	25.03	26.48	26.44
MT	0.68	0.85	0.84	0.64	0.69	0.69
NL	74.97	80.06	82.74	72.38	74.98	73.83
AT	28.67	33.73	34.16	32.98	34.06	33.16
PL	88.94	92.25	101.08	95.14	104.30	105.78
PT	24.71	26.68	23.49	22.54	23.37	22.66
RO	36.63	38.56	34.84	31.63	33.20	33.46
SI	6.42	7.30	7.19	6.42	6.84	6.79
SK	17.70	18.66	17.67	16.22	17.21	17.00
FI	32.42	34.42	36.31	31.98	33.55	34.11
SE	46.99	51.03	50.00	46.33	49.42	49.82
UK	222.56	222.54	202.07	179.87	173.99	173.14
EU28	1 692.17	1 794.93	1 729.58	1 594.38	1 626.80	1 611.50

TOTAL ENERGY SUPPLY – ALL FUELS –
1990-2018 (Mtoe)

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.2 Energy Imports

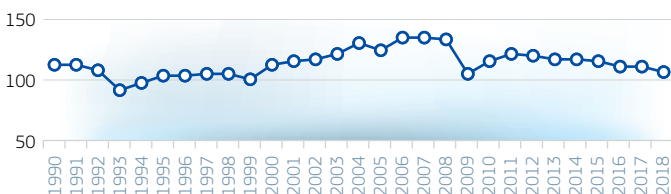
2.2.1 Imports – Solid Fossil Fuels

TOTAL

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	110.2	121.1	114.0	112.8	109.4	104.7
Index 2000	100 %	110 %	103 %	102 %	99 %	95 %
BE	8.43	6.01	4.39	3.32	3.00	3.28
BG	2.38	2.56	1.75	0.76	0.58	0.59
CZ	1.04	1.34	2.36	2.84	3.01	2.96
DK	3.86	3.56	2.68	1.60	1.98	1.76
DE	22.22	26.58	32.59	37.48	33.80	30.87
EE	0.07	0.04	0.05	0.00	0.02	0.02
IE	1.70	1.91	0.96	1.48	1.23	0.83
EL	0.81	0.40	0.40	0.16	0.23	0.23
ES	13.35	14.83	7.85	10.95	11.15	9.30
FR	13.38	13.98	12.25	9.21	10.14	9.17
HR	0.48	0.62	0.70	0.62	0.40	0.33
IT	13.23	16.53	14.00	12.58	9.59	8.88
CY	0.03	0.04	0.01	0.00	0.01	0.01
LV	0.06	0.08	0.11	0.04	0.04	0.05
LT	0.08	0.17	0.19	0.15	0.18	0.17
LU	0.11	0.08	0.07	0.05	0.05	0.04
HU	1.21	1.46	1.41	1.11	1.26	1.24
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	8.13	8.46	7.76	10.70	9.41	8.32
AT	3.07	4.05	3.38	2.85	3.14	2.71
PL	1.02	2.15	8.27	5.06	7.88	12.15
PT	3.97	3.23	1.63	3.21	3.41	2.67
RO	1.92	2.93	1.22	1.05	0.99	0.89
SI	0.25	0.33	0.28	0.20	0.20	0.21
SK	3.47	3.90	3.22	2.82	3.02	3.11
FI	3.56	3.36	3.99	2.59	2.70	2.85
SE	2.36	2.48	2.46	1.98	1.96	2.02
UK	15.23	27.76	16.92	14.95	6.16	7.11
EU28	125.39	148.83	130.89	127.76	115.55	111.81

IMPORTS – SOLID FOSSIL FUELS – TOTAL – 1990-2018 (Mtoe)

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

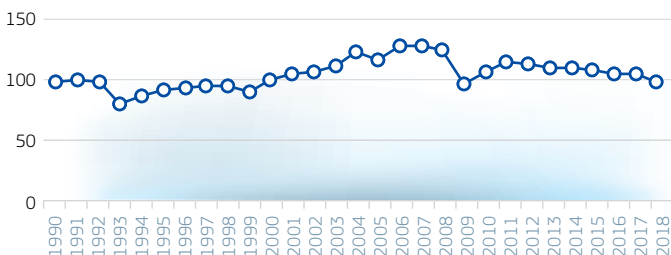
2.2.1 Imports – Solid Fossil Fuels

HARD COAL

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	99.3	111.3	104.1	104.9	102.3	97.7
Index 2000	100%	112%	105%	106%	103%	98%
BE	7.46	5.70	4.09	2.78	2.41	2.69
BG	2.25	2.49	1.70	0.70	0.54	0.55
CZ	0.63	0.76	1.41	1.96	2.43	2.38
DK	3.82	3.54	2.67	1.59	1.97	1.75
DE	17.39	23.93	29.33	35.35	32.13	29.19
EE	0.06	0.04	0.05	0.00	0.02	0.02
IE	1.68	1.88	0.95	1.47	1.22	0.82
EL	0.81	0.40	0.40	0.16	0.23	0.23
ES	13.25	14.74	7.71	10.73	10.98	9.03
FR	12.33	12.85	11.30	8.79	9.72	8.70
HR	0.44	0.57	0.64	0.58	0.35	0.30
IT	12.87	15.94	13.81	11.92	9.13	8.43
CY	0.03	0.04	0.01	0.00	0.01	0.01
LV	0.05	0.07	0.11	0.04	0.04	0.05
LT	0.01	0.00	0.11	0.14	0.16	0.16
LU	0.10	0.07	0.06	0.04	0.04	0.04
HU	0.88	1.00	1.28	0.97	1.09	1.10
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	7.74	8.19	7.52	10.63	9.30	8.21
AT	2.32	3.00	2.45	2.11	2.30	2.10
PL	1.01	2.05	8.16	4.91	7.65	11.93
PT	3.97	3.22	1.63	3.20	3.40	2.66
RO	1.65	2.05	0.14	0.08	0.12	0.11
SI	0.01	0.03	0.02	0.01	0.01	0.01
SK	3.15	3.48	2.57	2.53	2.64	2.69
FI	3.21	3.01	3.68	2.28	2.52	2.64
SE	2.14	2.22	2.29	1.92	1.89	1.87
UK	14.90	27.11	16.84	14.14	5.45	6.40
EU28	114.16	138.38	120.92	119.04	107.75	104.08

IMPORTS – SOLID FOSSIL FUELS – HARD COAL –
1990-2018 (Mtoe)

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.2.1 Imports – Solid Fossil Fuels

RANKING

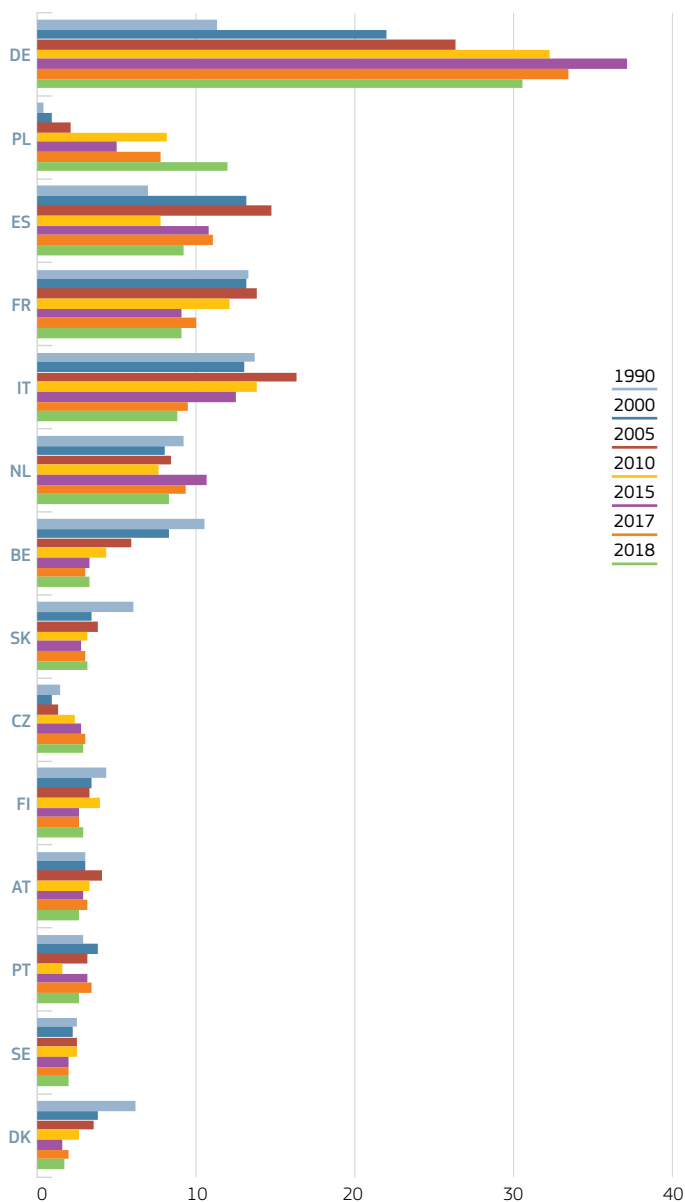
Mtoe and %	2000			2018		
Top 10 Ranking	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Solid Fossil Fuels						
1	DE	22.2	20.2 %	DE	30.9	29.5 %
2	FR	13.4	12.1 %	PL	12.1	11.6 %
3	ES	13.3	12.1 %	ES	9.3	8.9 %
4	IT	13.2	12.0 %	FR	9.2	8.8 %
5	BE	8.4	7.7 %	IT	8.9	8.5 %
6	NL	8.1	7.4 %	NL	8.3	8.0 %
7	PT	4.0	3.6 %	BE	3.3	3.1 %
8	DK	3.9	3.5 %	SK	3.1	3.0 %
9	FI	3.6	3.2 %	CZ	3.0	2.8 %
10	SK	3.5	3.1 %	FI	2.9	2.7 %
Top 5 Total		70.6	64.1 %		70.4	67.2 %
Total EU27_2020		110.2	100.0 %		104.7	100.0 %
Of which: Hard Coal						
1	DE	17.4	17.5 %	DE	29.2	29.9 %
2	ES	13.3	13.4 %	PL	11.9	12.2 %
3	IT	12.9	13.0 %	ES	9.0	9.2 %
4	FR	12.3	12.4 %	FR	8.7	8.9 %
5	NL	7.7	7.8 %	IT	8.4	8.6 %
6	BE	7.5	7.5 %	NL	8.2	8.4 %
7	PT	4.0	4.0 %	SK	2.7	2.8 %
8	DK	3.8	3.9 %	BE	2.7	2.8 %
9	FI	3.2	3.2 %	PT	2.7	2.7 %
10	SK	3.1	3.2 %	FI	2.6	2.7 %
Top 5 Total		63.6	64.1 %		67.3	68.9 %
Total EU27_2020		99.3	100.0 %		97.7	100.0 %

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.2.1 Imports – Solid Fossil Fuels

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

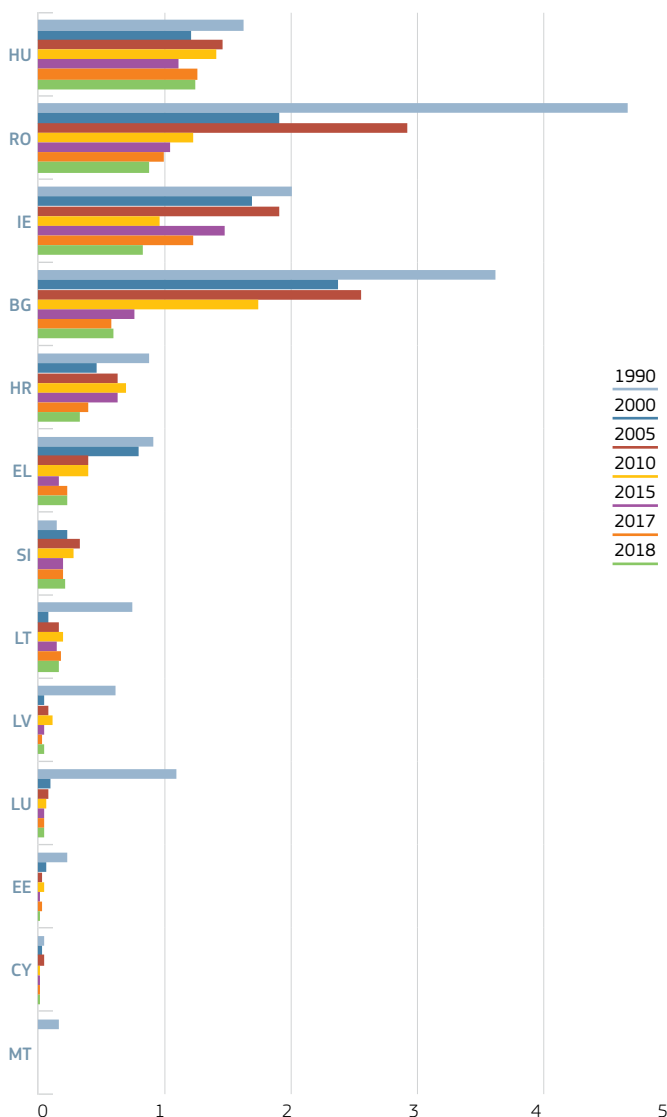


Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.2.1 Imports – Solid Fossil Fuels

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



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

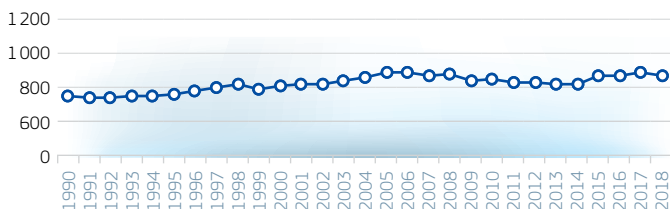
2.2.2 Imports – Oil and Petroleum Products

TOTAL

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	799.0	877.2	838.6	857.9	877.2	865.2
Index 2000	100%	110%	105%	107%	110%	108%
BE	52.91	58.44	56.76	59.85	63.46	65.13
BG	6.10	7.85	7.76	8.99	9.57	8.09
CZ	8.58	10.96	10.61	11.17	11.79	12.00
DK	9.93	8.79	9.51	13.97	10.64	10.95
DE	148.18	150.88	130.79	130.77	133.91	127.55
EE	0.92	1.16	1.16	1.68	1.89	2.04
IE	9.63	10.35	9.21	9.27	9.10	9.12
EL	23.43	26.08	26.61	30.93	33.02	33.70
ES	78.71	88.14	80.88	84.21	89.97	89.18
FR	112.87	123.35	106.30	103.16	100.80	97.20
HR	4.20	5.53	4.97	4.54	5.23	5.23
IT	109.73	108.25	96.89	80.73	84.96	81.51
CY	2.54	2.81	2.93	2.46	2.65	2.61
LV	1.35	2.29	1.94	2.76	2.59	2.49
LT	5.46	9.63	10.25	11.17	11.32	10.90
LU	2.39	3.16	2.86	2.62	2.77	2.91
HU	7.00	9.13	8.53	9.33	9.73	10.80
MT	1.47	1.59	2.38	2.67	2.82	2.94
NL	104.61	125.35	146.70	156.69	152.37	150.92
AT	12.45	15.47	13.96	14.03	14.01	14.83
PL	21.78	24.96	29.22	32.53	35.11	36.87
PT	17.62	19.52	15.39	18.10	18.43	16.86
RO	6.36	9.71	8.17	9.62	11.12	11.65
SI	2.69	2.85	3.29	4.09	4.79	4.81
SK	5.56	6.83	6.85	7.57	7.58	7.40
FI	15.65	16.04	16.30	16.53	17.96	17.97
SE	26.83	28.07	28.34	28.43	29.59	29.55
UK	70.90	83.99	81.22	85.69	90.77	90.62
EU28	869.85	961.15	919.77	943.57	967.94	955.85

IMPORTS – OIL AND PETROLEUM PRODUCTS – TOTAL – 1990-2018 (Mtoe)

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

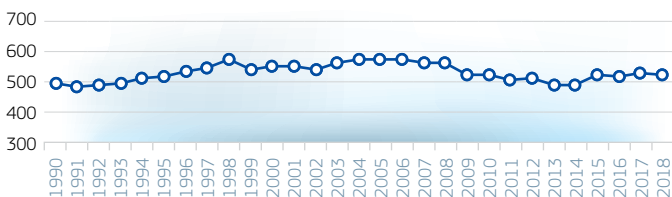
2.2.2 Imports – Oil and Petroleum Products

CRUDE OIL AND NGL

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	560.3	588.1	528.3	526.5	536.9	526.6
Index 2000	100 %	105 %	94 %	94 %	96 %	94 %
BE	34.16	31.99	33.48	32.44	34.41	33.25
BG	5.31	6.14	5.52	6.17	6.97	5.95
CZ	5.67	7.76	7.83	7.22	7.91	7.60
DK	3.81	2.79	2.79	4.28	4.95	4.84
DE	104.75	115.21	94.69	92.66	92.12	86.51
EE	0.00	0.00	0.00	0.00	0.00	0.00
IE	3.01	3.34	3.11	3.72	2.98	3.05
EL	19.22	18.55	19.97	21.91	23.48	24.14
ES	58.07	60.16	53.00	65.39	66.64	68.28
FR	85.45	86.00	65.48	59.20	58.93	54.21
HR	3.96	4.05	3.60	2.37	2.87	3.02
IT	83.64	89.30	78.60	62.46	66.35	62.05
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	9.92	9.76
LU	0.00	0.00	0.00	0.00	0.00	0.00
HU	5.79	6.59	5.84	6.35	5.97	6.67
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	61.06	62.48	61.05	60.29	61.23	61.78
AT	7.43	7.95	6.90	8.23	7.33	8.46
PL	18.27	18.18	23.03	26.89	25.02	27.25
PT	11.73	13.42	11.48	14.36	14.59	13.00
RO	4.81	8.69	5.82	6.59	7.75	8.26
SI	0.12	0.00	0.00	0.00	0.00	0.00
SK	5.28	5.37	5.48	5.92	5.60	5.45
FI	11.86	10.84	11.44	11.12	12.66	12.98
SE	20.83	20.24	20.00	20.25	19.19	20.11
UK	50.67	54.14	50.21	47.03	48.42	47.69
EU28	610.98	642.27	578.52	573.56	585.30	574.33

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

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

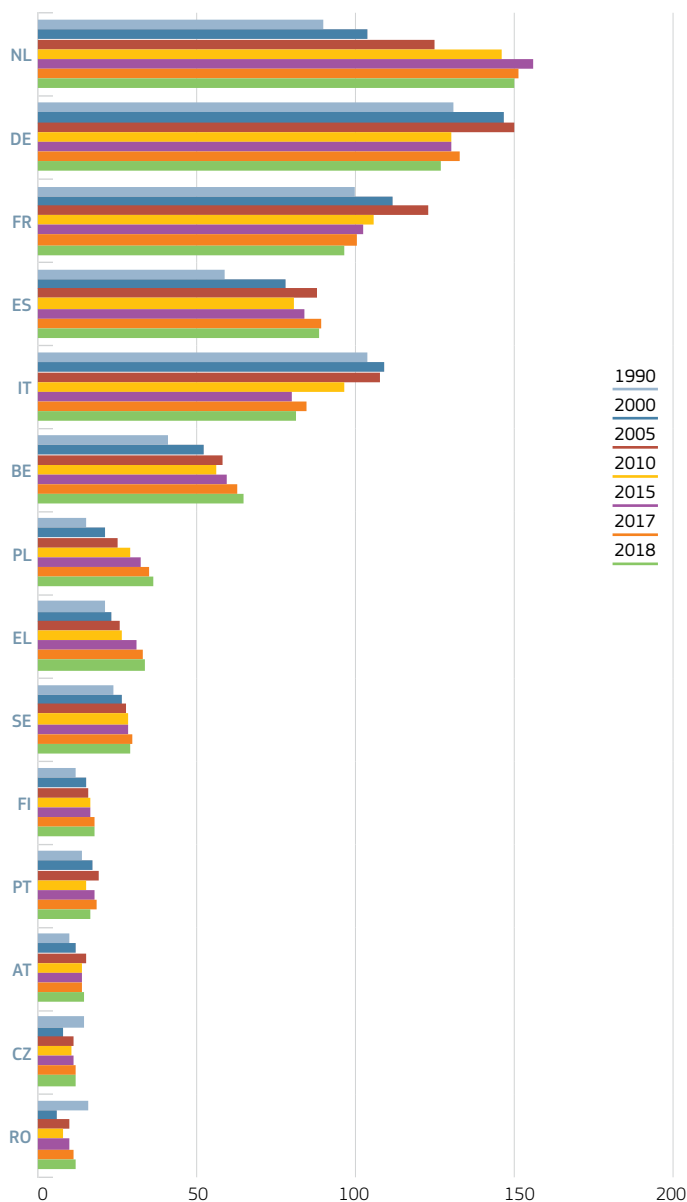
2.2.2 Imports – Oil and Petroleum Products

RANKING

Mtoe and %	2000			2018		
Top 10 Ranking	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Oil and Petroleum Products						
1	DE	148.2	18.5 %	NL	150.9	17.4 %
2	FR	112.9	14.1 %	DE	127.6	14.7 %
3	IT	109.7	13.7 %	FR	97.2	11.2 %
4	NL	104.6	13.1 %	ES	89.2	10.3 %
5	ES	78.7	9.9 %	IT	81.5	9.4 %
6	BE	52.9	6.6 %	BE	65.1	7.5 %
7	SE	26.8	3.4 %	PL	36.9	4.3 %
8	EL	23.4	2.9 %	EL	33.7	3.9 %
9	PL	21.8	2.7 %	SE	29.6	3.4 %
10	PT	17.6	2.2 %	FI	18.0	2.1 %
Top 5 Total		554.1	69.4 %		546.4	63.1 %
Total EU27_2020		799.0	100.0 %		865.2	100.0 %
Of which: Crude Oil and NGL						
1	DE	104.8	18.7 %	DE	86.5	16.4 %
2	FR	85.4	15.2 %	ES	68.3	13.0 %
3	IT	83.6	14.9 %	IT	62.1	11.8 %
4	NL	61.1	10.9 %	NL	61.8	11.7 %
5	ES	58.1	10.4 %	FR	54.2	10.3 %
6	BE	34.2	6.1 %	BE	33.3	6.3 %
7	SE	20.8	3.7 %	PL	27.3	5.2 %
8	EL	19.2	3.4 %	EL	24.1	4.6 %
9	PL	18.3	3.3 %	SE	20.1	3.8 %
10	FI	11.9	2.1 %	PT	13.0	2.5 %
Top 5 Total		393.0	70.1 %		332.8	63.2 %
Total EU27_2020		560.3	100.0 %		526.6	100.0 %

2.2.2 Imports – Oil and Petroleum Products

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

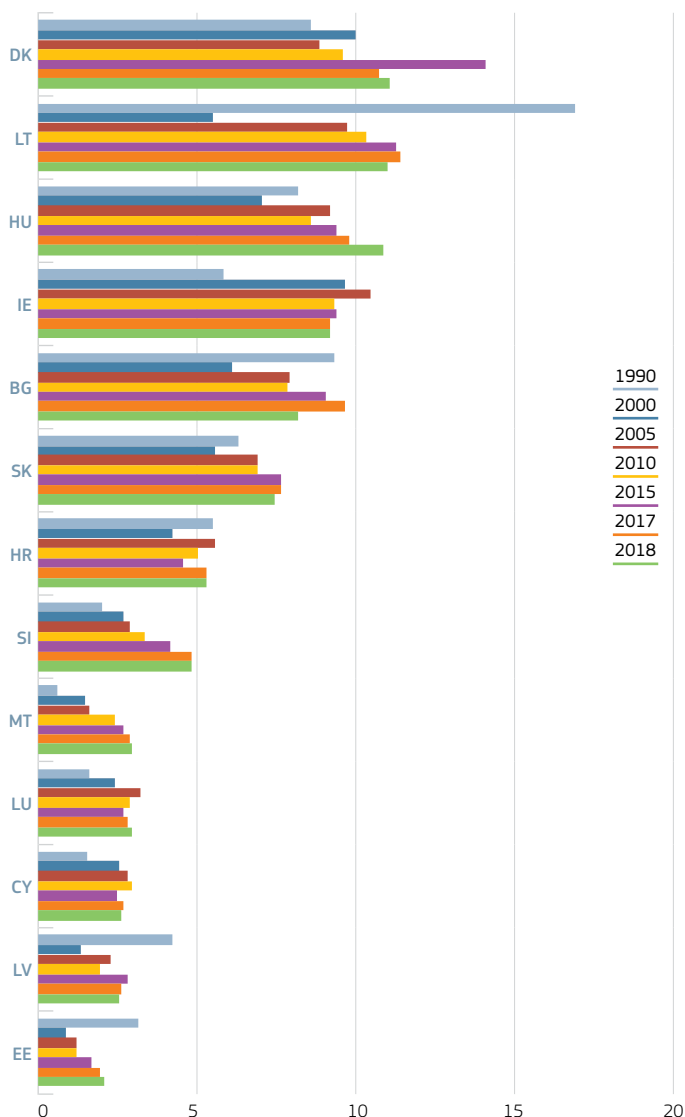


Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.2.2 Imports – Oil and Petroleum Products

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



Source: Eurostat, May 2020

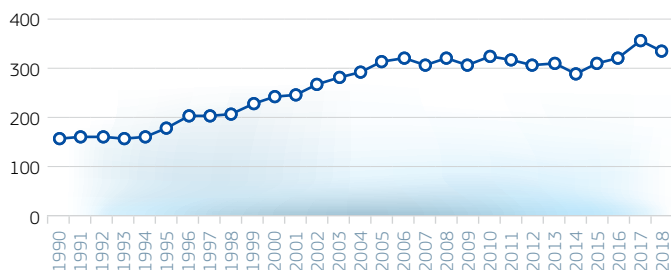
Methodology and Notes: [See Appendices](#)

2.2.3 Imports – Natural Gas

TOTAL

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	240.41	310.34	320.05	305.98	351.99	329.62
Index 2000	100 %	129 %	133 %	127 %	146 %	137 %
BE	13.28	14.82	19.55	15.29	14.86	16.13
BG	2.74	2.46	2.13	2.52	2.72	2.59
CZ	7.48	7.60	6.98	6.16	7.33	6.60
DK	0.00	0.00	0.14	0.59	0.46	0.35
DE	61.09	78.90	78.80	85.92	95.74	70.53
EE	0.66	0.80	0.56	0.39	0.39	0.41
IE	2.48	3.01	4.48	3.62	1.41	1.74
EL	1.69	2.33	3.23	2.67	4.23	4.14
ES	15.47	30.25	31.96	28.18	30.13	30.29
FR	36.46	41.62	42.11	39.38	43.16	43.78
HR	0.91	0.93	0.87	0.87	1.51	1.31
IT	47.05	60.16	61.72	50.18	57.04	55.59
CY	0.00	0.00	0.00	0.00	0.00	0.00
LV	1.11	1.43	0.90	1.08	1.01	1.16
LT	2.06	2.49	2.48	2.14	2.08	1.91
LU	0.67	1.18	1.20	0.77	0.69	0.68
HU	7.35	9.81	7.91	5.68	11.16	10.62
MT	0.00	0.00	0.00	0.00	0.25	0.32
NL	12.47	16.44	18.45	29.24	38.86	43.64
AT	5.32	8.04	10.19	9.77	11.54	10.82
PL	6.64	8.57	8.91	9.99	13.03	13.08
PT	2.04	3.89	4.50	4.07	5.44	5.10
RO	2.71	4.19	1.82	0.16	0.96	1.22
SI	0.82	0.93	0.86	0.66	0.73	0.72
SK	5.71	6.05	5.00	3.69	4.37	3.65
FI	3.43	3.61	3.84	2.24	1.92	2.18
SE	0.78	0.84	1.47	0.72	0.94	1.04
UK	2.01	13.42	46.92	38.34	39.79	39.79
EU28	242.43	323.75	366.96	344.32	391.77	369.41

IMPORTS – NATURAL GAS – TOTAL – 1990-2018 (Mtoe) EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

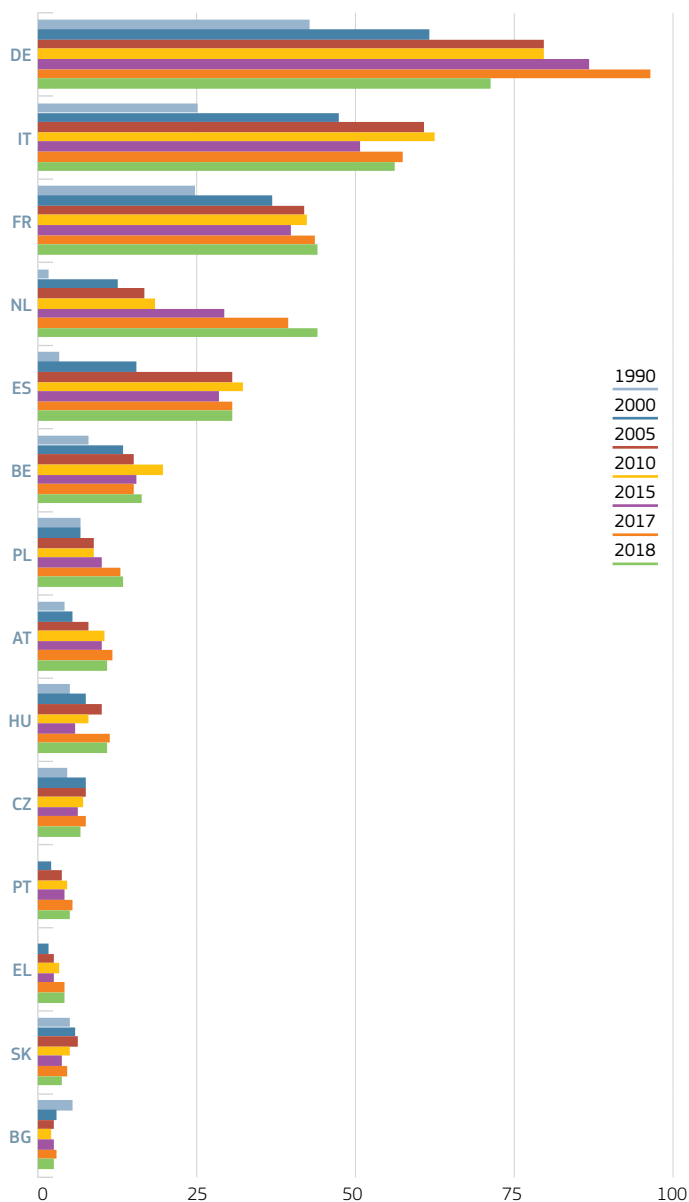
2.2.3 Imports – Natural Gas

RANKING

Mtoe and % EU27_2020 Ranking	2000			2018		
	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Natural Gas						
1	DE	61.1	25.4%	DE	70.5	21.4%
2	IT	47.0	19.6%	IT	55.6	16.9%
3	FR	36.5	15.2%	FR	43.8	13.3%
4	ES	15.5	6.4%	NL	43.6	13.2%
5	BE	13.3	5.5%	ES	30.3	9.2%
6	NL	12.5	5.2%	BE	16.1	4.9%
7	CZ	7.5	3.1%	PL	13.1	4.0%
8	HU	7.3	3.1%	AT	10.8	3.3%
9	PL	6.6	2.8%	HU	10.6	3.2%
10	SK	5.7	2.4%	CZ	6.6	2.0%
11	AT	5.3	2.2%	PT	5.1	1.5%
12	FI	3.4	1.4%	EL	4.1	1.3%
13	BG	2.7	1.1%	SK	3.7	1.1%
14	RO	2.7	1.1%	BG	2.6	0.8%
15	IE	2.5	1.0%	FI	2.2	0.7%
16	LT	2.1	0.9%	LT	1.9	0.6%
17	PT	2.0	0.8%	IE	1.7	0.5%
18	EL	1.7	0.7%	HR	1.3	0.4%
19	LV	1.1	0.5%	RO	1.2	0.4%
20	HR	0.9	0.4%	LV	1.2	0.4%
21	SI	0.8	0.3%	SE	1.0	0.3%
22	SE	0.8	0.3%	SI	0.7	0.2%
23	LU	0.7	0.3%	LU	0.7	0.2%
24	EE	0.7	0.3%	EE	0.4	0.1%
25	DK	0.0	0.0%	DK	0.3	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%		243.8	74.0%
Total EU27_2020		240.4	100.0%		329.6	100.0%

2.2.3 Imports – Natural Gas

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

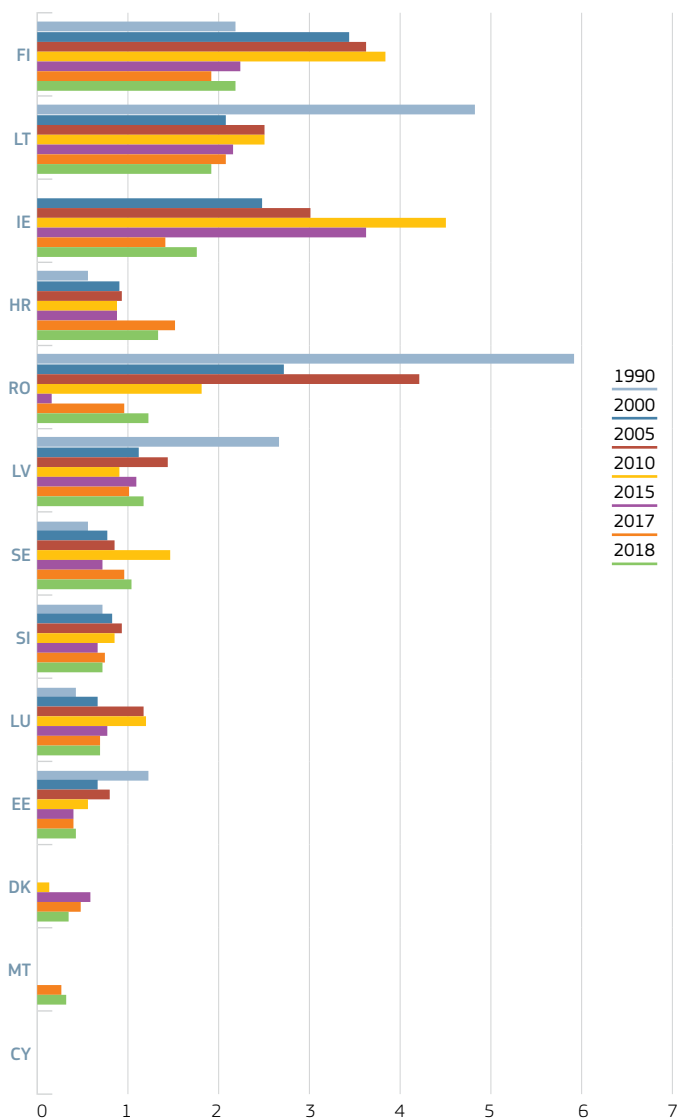


Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.2.3 Imports – Natural Gas

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



Source: Eurostat, May 2020

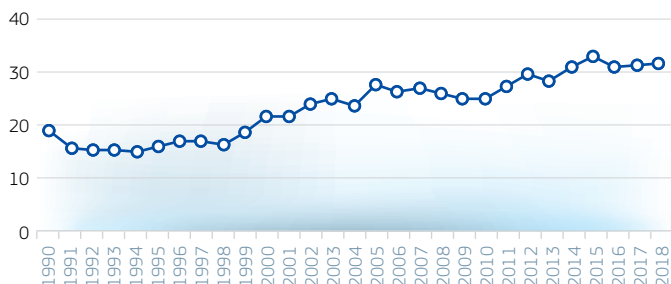
Methodology and Notes: [See Appendices](#)

2.2.4 Imports – Electricity

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	21.7	27.9	25.1	33.3	31.5	32.0
Index 2000	100 %	129 %	116 %	154 %	146 %	148 %
BE	1.00	1.23	1.07	2.04	1.22	1.86
BG	0.08	0.07	0.10	0.37	0.32	0.19
CZ	0.75	1.06	0.57	1.39	1.30	1.00
DK	0.72	1.11	0.91	1.35	1.31	1.34
DE	3.88	4.89	3.69	3.18	2.39	2.73
EE	0.03	0.03	0.09	0.47	0.20	0.26
IE	0.01	0.18	0.07	0.15	0.10	0.14
EL	0.15	0.48	0.73	0.95	0.75	0.74
ES	1.05	0.88	0.45	1.29	2.04	2.07
FR	0.32	0.69	1.67	0.86	1.82	1.17
HR	0.38	0.75	1.07	1.13	1.05	1.09
IT	3.85	4.32	3.95	4.37	3.69	4.06
CY	0.00	0.00	0.00	0.00	0.00	0.00
LV	0.18	0.25	0.34	0.45	0.35	0.44
LT	0.44	0.49	0.70	0.68	1.03	1.10
LU	0.55	0.55	0.63	0.65	0.65	0.65
HU	0.82	1.34	0.85	1.71	1.70	1.60
MT	0.00	0.00	0.00	0.09	0.08	0.05
NL	1.97	2.04	1.34	2.64	1.93	2.30
AT	1.19	1.75	1.71	2.53	2.52	2.41
PL	0.28	0.43	0.54	1.24	1.14	1.19
PT	0.40	0.83	0.50	0.69	0.47	0.49
RO	0.07	0.20	0.07	0.39	0.42	0.32
SI	0.36	0.80	0.74	0.78	0.79	0.77
SK	0.51	0.69	0.63	1.29	1.34	1.07
FI	1.05	1.54	1.35	1.85	1.91	1.94
SE	1.57	1.25	1.28	0.80	1.02	1.05
UK	1.23	0.96	0.61	1.97	1.56	1.83
EU28	22.88	28.82	25.68	35.31	33.08	33.85

IMPORTS – ELECTRICITY – 1990-2018 (Mtoe)

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

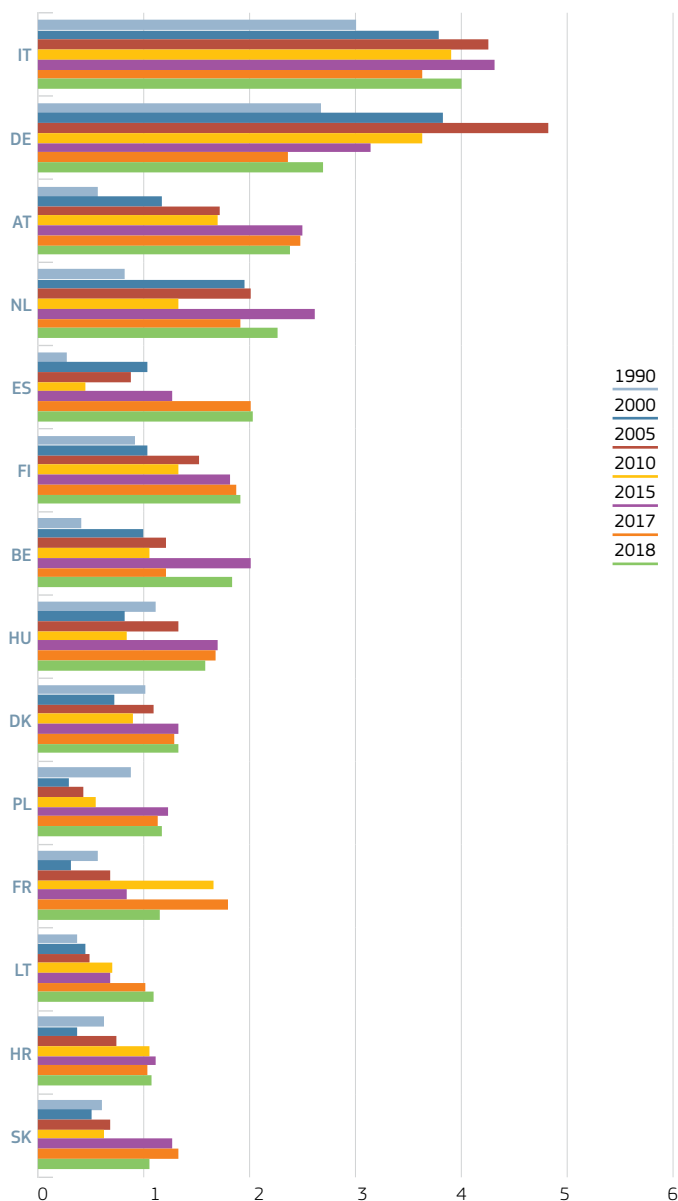
2.2.4 Imports – Electricity

RANKING

Mtoe and % EU27_2020 Ranking	2000			2018		
	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Electricity						
1	DE	3.88	17.9%	IT	4.06	12.7%
2	IT	3.85	17.8%	DE	2.73	8.5%
3	NL	1.97	9.1%	AT	2.41	7.5%
4	SE	1.57	7.3%	NL	2.30	7.2%
5	AT	1.19	5.5%	ES	2.07	6.4%
6	ES	1.05	4.9%	FI	1.94	6.1%
7	FI	1.05	4.8%	BE	1.86	5.8%
8	BE	1.00	4.6%	HU	1.60	5.0%
9	HU	0.82	3.8%	DK	1.34	4.2%
10	CZ	0.75	3.5%	PL	1.19	3.7%
11	DK	0.72	3.3%	FR	1.17	3.6%
12	LU	0.55	2.6%	LT	1.10	3.4%
13	SK	0.51	2.4%	HR	1.09	3.4%
14	LT	0.44	2.0%	SK	1.07	3.3%
15	PT	0.40	1.9%	SE	1.05	3.3%
16	HR	0.38	1.7%	CZ	1.00	3.1%
17	SI	0.36	1.7%	SI	0.77	2.4%
18	FR	0.32	1.5%	EL	0.74	2.3%
19	PL	0.28	1.3%	LU	0.65	2.0%
20	LV	0.18	0.8%	PT	0.49	1.5%
21	EL	0.15	0.7%	LV	0.44	1.4%
22	BG	0.08	0.4%	RO	0.32	1.0%
23	RO	0.07	0.3%	EE	0.26	0.8%
24	EE	0.03	0.1%	BG	0.19	0.6%
25	IE	0.01	0.1%	IE	0.14	0.4%
26	CY	0.00	0.0%	MT	0.05	0.2%
27	MT	0.00	0.0%	CY	0.00	0.0%
Top 5 Total		12.5	57.6%		13.6	42.4%
Total EU27_2020		21.7	100.0%		32.0	100.0%

2.2.4 Imports – Electricity

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

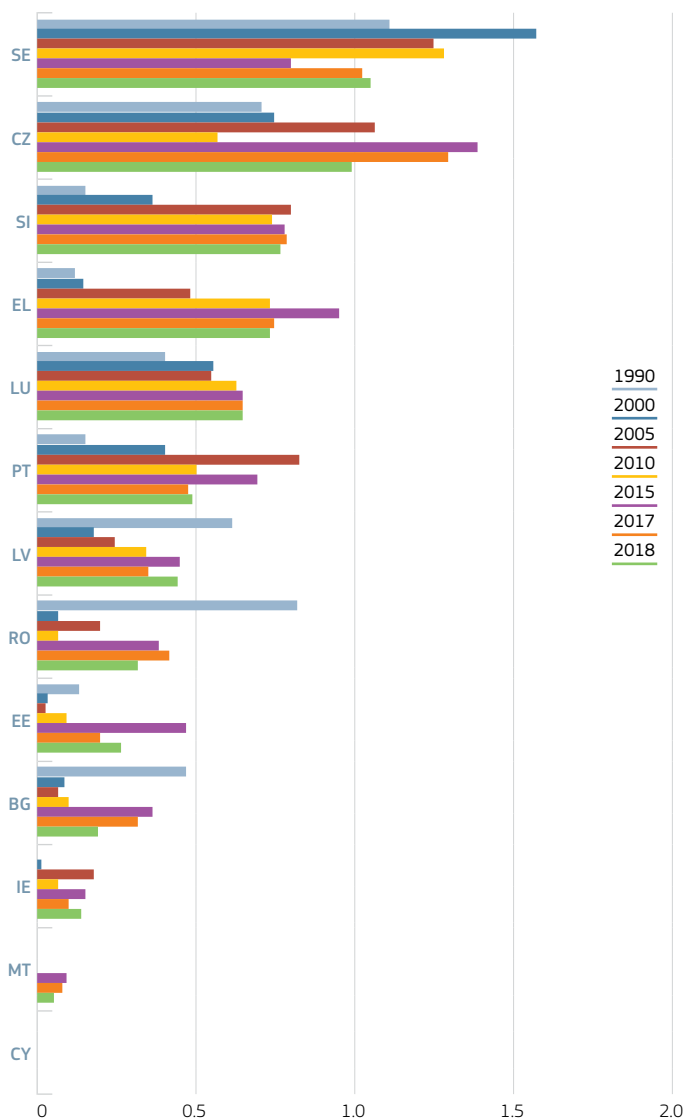


Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.2.4 Imports – Electricity

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



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

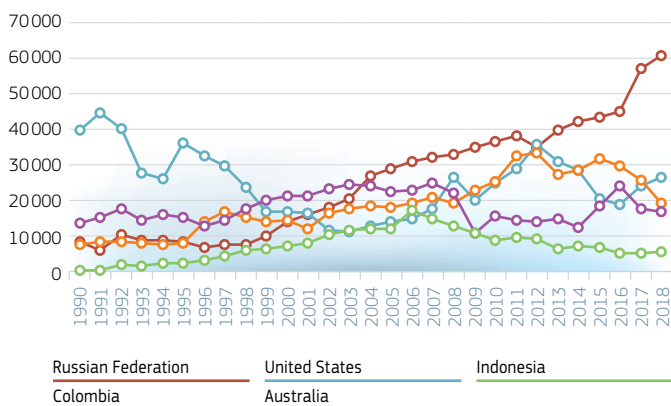
2.2.5 Imports by Country of Origin

EU27_2020 – HARD COAL

TOP 15 ORDERED BY 2018 VOLUME

kton	2000	2005	2010	2015	2017	2018
Russian Federation	14179	29302	36786	43553	57358	60998
United States	16950	14023	25248	20620	24181	26723
Colombia	14566	18282	25414	32168	25941	19334
Australia	21576	22596	15756	18550	17718	16987
Indonesia	7233	12314	9051	7005	5332	5443
South Africa	34466	36295	15762	12717	7689	4069
Canada	4675	5531	3137	2707	3955	3693
Mozambique	70	0	0	838	1942	2545
Kazakhstan	0	932	332	873	1010	1401
United Kingdom	347	181	141	145	1419	1131
Not specified	4984	3132	7579	11526	2751	874
Ukraine	2058	4209	3024	817	514	335
Chile	0	0	0	98	370	290
Norway	750	1045	930	571	205	118
China including Hong Kong	1579	390	50	72	63	52
Other extra-EU	3730	2134	775	421	255	33
kton						
Extra-EU	127163	150366	143984	152680	150703	144027
Intra-EU	28432	24431	20515	13835	12838	10206
Total Intra-EU and Extra-EU	155595	174797	164498	166516	163541	154232

EU27_2020 – HARD COAL – IMPORTS FROM EXTRA-EU (1990-2018) TOP 5 ORDERED BY 2018 VOLUME (kton)



Source: Eurostat, May 2020

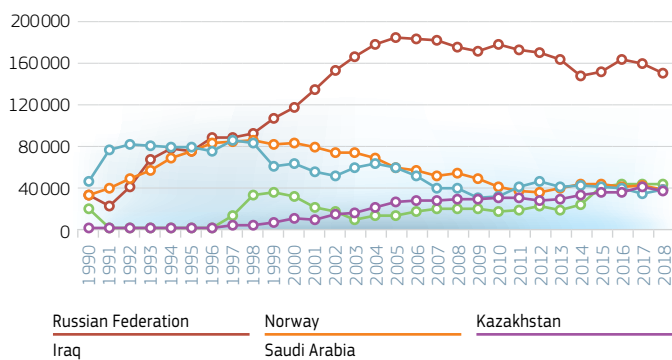
Methodology and Notes: [See Appendices](#)

2.2.5 Imports by Country of Origin

EU27_2020 – CRUDE OIL & NGL

TOP 15 ORDERED BY 2018 VOLUME

kton	2000	2005	2010	2015	2017	2018
Russian Federation	118 282	186 376	179 253	152 630	160 748	152 072
Iraq	31 317	12 290	16 945	40 078	43 892	44 020
Norway	83 622	60 053	40 523	42 990	41 922	38 455
Saudi Arabia	63 036	59 427	30 759	40 264	34 026	37 775
Kazakhstan	9 993	26 349	29 654	35 185	40 125	36 909
Nigeria	22 530	18 293	19 746	39 233	30 083	35 958
Libya	45 540	50 136	50 929	12 678	25 641	31 518
Azerbaijan	3 712	7 255	22 840	27 297	24 201	23 332
United Kingdom	45 810	29 133	28 609	20 291	21 583	20 133
Iran	35 460	35 547	29 584	0	28 332	19 975
United States	0	0	28	1 798	6 505	13 738
Mexico	9 041	10 205	6 782	12 980	11 515	10 829
Algeria	20 565	20 972	6 990	17 644	11 785	10 728
Angola	3 861	7 025	8 367	19 436	5 302	7 034
Brazil	133	2 658	4 103	2 971	6 182	5 616
Other extra-EU	49 178	37 204	37 216	45 274	32 028	26 720
kton						
Extra-EU	542 081	562 923	512 328	510 750	523 870	514 811
Intra-EU	13 908	16 945	9 485	9 282	6 357	5 350
Total Intra-EU and Extra-EU	555 989	579 867	521 813	520 031	530 227	520 160
Mio barrels						
Extra-EU	3 974	4 127	3 756	3 744	3 841	3 774
Intra-EU	102	124	70	68	47	39
Total Intra-EU and Extra-EU	4 076	4 251	3 826	3 813	3 887	3 813

EU27_2020 – CRUDE OIL & NGL – IMPORTS FROM EXTRA-EU
(1990-2018) TOP 5 ORDERED BY 2018 VOLUME (kton)

Source: Eurostat, May 2020

Methodology and Notes: See Appendices

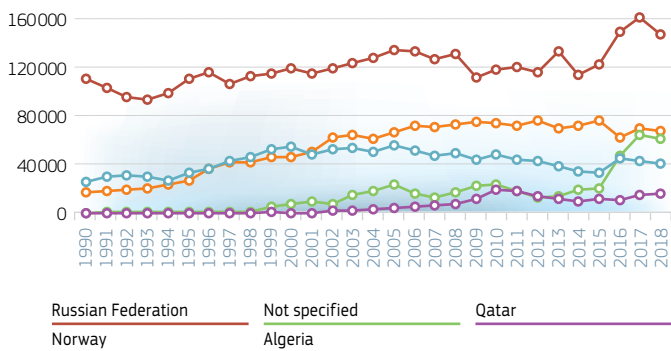
2.2.5 Imports by Country of Origin

EU27_2020 – NATURAL GAS

TOP 8 ORDERED BY 2018 VOLUME

TJ (GCV)	2000	2005	2010	2015	2017	2018
Russia	4 582 197	5 207 617	4 555 369	4 778 474	6 280 559	5 704 385
Norway	1 880 469	2 579 666	2 876 470	2 949 504	2 689 862	2 555 821
Not specified	334 765	937 384	957 962	815 898	2 391 357	2 291 642
Algeria	2 203 075	2 240 256	1 944 865	1 352 071	1 718 334	1 660 789
Qatar	12 443	195 713	798 681	472 595	615 065	654 356
Nigeria	172 020	436 319	562 811	249 411	404 227	421 507
UK	427 099	263 085	490 364	480 219	451 261	335 272
Libya	33 442	209 499	381 660	269 748	176 820	170 169
Other extra-EU	85 416	502 132	369 247	128 193	299 235	314 103
Extra-EU	9 730 926	12 571 671	12 937 429	11 496 114	15 026 720	14 108 044
Intra-EU	1 453 115	1 865 252	1 951 150	2 738 216	1 347 653	1 224 087
Total Intra-EU and Extra-EU	11 184 041	14 436 923	14 888 579	14 234 330	16 374 373	15 332 131
Mio m ³						
Russia	120 699	136 283	119 665	124 320	163 072	148 947
Norway	46 847	67 641	74 994	77 124	71 217	68 685
Not specified	8 126	23 866	24 111	20 962	65 745	62 702
Algeria	55 513	56 588	49 289	33 776	43 499	42 020
Qatar	309	4 859	20 045	12 063	15 597	16 619
Nigeria	4 385	10 586	13 682	6 173	9 949	10 408
UK	12 044	7 046	13 481	13 053	12 735	9 558
Libya	830	5 445	9 980	7 080	4 641	4 466
Other extra-EU	2 174	12 633	9 167	3 235	7 474	7 959
Extra-EU	250 927	324 947	334 414	297 785	393 929	371 365
Intra-EU	41 231	49 492	51 446	71 747	36 590	32 953
Total Intra-EU and Extra-EU	292 158	374 439	385 860	369 532	430 519	404 317

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



Source: Eurostat, May 2020

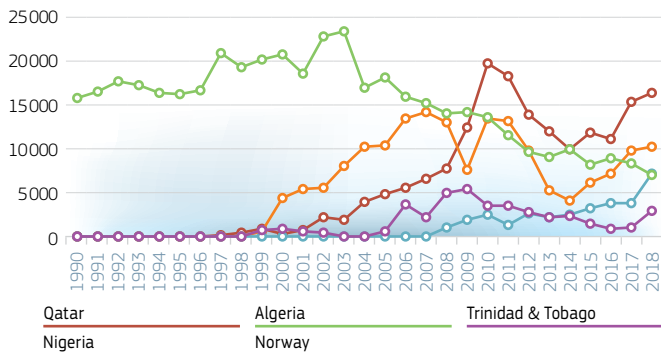
Methodology and Notes: [See Appendices](#)

2.2.5 Imports by Country of Origin

EU27_2020 – LNG

TOP 8 ORDERED BY 2018 VOLUME

TJ (GCV)	2000	2005	2010	2015	2017	2018
Qatar	12 443	195 713	798 681	472 595	615 065	654 356
Nigeria	172 020	436 319	562 811	249 411	404 227	421 507
Algeria	871 464	758 810	568 072	342 350	345 810	289 100
Norway	0	0	104 694	120 466	143 094	257 576
Trinidad & Tobago	36 334	26 453	145 341	58 483	37 304	114 814
Russian Federation	0	0	115	1 077	1 233	76 404
United States	0	0	0	0	66 968	72 805
Peru	0	0	3 254	42 295	145 528	71 816
Other extra-EU	64 704	336 010	253 342	3 599	40 876	74 594
Extra-EU	1 156 965	1 753 305	2 436 310	1 290 277	1 800 104	2 032 971
Intra-EU	0	0	3 153	202	9 272	14 619
Total Intra-EU and Extra-EU	1 156 965	1 753 305	2 439 463	1 290 479	1 809 376	2 047 590
Mio m ³						
Qatar	309	4 859	20 045	12 063	15 597	16 619
Nigeria	4 385	10 586	13 682	6 173	9 949	10 408
Norway	0	0	2 598	3 324	3 867	7 221
Algeria	21 093	18 436	13 730	8 364	8 477	7 130
Trinidad & Tobago	902	671	3 594	1 492	975	2 959
Russian Federation	0	0	3	29	32	1 863
United States	0	0	0	0	1 674	1 840
Peru	0	0	82	1 042	3 593	1 774
Other extra-EU	1 605	8 247	6 266	90	1 001	1 840
Extra-EU	28 294	42 799	60 000	32 577	45 166	51 655
Intra-EU	0	0	78	5	230	344
Total Intra-EU and Extra-EU	28 294	42 799	60 078	32 582	45 396	51 999

EU27_2020 – LNG – IMPORTS FROM EXTRA-EU
(1990-2018) TOP 5 BY 2018 VOLUME (Mio m³)

Source: Eurostat, January 2020

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	2017	2018
EU27_2020	56.3	57.8	55.7	56.0	57.5	58.2
Index 2000	100.0	102.7	99.0	99.4	102.2	103.4
Intra and Extra-EU Imports						
BE	78.2	80.0	77.9	83.4	74.4	82.3
BG	46.4	47.3	40.1	36.4	39.4	36.4
CZ	22.7	27.8	25.3	31.9	37.2	36.7
DK	-35.9	-50.6	-16.0	13.0	12.3	23.7
DE	59.4	60.7	60.0	62.1	64.0	63.6
EE	33.8	28.2	15.5	9.8	3.9	0.7
IE	85.4	89.6	87.1	88.7	67.0	67.4
EL	69.1	68.2	68.6	71.0	71.3	70.7
ES	76.8	81.5	77.1	72.8	73.7	73.3
FR	51.2	51.7	48.7	45.9	48.6	46.6
HR	48.5	52.6	46.7	48.8	53.1	52.7
IT	86.5	83.3	82.6	77.0	77.0	76.3
CY	98.6	100.7	100.6	97.3	95.9	92.5
LV	61.0	63.8	45.5	51.2	44.1	44.3
LT	57.8	55.3	79.0	75.5	72.0	74.2
LU	99.6	97.4	97.0	95.9	95.5	95.1
HU	55.0	62.3	56.9	53.9	62.5	58.1
MT	100.2	100.0	99.0	97.3	103.0	97.8
NL	38.3	37.8	28.3	48.5	51.9	59.7
AT	65.5	71.8	62.8	60.4	63.9	64.3
PL	10.7	17.7	31.6	29.9	38.3	44.8
PT	85.3	88.6	75.2	76.3	77.9	75.6
RO	21.9	27.5	21.4	16.7	23.3	24.3
SI	52.8	52.5	49.5	49.7	51.0	51.3
SK	65.1	66.0	64.4	60.1	64.8	63.7
FI	55.5	54.5	48.8	48.0	44.0	44.9
SE	39.3	37.9	37.8	30.0	26.6	29.2
UK	-17.1	13.4	29.0	37.7	35.5	35.4
EU28	46.5	52.2	52.6	53.9	55.1	55.7

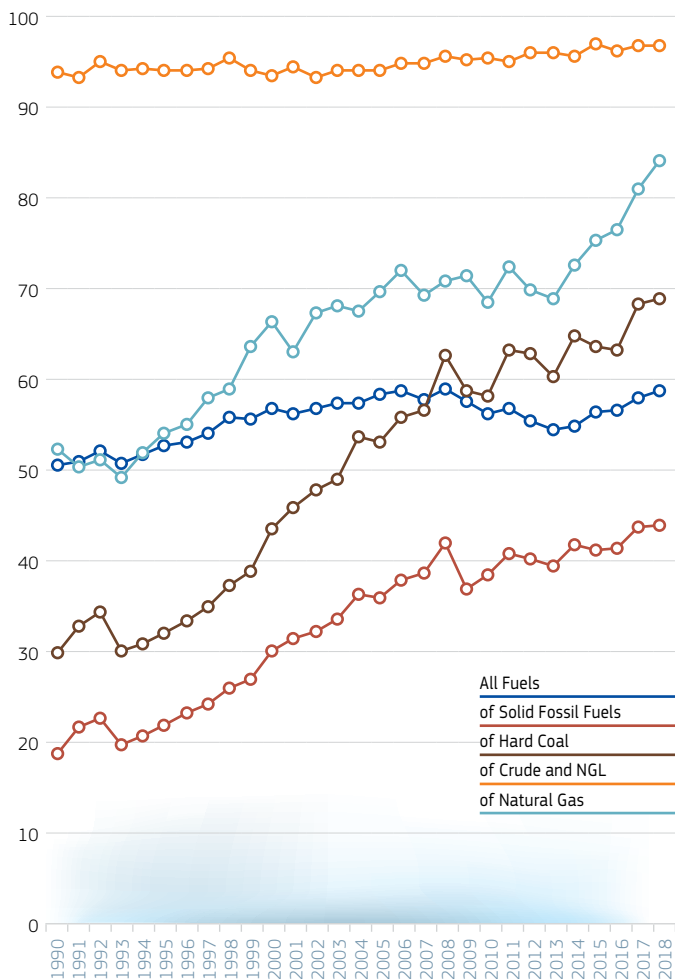
* Negative Rate Indicates a Net Exporter.
 Values Over 100% Indicate Stocks Build Up.
 EU27_2020 and EU28: imports from extra-EU

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.3.2 Import Dependency by Fuel

EU27_2020 – IMPORTS FROM EXTRA-EU – 1990-2018 (%)



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.3.3 Import Dependency – Solid Fossil Fuels * (%)

Imports from Extra-EU	2000	2005	2010	2015	2017	2018
EU27_2020	29.8	35.7	38.2	40.9	43.3	43.6
Index 2000	100.0	119.6	128.1	137.2	145.0	146.2
Intra and Extra-EU Imports						
BE	91.2	101.3	97.5	95.5	94.8	104.1
BG	35.2	36.9	24.5	11.2	9.4	10.1
CZ	-22.0	-16.2	-15.3	-1.8	3.0	5.3
DK	94.9	94.4	69.4	85.0	115.9	102.1
DE	25.6	31.7	40.0	45.4	45.3	42.1
EE	125.2	88.4	132.6	-6.8	87.2	85.2
IE	93.3	100.8	77.7	103.1	111.0	114.5
EL	8.5	4.1	5.1	2.8	4.8	5.1
ES	61.3	70.3	92.8	75.4	84.6	78.0
FR	86.3	94.4	101.0	98.4	101.9	101.0
HR	110.9	91.3	102.5	103.0	100.7	91.3
IT	104.6	99.4	100.8	100.2	100.2	101.0
CY	102.0	121.1	65.6	100.0	326.4	97.5
LV	84.1	97.7	106.5	85.2	88.5	91.3
LT	101.7	101.0	95.7	90.6	107.8	99.0
LU	100.0	100.0	100.0	100.0	100.0	100.0
HU	28.1	42.5	41.9	33.7	44.1	48.1
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	99.4	101.3	101.4	96.5	100.8	99.8
AT	83.9	99.4	99.7	86.9	100.0	98.2
PL	-29.0	-23.8	-5.0	-11.4	-3.0	8.2
PT	102.9	96.3	98.3	98.5	105.6	98.9
RO	25.5	33.2	16.9	16.7	18.4	17.6
SI	18.8	21.0	19.3	19.1	17.4	18.9
SK	80.2	88.3	75.7	84.5	87.8	91.9
FI	97.6	102.0	86.3	92.4	91.5	100.6
SE	105.4	105.9	113.7	97.4	101.3	100.3
UK	39.6	72.3	50.3	59.2	58.7	82.6
EU28	31.0	40.1	39.6	42.7	43.9	45.1

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

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.3.4 Import Dependency – Hard Coal *

(%)

Imports from Extra-EU	2000	2005	2010	2015	2017	2018
EU27_2020	43.2	52.5	57.7	62.9	67.7	68.3
Index 2000	100.0	121.5	133.4	145.5	156.5	157.9
Intra and Extra-EU Imports						
BE	93.5	102.0	100.0	96.1	94.2	105.8
BG	101.0	94.0	86.0	96.1	96.7	83.9
CZ	-56.4	-49.4	-53.9	-8.6	17.8	26.8
DK	94.8	94.3	69.3	85.0	116.0	102.0
DE	39.2	57.7	73.2	87.6	93.4	87.4
EE	116.1	96.4	118.3	24.1	93.8	88.0
IE	93.1	100.8	77.5	103.1	111.4	114.9
EL	105.8	112.4	100.5	91.5	109.3	87.4
ES	71.5	79.1	95.7	79.6	89.0	80.9
FR	87.2	92.8	100.6	97.0	100.4	101.4
HR	112.8	90.6	102.7	102.4	100.9	90.6
IT	105.7	99.7	101.4	100.5	100.2	101.1
CY	102.0	121.2	65.4	100.0	326.4	97.5
LV	82.5	96.7	106.6	85.2	88.5	91.3
LT	100.0	100.0	109.7	90.1	109.0	98.8
LU	100.0	100.0	100.0	100.0	100.0	100.0
HU	96.4	108.3	99.2	99.2	101.7	102.7
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	98.9	100.0	101.6	96.5	101.4	99.5
AT	91.6	106.8	97.3	83.5	100.3	96.0
PL	-29.9	-21.3	3.7	-2.4	7.2	20.2
PT	103.4	96.3	98.3	98.5	105.6	98.9
RO	96.3	103.1	88.4	96.9	102.2	103.3
SI	118.2	100.0	135.3	124.2	100.7	90.4
SK	103.8	105.2	91.9	97.5	100.1	100.9
FI	97.7	102.6	85.5	89.8	90.3	99.7
SE	107.7	104.3	115.2	99.6	105.3	97.1
UK	39.4	71.6	50.5	58.0	55.5	80.4
EU28	42.6	55.8	56.5	62.3	66.9	68.9

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

Source: Eurostat, May 2020
 Methodology and Notes: [See Appendices](#)

2.3.5 Import Dependency – Oil and Petroleum Products * (%)

Imports from Extra-EU	2000	2005	2010	2015	2017	2018
EU27_2020	93.3	93.9	94.0	96.7	93.8	94.6
Index 2000	100.0	100.6	100.8	103.7	100.5	101.4
Intra and Extra-EU Imports						
BE	100.2	100.8	101.3	103.8	97.1	100.7
BG	96.0	102.5	101.9	101.8	101.6	96.2
CZ	95.3	97.5	96.5	97.8	97.1	99.5
DK	-84.0	-104.4	-44.3	5.3	-4.7	19.2
DE	94.6	97.3	96.8	96.5	95.8	95.5
EE	101.5	98.8	95.8	101.7	115.4	84.3
IE	98.8	100.0	97.5	104.6	98.2	98.0
EL	100.3	97.8	98.7	105.5	98.1	97.9
ES	101.0	101.2	99.9	102.2	97.8	99.0
FR	99.5	99.5	98.0	98.7	99.2	97.7
HR	61.0	79.4	80.6	81.4	77.1	82.1
IT	96.1	91.8	93.6	89.4	91.5	89.8
CY	100.3	102.3	104.2	102.8	100.9	99.2
LV	94.9	102.2	94.4	102.9	100.1	98.1
LT	101.0	93.4	98.7	100.7	95.0	98.4
LU	102.1	99.4	99.3	99.3	99.7	99.7
HU	75.9	82.0	85.3	93.7	86.6	85.9
MT	100.2	100.0	99.2	97.9	104.2	97.4
NL	97.4	96.2	94.2	101.2	90.4	93.9
AT	89.0	92.1	90.4	93.8	92.2	94.0
PL	99.7	98.5	98.2	99.5	98.6	98.7
PT	99.4	102.3	97.5	101.7	100.2	104.2
RO	34.4	38.6	52.6	54.2	61.3	63.1
SI	101.5	101.2	99.2	99.6	103.2	99.2
SK	92.5	97.4	98.4	100.6	97.5	101.3
FI	104.1	99.1	92.3	109.6	96.4	98.6
SE	100.8	103.9	93.7	114.6	86.8	94.1
UK	-54.4	-3.1	14.1	36.7	35.6	28.5
EU28	75.3	82.3	84.7	89.4	86.8	86.6

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

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.3.6 Import Dependency – Crude and NGL *

(%)

Imports from Extra-EU	2000	2005	2010	2015	2017	2018
EU27_2020	92.5	93.0	94.4	95.9	95.6	95.7
Index 2000	100.0	100.5	102.0	103.7	103.3	103.5
Intra and Extra-EU Imports						
BE	100.2	99.5	99.9	100.0	100.1	100.0
BG	98.7	97.7	99.1	100.5	101.1	99.5
CZ	95.2	99.3	97.5	98.4	99.1	98.6
DK	-120.5	-141.3	-68.8	-4.9	9.7	25.3
DE	93.8	97.3	97.3	97.1	97.4	97.1
EE	0.0	0.0	0.0	0.0	0.0	0.0
IE	89.8	98.9	101.6	108.2	91.7	98.7
EL	99.6	95.2	99.6	101.5	97.9	99.2
ES	100.6	100.1	99.3	99.5	99.9	99.5
FR	98.5	98.2	98.2	98.8	99.3	97.7
HR	72.1	78.9	82.3	79.6	79.3	81.2
IT	95.1	94.0	94.5	92.2	93.6	91.9
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	99.5	99.2
LU	0.0	0.0	0.0	0.0	0.0	0.0
HU	78.5	81.8	85.3	91.4	86.0	86.3
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	96.7	96.7	97.6	98.0	97.6	98.2
AT	86.9	88.8	86.5	91.1	89.1	92.7
PL	99.2	97.4	98.4	100.5	97.2	98.3
PT	99.0	100.2	98.8	100.9	100.4	100.9
RO	43.5	62.0	57.2	63.0	67.3	70.8
SI	87.2	0.0	0.0	0.0	0.0	0.0
SK	97.6	97.8	99.9	99.3	99.5	100.0
FI	101.5	97.5	101.1	104.2	98.9	100.1
SE	100.6	100.4	99.0	103.6	98.0	99.3
UK	-47.9	-0.2	12.8	22.9	17.2	6.0
EU28	73.9	81.3	84.5	88.5	88.1	87.3

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

Source: Eurostat, May 2020
 Methodology and Notes: [See Appendices](#)

2.3.7 Import Dependency – Natural Gas *

(%)

Imports from Extra-EU	2000	2005	2010	2015	2017	2018
EU27_2020	65.7	69.0	67.8	74.5	80.2	83.2
Index 2000	100.0	105.0	103.1	113.3	122.0	126.7
Intra and Extra-EU Imports						
BE	99.3	100.5	100.3	99.3	98.4	100.6
BG	93.5	87.7	92.6	97.0	97.6	98.7
CZ	99.8	97.8	84.8	95.1	101.9	96.8
DK	-64.8	-113.9	-68.3	-48.2	-56.2	-38.5
DE	79.1	79.6	81.2	90.1	91.4	95.9
EE	100.0	100.0	100.0	100.0	100.0	100.0
IE	72.1	86.1	95.3	96.3	32.7	38.8
EL	99.1	99.1	99.9	99.9	100.5	100.7
ES	101.6	101.4	99.4	96.9	101.3	101.4
FR	100.0	99.3	92.8	98.5	98.0	104.7
HR	41.0	23.7	18.1	27.1	53.8	53.3
IT	81.1	84.7	90.5	90.4	92.3	92.9
CY	0.0	0.0	0.0	0.0	0.0	0.0
LV	101.9	105.6	61.8	98.6	102.0	98.8
LT	100.0	100.7	99.7	99.7	99.3	98.9
LU	100.0	100.0	100.0	100.0	100.0	100.0
HU	75.4	81.1	78.7	69.7	96.2	77.9
MT	0.0	0.0	0.0	0.0	105.2	109.5
NL	-49.1	-59.3	-60.4	-36.7	-4.4	15.0
AT	80.6	88.5	75.3	72.6	90.2	87.8
PL	66.3	69.7	69.3	72.2	77.8	77.6
PT	100.3	103.8	100.4	100.4	100.4	101.1
RO	19.8	30.1	16.8	1.8	9.7	12.0
SI	99.3	99.6	99.3	99.6	99.0	98.1
SK	98.8	97.5	99.9	95.1	105.6	89.6
FI	100.0	100.0	100.0	100.0	99.1	100.3
SE	100.0	100.0	100.0	100.0	102.1	102.1
UK	-10.7	7.0	40.0	43.3	45.0	49.4
EU28	48.9	57.1	62.5	69.1	74.3	77.4

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

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

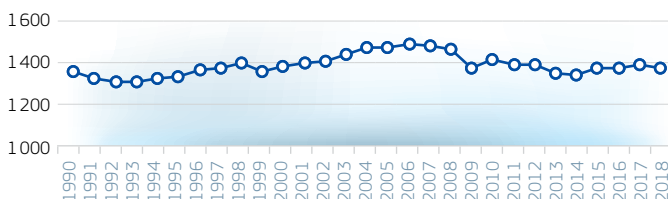
2.4 Energy Transformation

2.4.1 Transformation Input – All Fuels

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	1 383.5	1 471.1	1 415.1	1 374.5	1 391.2	1 374.9
Index 2000	100%	106%	102%	99%	101%	99%
BE	68.63	67.35	68.59	61.02	65.49	60.09
BG	18.61	20.99	18.84	19.72	20.16	18.90
CZ	31.82	37.02	37.44	34.64	34.93	34.92
DK	18.05	16.31	16.61	17.83	17.92	18.71
DE	292.34	313.34	291.21	280.71	280.15	269.12
EE	3.50	3.84	4.83	4.61	5.25	5.80
IE	8.59	8.85	8.53	8.55	8.68	8.39
EL	35.80	35.59	35.28	40.12	44.66	45.67
ES	115.16	126.81	121.90	133.10	135.77	136.37
FR	234.01	242.41	227.60	213.04	206.96	204.93
HR	7.71	7.88	6.78	5.40	6.09	6.21
IT	163.61	176.39	161.45	136.66	139.37	134.88
CY	2.08	1.09	1.21	0.97	1.07	1.08
LV	1.39	1.66	1.49	1.39	1.62	1.64
LT	9.43	14.78	12.53	11.86	12.92	12.43
LU	0.20	0.69	0.74	0.43	0.35	0.36
HU	19.87	21.66	23.01	18.92	18.10	18.49
MT	0.50	0.61	0.58	0.28	0.31	0.32
NL	104.43	111.74	113.01	118.04	120.10	125.19
AT	20.35	22.52	22.53	23.09	23.22	22.74
PL	72.87	72.58	79.74	83.18	82.29	83.94
PT	20.97	22.98	20.73	25.26	26.88	24.67
RO	29.11	32.20	26.03	26.06	26.17	26.27
SI	3.11	3.41	3.41	2.95	3.21	3.16
SK	16.91	18.73	17.34	17.09	16.99	16.24
FI	32.41	34.11	38.80	32.93	35.58	35.79
SE	52.05	55.51	54.86	56.67	56.96	58.64
UK	200.45	193.08	169.71	145.51	137.38	133.72
EU28	1 583.97	1 664.15	1 584.79	1 520.03	1 528.54	1 508.67

TRANSFORMATION INPUT – ALL FUELS – 1990-2018 (Mtoe)

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.4.2 Transformation Input by Fuel

	2018						
	Transformation Input	Solid Fossil Fuels	Oil & Petroleum Products	Natural Gas	Nuclear	Renewables & Biofuels	Waste, Non-Renewable
Mtoe							
EU27_2020	1 374.9	212.2	705.1	95.4	195.7	137.8	9.3
Share (%)	100.0%	15.4%	51.3%	6.9%	14.2%	10.0%	0.7%
BE	60.09	3.21	41.27	3.78	7.45	2.72	0.50
BG	18.90	5.35	6.97	1.01	4.17	1.28	0.03
CZ	34.92	15.14	8.25	1.39	7.45	1.85	0.06
DK	18.71	1.63	11.61	0.79	0.00	4.25	0.39
DE	269.12	73.29	123.25	17.30	19.57	29.59	2.96
EE	5.80	0.00	0.07	0.15	0.00	0.67	0.04
IE	8.39	0.49	3.61	2.50	0.00	1.08	0.09
EL	45.67	4.29	37.02	2.69	0.00	1.63	0.03
ES	136.37	11.93	86.70	8.98	14.48	13.40	0.32
FR	204.93	9.35	62.59	5.84	107.63	16.95	1.33
HR	6.21	0.30	4.17	0.67	0.00	1.07	0.00
IT	134.88	9.38	80.80	23.39	0.00	19.58	0.88
CY	1.08	0.00	1.03	0.00	0.00	0.05	0.00
LV	1.64	0.00	0.00	0.80	0.00	0.84	0.00
LT	12.43	0.00	10.71	0.30	0.00	0.94	0.03
LU	0.36	0.00	0.00	0.07	0.00	0.12	0.02
HU	18.49	2.61	8.45	2.10	4.01	1.06	0.09
MT	0.32	0.00	0.01	0.29	0.00	0.02	0.00
NL	125.19	9.53	100.18	9.49	0.81	3.49	0.81
AT	22.74	3.28	9.94	2.18	0.00	6.12	0.36
PL	83.94	44.68	31.16	3.06	0.00	3.79	0.20
PT	24.67	2.68	15.08	3.11	0.00	3.56	0.09
RO	26.27	4.49	12.98	3.13	2.88	2.70	0.00
SI	3.16	1.06	0.01	0.12	1.36	0.57	0.01
SK	16.24	3.95	6.49	0.80	3.76	1.10	0.01
FI	35.79	3.34	17.95	1.34	5.44	5.79	0.24
SE	58.64	2.14	24.76	0.16	16.73	13.54	0.77
UK	133.72	7.58	71.12	23.36	14.06	15.65	1.17
EU28	1 508.67	219.73	776.18	118.80	209.80	153.43	10.46

2.4.3 Transformation Input by Sector

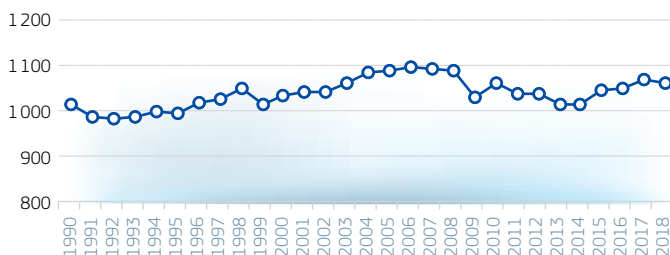
	2018					
	Total, All Sectors	Electricity Producers	Heat Producers	CHP Producers	Refineries, Petroleum & Sub-Products	Other Transformation Input
Mtoe						
EU27_2020	1 374.9	418.5	18.1	154.9	690.1	90.3
Share (%)	100.0 %	30.4 %	1.3 %	11.3 %	50.2 %	6.6 %
BE	60.09	12.04	0.00	3.01	41.24	3.67
BG	18.90	9.66	0.27	1.23	6.90	0.80
CZ	34.92	9.81	0.71	11.39	8.20	4.69
DK	18.71	1.28	1.02	4.50	11.52	0.38
DE	269.12	91.41	3.21	26.26	121.78	25.73
EE	5.80	2.54	0.35	0.62	0.04	2.26
IE	8.39	4.28	0.00	0.29	3.58	0.20
EL	45.67	7.49	0.00	2.27	35.73	0.18
ES	136.37	43.64	0.00	4.32	83.73	4.40
FR	204.93	124.53	2.18	5.83	61.10	10.66
HR	6.21	1.09	0.05	0.78	4.15	0.13
IT	134.88	29.89	0.42	23.41	76.70	4.26
CY	1.08	1.07	0.00	0.01	0.00	0.01
LV	1.64	0.22	0.43	0.94	0.00	0.06
LT	12.43	0.20	0.71	0.68	10.68	0.10
LU	0.36	0.08	0.01	0.12	0.00	0.00
HU	18.49	6.18	0.72	1.35	8.43	1.81
MT	0.32	0.31	0.00	0.00	0.00	0.00
NL	125.19	11.45	0.39	8.71	99.59	5.06
AT	22.74	6.02	0.95	2.54	9.67	3.12
PL	83.94	2.15	2.76	35.88	30.76	12.34
PT	24.67	7.52	0.00	1.66	14.84	0.50
RO	26.27	9.59	0.55	2.77	12.67	0.63
SI	3.16	2.61	0.05	0.41	0.00	0.07
SK	16.24	1.49	0.27	4.66	6.41	3.38
FI	35.79	8.34	1.72	5.58	17.72	2.43
SE	58.64	23.55	1.35	5.70	24.63	3.41
UK	133.72	51.52	2.51	3.55	70.61	5.23
EU28	1 508.67	469.99	20.62	158.49	760.67	95.50

2.4.4 Transformation Output – All Fuels

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	1 031.8	1 089.9	1 059.2	1 045.5	1 069.4	1 062.9
Index 2000	100 %	106 %	103 %	101 %	104 %	103 %
BE	54.28	53.70	54.62	51.95	53.52	50.60
BG	11.62	13.30	12.01	12.91	13.34	12.17
CZ	19.91	22.89	23.27	21.58	22.63	22.29
DK	15.58	14.05	14.17	16.82	16.94	17.70
DE	210.06	227.68	210.02	207.63	211.96	204.20
EE	1.87	2.14	2.55	2.42	2.89	3.13
IE	5.62	5.89	5.98	6.47	6.52	6.44
EL	29.13	28.38	28.76	35.62	40.05	41.37
ES	87.21	96.38	96.88	105.37	107.25	110.37
FR	154.62	151.28	139.32	126.31	125.76	122.57
HR	7.00	7.07	6.14	4.85	5.48	5.69
IT	129.85	141.64	131.20	111.22	114.14	111.20
CY	1.47	0.38	0.46	0.39	0.44	0.44
LV	1.18	1.47	1.29	1.12	1.38	1.33
LT	7.38	12.36	11.86	11.46	12.59	12.12
LU	0.11	0.43	0.47	0.30	0.26	0.27
HU	14.07	15.67	17.08	13.98	13.15	13.62
MT	0.16	0.19	0.18	0.12	0.15	0.17
NL	93.36	99.32	100.58	106.61	108.61	114.65
AT	17.16	18.53	18.60	19.51	19.40	19.42
PL	49.29	49.66	57.00	60.84	60.41	62.33
PT	17.04	18.73	17.71	21.38	22.39	20.68
RO	22.32	25.96	20.64	20.65	20.83	20.99
SI	1.57	1.54	1.69	1.53	1.65	1.69
SK	12.09	13.68	12.72	12.48	12.43	11.89
FI	25.53	26.94	31.14	27.25	30.14	29.73
SE	42.33	40.67	42.89	44.72	45.08	45.76
UK	147.60	139.03	123.66	108.33	106.06	104.09
EU28	1 179.41	1 228.96	1 182.88	1 153.80	1 175.44	1 166.94

TRANSFORMATION OUTPUT – ALL FUELS – 1990-2018 (Mtoe)

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.4.5 Transformation Output by Fuel

	2018						
	Transformation Output	Solid Fossil Fuels	Oil & Petroleum Products	Natural Gas	Renewables & Biofuels	Electricity	Heat
Mtoe							
EU27_2020	1 062.9	29.7	688.8	0.4	15.2	253.3	56.3
Share (%)	100.0 %	2.8 %	64.8 %	0.0 %	1.4 %	23.8 %	5.3 %
BE	50.60	0.88	41.14	0.00	0.48	6.46	0.78
BG	12.17	0.30	6.77	0.00	0.17	4.03	0.91
CZ	22.29	1.98	8.28	0.00	0.28	7.57	2.82
DK	17.70	0.00	11.48	0.17	0.21	2.61	3.22
DE	204.20	9.76	119.23	0.00	2.91	55.30	11.16
EE	3.13	0.01	1.08	0.00	0.00	1.06	0.58
IE	6.44	0.00	3.64	0.00	0.06	2.68	0.00
EL	41.37	0.00	36.56	0.00	0.17	4.58	0.05
ES	110.37	0.98	83.39	0.01	1.71	23.60	0.00
FR	122.57	2.23	60.67	0.06	3.39	50.04	4.18
HR	5.69	0.00	4.18	0.00	0.03	1.17	0.30
IT	111.20	1.30	77.44	0.02	1.26	24.91	5.48
CY	0.44	0.00	0.00	0.00	0.00	0.44	0.00
LV	1.33	0.00	0.00	0.00	0.05	0.58	0.71
LT	12.12	0.00	10.62	0.00	0.09	0.30	1.10
LU	0.27	0.00	0.00	0.00	0.00	0.19	0.07
HU	13.62	0.71	8.40	0.00	0.16	2.75	1.19
MT	0.17	0.00	0.00	0.00	0.00	0.17	0.00
NL	114.65	1.43	98.86	0.11	0.62	9.84	2.53
AT	19.42	0.92	9.48	0.00	0.24	5.90	1.98
PL	62.33	6.68	30.74	0.00	0.86	14.62	7.04
PT	20.68	0.00	14.80	0.00	0.27	5.13	0.48
RO	20.99	0.00	13.17	0.00	0.29	5.58	1.71
SI	1.69	0.00	0.00	0.00	0.07	1.40	0.22
SK	11.89	1.12	6.60	0.00	0.17	2.32	0.75
FI	29.73	0.64	17.60	0.01	0.37	6.04	4.53
SE	45.76	0.74	24.61	0.00	1.32	14.05	4.53
UK	104.09	1.08	70.36	0.25	1.30	28.44	1.58
EU28	1 166.94	30.76	759.11	0.63	16.50	281.75	57.92

2.4.6 Transformation Output by Sector

	2018					
	Total, All Sectors	Electricity Producers	Heat Producers	CHP Producers	Refineries, Petroleum & Sub-Products	Other Transformation Output
Mtoe						
EU27_2020	1 062.9	193.8	15.4	96.3	685.8	69.3
Share (%)	100.0 %	18.2 %	1.5 %	9.1 %	64.5 %	6.5 %
BE	50.60	4.99	0.00	1.87	41.04	2.61
BG	12.17	3.68	0.21	0.97	6.58	0.70
CZ	22.29	3.74	0.62	5.88	8.28	3.67
DK	17.70	1.28	0.99	3.47	11.48	0.48
DE	204.20	44.15	2.63	18.87	119.23	18.79
EE	3.13	0.93	0.27	0.44	0.04	1.45
IE	6.44	2.47	0.00	0.19	3.60	0.17
EL	41.37	3.80	0.00	0.83	36.56	0.17
ES	110.37	20.55	0.00	2.83	83.39	3.40
FR	122.57	47.74	1.83	4.05	60.67	7.82
HR	5.69	0.91	0.04	0.52	4.09	0.12
IT	111.20	15.69	0.36	14.15	77.44	3.42
CY	0.44	0.43	0.00	0.01	0.00	0.00
LV	1.33	0.22	0.36	0.71	0.00	0.05
LT	12.12	0.14	0.51	0.41	10.62	0.38
LU	0.27	0.05	0.01	0.10	0.00	0.00
HU	13.62	2.28	0.65	0.94	8.36	1.39
MT	0.17	0.17	0.00	0.00	0.00	0.00
NL	114.65	6.16	0.23	5.84	98.86	3.56
AT	19.42	4.76	0.80	2.01	9.48	2.06
PL	62.33	1.64	2.41	17.55	30.10	10.60
PT	20.68	4.41	0.00	1.09	14.61	0.46
RO	20.99	4.81	0.48	1.96	13.10	0.61
SI	1.69	1.27	0.04	0.30	0.00	0.07
SK	11.89	0.76	0.22	2.05	6.29	2.55
FI	29.73	4.07	1.48	4.64	17.39	2.15
SE	45.76	12.71	1.28	4.59	24.61	2.57
UK	104.09	26.39	1.58	1.83	70.34	3.72
EU28	1 166.94	220.22	17.00	98.09	756.16	72.99

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.5 Final Energy

2.5.1 Available for Final Consumption

TOTAL

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	1 023.0	1 092.0	1 073.3	993.9	1 039.3	1 035.5
Index 2000	100 %	107 %	105 %	97 %	102 %	101 %
BE	40.82	41.57	42.72	40.87	40.55	40.92
BG	9.68	10.51	9.24	10.07	10.27	10.50
CZ	26.42	28.19	27.77	25.91	27.85	27.57
DK	14.33	14.68	15.02	13.53	14.31	14.36
DE	234.79	235.94	233.13	220.83	228.67	223.73
EE	2.69	3.15	3.00	2.84	2.97	3.04
IE	10.37	11.13	11.27	10.77	11.03	11.31
EL	18.46	20.82	19.16	16.55	16.62	15.98
ES	85.40	101.95	91.43	79.23	85.69	87.73
FR	156.74	167.10	161.69	156.84	157.53	155.34
HR	6.59	7.83	7.73	7.01	7.33	7.17
IT	128.77	139.59	131.73	117.63	121.17	119.95
CY	1.47	1.49	1.69	1.44	1.59	1.63
LV	3.26	4.05	4.06	3.79	3.95	4.11
LT	4.25	5.34	5.42	5.90	6.43	6.56
LU	3.24	4.10	3.93	3.57	3.64	3.78
HU	17.22	20.33	18.86	18.54	19.87	19.89
MT	0.32	0.40	0.42	0.46	0.51	0.52
NL	58.80	62.10	64.82	55.17	58.15	57.90
AT	23.58	27.31	27.77	27.24	28.16	27.88
PL	57.13	61.70	70.36	65.09	74.71	76.62
PT	19.54	20.94	18.93	16.86	17.02	16.96
RO	24.12	25.96	24.80	22.81	24.38	24.90
SI	4.68	5.20	5.24	4.79	5.07	5.12
SK	11.68	11.69	11.47	10.02	11.04	11.19
FI	23.73	25.26	26.36	24.30	25.99	25.99
SE	34.91	33.58	35.26	31.87	34.81	34.82
UK	150.27	148.72	139.22	128.30	128.63	129.73
EU28	1 173.24	1 240.68	1 212.47	1 122.23	1 167.93	1 165.18

Source: Eurostat, January 2020

Methodology and Notes: [See Appendices](#)

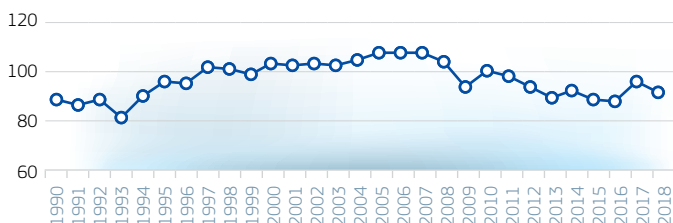
2.5.2 Final Non-Energy Consumption

TOTAL

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	100.8	104.9	98.3	88.4	94.8	91.1
Index 2000	100 %	104 %	98 %	88 %	94 %	90 %
BE	7.00	7.49	7.01	7.65	7.48	7.80
BG	0.98	0.85	0.42	0.60	0.48	0.49
CZ	2.14	3.01	2.88	2.50	2.95	2.96
DK	0.30	0.29	0.26	0.25	0.25	0.24
DE	25.30	24.66	22.58	21.26	22.80	21.52
EE	0.18	0.22	0.09	0.11	0.12	0.12
IE	0.68	0.52	0.34	0.22	0.24	0.24
EL	0.73	0.77	1.11	0.70	0.87	0.91
ES	9.49	8.43	7.11	4.35	4.93	5.23
FR	16.27	16.08	13.93	14.00	14.22	13.39
HR	0.66	0.67	0.60	0.53	0.53	0.48
IT	8.43	8.61	9.56	6.61	7.91	7.15
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	1.21	1.13
LU	0.05	0.03	0.03	0.03	0.03	0.04
HU	1.59	2.17	1.97	1.91	2.19	2.21
MT	0.00	0.02	0.01	0.01	0.01	0.01
NL	11.33	13.58	14.37	12.23	13.54	12.82
AT	1.72	1.59	1.81	1.80	1.68	1.85
PL	4.37	4.60	4.97	5.63	5.91	5.64
PT	2.42	2.59	1.73	1.34	1.20	0.72
RO	1.89	2.63	2.06	1.12	1.08	1.02
SI	0.24	0.31	0.21	0.13	0.14	0.15
SK	1.38	1.28	1.05	1.05	1.10	1.26
FI	1.04	1.15	1.22	1.33	1.44	1.44
SE	1.75	2.42	2.12	1.78	2.39	2.18
UK	11.30	11.35	7.90	7.36	8.13	7.95
EU28	112.06	116.22	106.17	95.75	102.96	99.10

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

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

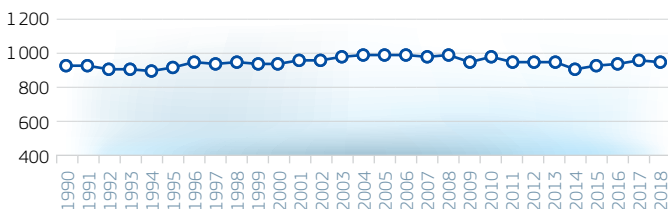
2.5.3 Final Energy Consumption

TOTAL

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	926.6	986.6	973.0	909.1	940.4	939.7
Index 2000	100 %	106 %	105 %	98 %	101 %	101 %
BE	33.64	33.96	35.03	33.11	32.94	33.11
BG	8.59	9.60	8.70	9.39	9.74	9.75
CZ	23.99	24.89	24.12	23.10	24.44	24.18
DK	14.02	14.73	14.85	13.51	14.00	14.07
DE	207.17	207.29	209.92	199.97	204.46	200.87
EE	2.41	2.83	2.88	2.74	2.80	2.89
IE	10.22	11.84	11.29	10.40	10.74	11.22
EL	17.91	20.23	18.37	15.74	15.72	15.17
ES	76.34	93.86	85.48	76.19	79.97	82.02
FR	145.81	150.75	146.26	140.07	141.67	139.83
HR	5.94	7.16	7.13	6.48	6.79	6.68
IT	119.74	131.51	123.05	112.11	113.61	114.42
CY	1.37	1.53	1.65	1.42	1.55	1.58
LV	3.23	3.96	4.00	3.68	3.88	4.02
LT	3.74	4.62	4.76	4.78	5.24	5.45
LU	3.18	4.05	3.90	3.54	3.61	3.74
HU	15.64	18.16	16.88	16.83	17.90	17.87
MT	0.32	0.38	0.40	0.46	0.49	0.51
NL	47.52	48.96	50.75	43.99	44.91	44.93
AT	21.81	25.70	25.96	25.44	26.48	26.04
PL	53.56	57.48	65.24	60.78	69.18	69.98
PT	17.21	18.26	17.22	15.56	15.91	16.20
RO	21.95	23.59	22.04	21.60	22.98	23.44
SI	4.43	4.87	5.01	4.66	4.92	4.94
SK	9.93	10.40	10.37	8.94	9.90	9.91
FI	23.28	24.01	25.09	23.05	24.61	25.07
SE	33.67	31.98	32.72	31.56	31.90	31.78
UK	139.59	137.73	130.08	120.04	120.89	121.94
EU28	1066.19	1124.32	1103.13	1029.13	1061.25	1061.63

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

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.5.3 Final Energy Consumption

BY FUEL

	2018							
	Oil & Petroleum Products	Natural Gas	Renewables & Biofuels	Solid Fossil Fuels	Waste, Non-Renewable	Electricity	Heat	Manufactured Gases, Peat & Products
Mtoe								
EU27_2020	345.1	200.8	98.9	22.5	4.4	216.0	46.2	5.8
Share (%)	36.7 %	21.4 %	10.5 %	2.4 %	0.5 %	23.0 %	4.9 %	0.6 %
BE	13.27	9.50	1.96	0.52	0.17	7.12	0.40	0.2
BG	3.54	1.30	1.40	0.36	0.04	2.57	0.54	0.0
CZ	6.70	5.17	3.00	1.66	0.28	4.99	2.06	0.3
DK	5.28	1.57	1.85	0.13	0.02	2.67	2.55	0.0
DE	70.74	53.20	15.78	3.76	1.24	44.10	9.55	2.5
EE	0.99	0.25	0.46	0.03	0.01	0.64	0.48	0.0
IE	5.99	1.94	0.46	0.24	0.05	2.33	0.00	0.2
EL	8.09	0.81	1.68	0.28	0.00	4.25	0.05	0.0
ES	39.54	14.27	6.99	0.47	0.00	20.50	0.00	0.2
FR	54.34	27.88	14.44	1.18	0.47	37.86	3.66	0.0
HR	2.75	1.08	1.15	0.07	0.02	1.39	0.23	0.0
IT	39.40	33.63	10.96	0.63	0.25	25.20	4.22	0.1
CY	0.95	0.00	0.19	0.01	0.02	0.40	0.00	0.0
LV	1.35	0.34	1.08	0.04	0.03	0.57	0.60	0.0
LT	2.12	0.60	0.72	0.17	0.00	0.89	0.91	0.0
LU	2.26	0.62	0.18	0.04	0.01	0.55	0.07	0.0
HU	5.69	5.58	1.88	0.22	0.10	3.39	0.97	0.0
MT	0.28	0.00	0.03	0.00	0.00	0.21	0.00	0.0
NL	14.14	17.10	1.76	0.10	0.04	9.28	2.00	0.5
AT	9.43	4.72	4.09	0.33	0.27	5.42	1.69	0.1
PL	24.84	9.33	6.15	10.71	0.81	12.08	5.60	0.5
PT	7.09	1.80	2.85	0.01	0.09	4.12	0.23	0.0
RO	7.88	5.76	3.70	0.62	0.17	3.92	1.24	0.2
SI	2.27	0.60	0.63	0.04	0.05	1.18	0.18	0.0
SK	2.79	2.65	0.65	0.42	0.17	2.23	0.56	0.4
FI	6.21	0.60	6.60	0.13	0.05	7.12	4.01	0.4
SE	7.16	0.47	8.25	0.37	0.00	10.97	4.39	0.2
UK	48.05	39.24	5.72	1.70	0.12	25.77	1.26	0.1
EU28	393.13	240.00	104.62	24.24	4.53	241.75	47.46	5.9

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

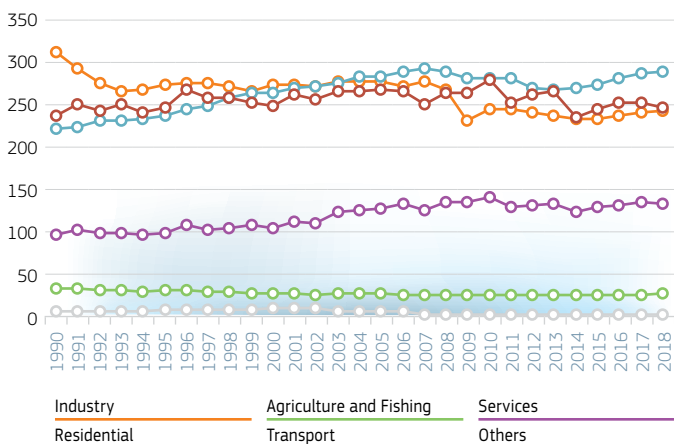
2.5.3 Final Energy Consumption

BY SECTOR

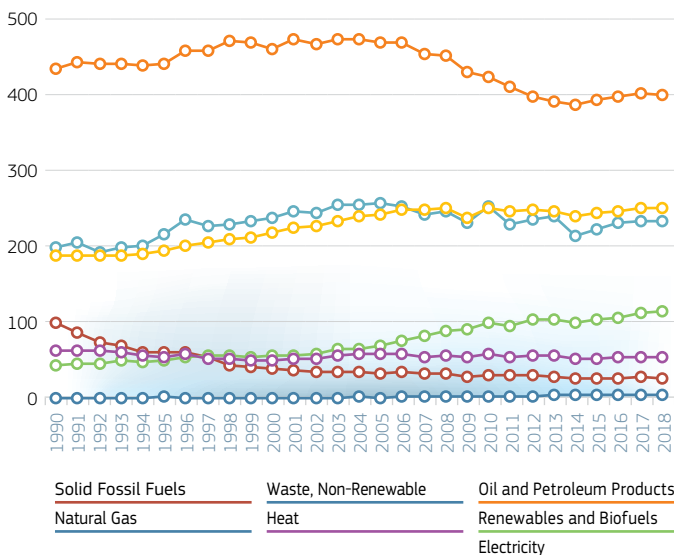
	2018					
	Industry	Transport	Residential	Services	Agriculture & Fishing	Others
Mtoe						
EU27_2020	242.2	286.8	245.2	133.6	28.6	3.4
Share (%)	25.8%	30.5%	26.1%	14.2%	3.0%	0.4%
BE	10.67	8.90	8.10	4.60	0.79	0.05
BG	2.73	3.37	2.23	1.23	0.19	0.00
CZ	6.69	6.66	7.04	3.13	0.62	0.04
DK	2.34	4.42	4.58	2.00	0.71	0.03
DE	57.40	55.72	55.26	29.08	3.34	0.08
EE	0.49	0.83	0.94	0.49	0.12	0.01
IE	2.60	4.11	2.78	1.48	0.25	0.00
EL	2.74	5.90	3.92	2.10	0.28	0.23
ES	20.22	32.53	15.01	11.18	2.75	0.32
FR	27.26	45.31	39.06	23.28	4.40	0.52
HR	1.19	2.14	2.30	0.82	0.23	0.00
IT	24.30	35.58	32.06	19.34	3.03	0.11
CY	0.23	0.68	0.34	0.28	0.04	0.02
LV	0.90	1.11	1.23	0.59	0.19	0.01
LT	1.11	2.08	1.49	0.65	0.11	0.01
LU	0.63	2.10	0.50	0.48	0.02	0.00
HU	4.45	4.81	5.82	2.10	0.64	0.04
MT	0.06	0.23	0.09	0.13	0.01	0.00
NL	13.69	10.83	9.65	6.89	3.80	0.07
AT	7.72	8.78	6.49	2.51	0.53	0.00
PL	16.36	22.41	19.31	7.98	3.92	0.00
PT	4.58	5.86	2.92	2.35	0.46	0.03
RO	6.61	6.30	7.78	1.98	0.57	0.21
SI	1.39	1.97	1.07	0.43	0.07	0.02
SK	3.66	2.74	2.06	1.31	0.13	0.00
FI	11.14	4.24	5.69	3.08	0.72	0.21
SE	11.01	7.15	7.49	4.12	0.65	1.35
UK	21.42	41.81	37.99	17.99	1.50	1.23
EU28	263.59	328.59	283.19	151.59	30.08	4.59

2.5.3 Final Energy Consumption

BY SECTOR – EU27_2020 – 1990-2018 (Mtoe)



FINAL ENERGY CONSUMPTION – BY FUEL – EU27_2020 – 1990-2018 (Mtoe)



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.6 Electricity

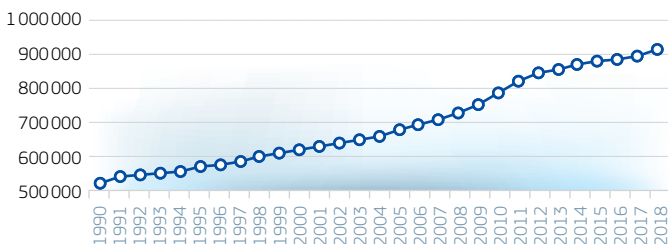
2.6.1 Installed Electricity Capacity

TOTAL

MW	2000	2005	2010	2015	2017	2018
EU27_2020*	613 221	675 657	790 329	889 830	907 426	929 461
Index 2000	100 %	110 %	129 %	145 %	148 %	152 %
BE	15 685	16 096	18 793	21 167	22 234	22 790
BG	11 085	12 260	10 031	10 913	10 858	11 339
CZ	15 323	17 406	20 073	21 866	22 267	22 277
DK	12 316	13 036	13 438	14 002	14 321	15 073
DE	118 884	128 497	162 924	203 257	215 326	229 197
EE	2 800	2 559	2 751	2 857	2 542	2 819
IE	4 709	6 102	8 143	9 680	10 608	10 982
EL	10 904	13 306	15 312	18 942	19 426	19 581
ES	53 922	76 566	101 740	106 758	103 863	103 737
FR	114 518	115 730	124 138	132 219	133 089	133 457
HR	2 067	3 867	4 103	4 768	4 970	5 006
IT	75 510	85 498	106 610	116 964	114 241	115 221
CY	988	1 125	1 560	1 756	1 785	1 794
LV	2 092	2 166	2 557	2 931	2 941	2 915
LT	5 716	4 556	3 570	3 587	3 326	3 354
LU	1 217	1 682	1 712	2 024	1 712	1 718
HU	8 282	8 586	8 993	8 634	8 860	9 249
MT	0	0	572	668	707	726
NL	21 062	21 800	26 688	33 866	33 815	35 024
AT	17 802	19 102	21 345	24 741	24 919	25 620
PL	30 559	32 257	33 360	37 327	42 850	43 046
PT	10 908	13 374	18 932	19 625	20 933	21 186
RO	16 820	18 951	19 912	23 830	23 574	23 553
SI	2 614	2 992	3 193	3 360	3 618	3 798
SK	7 454	8 257	7 873	7 782	7 671	7 625
FI	16 260	16 468	15 554	16 616	17 174	17 154
SE	33 724	33 419	36 452	39 691	39 798	41 223
UK	78 393	82 379	93 685	96 395	109 286	108 279
EU28	691 614	758 036	884 015	986 225	1 016 713	1 037 740

INSTALLED ELECTRICITY CAPACITY – TOTAL – 1990-2018 (MW)

EU27_2020



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

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.6.1 Installed Electricity Capacity

BY FUEL

MW	2018						
	Installed Electricity Capacity	Combustible Fuels	Wind	Hydro	Nuclear	Solar	Others
EU27_2020	929461	404216	157292	150826	111240	103892	1995
Share (%)	100.0 %	43.5 %	16.9 %	16.2 %	12.0 %	11.2 %	0.2 %
BE	22790	8204	3261	1418	5918	3987	3
BG	11339	4220	699	3379	2008	1033	0
CZ	22277	13331	316	2265	4290	2075	0
DK	15073	7945	6121	9	0	998	0
DE	229197	103030	58843	10940	10799	45181	404
EE	2819	2470	310	7	0	32	0
IE	10982	6752	3676	529	0	24	0
EL	19581	10643	2877	3409	0	2652	0
ES	103737	46009	23405	20080	7117	7068	59
FR	133457	19783	14900	25793	63130	9617	234
HR	5006	2142	586	2200	0	68	10
IT	115221	61276	10230	22499	0	20108	1108
CY	1794	1517	158	0	0	118	0
LV	2915	1270	78	1565	0	2	0
LT	3354	1837	533	877	0	82	25
LU	1718	134	123	1330	0	131	0
HU	9249	6083	329	57	2013	726	41
MT	726	595	0	0	0	131	0
NL	35024	25550	4393	37	485	4522	37
AT	25620	6533	3133	14516	0	1438	1
PL	43046	34314	5766	2391	0	562	12
PT	21186	8080	5172	7236	0	667	30
RO	23553	11022	3032	6701	1411	1386	0
SI	3798	1515	5	1343	688	247	0
SK	7625	2651	4	2528	1940	471	31
FI	17154	8902	2041	3287	2784	140	0
SE	41223	8408	7300	16431	8656	428	0
UK	108279	59278	21770	4778	9314	13118	20
EU28	1037740	463494	179063	155604	120554	117010	2016

2.6.1 Installed Electricity Capacity*

RENEWABLES

MW	2018						
	Total Renewables	Hydro	Wind	Solar Thermal	Solar PV	Geothermal	Tide, Wave & Ocean
EU27_2020	413 096	150 826	157 292	2 306	101 586	862	223
Share (%)	100.0 %	36.5 %	38.1 %	0.6 %	24.6 %	0.2 %	0.1 %
BE	8 665	1 418	3 261	0	3 987	0	0
BG	5 111	3 379	699	0	1 033	0	0
CZ	4 656	2 265	316	0	2 075	0	0
DK	7 128	9	6 121	0	998	0	0
DE	115 000	10 940	58 843	2	45 179	36	0
EE	349	7	310	0	32	0	0
IE	4 229	529	3 676	0	24	0	0
EL	8 938	3 409	2 877	0	2 652	0	0
ES	50 557	20 080	23 405	2 304	4 764	0	5
FR	50 544	25 793	14 900	0	9 617	16	218
HR	2 864	2 200	586	0	68	10	0
IT	53 604	22 499	10 230	0	20 108	767	0
CY	276	0	158	0	118	0	0
LV	1 645	1 565	78	0	2	0	0
LT	1 492	877	533	0	82	0	0
LU	1 584	1 330	123	0	131	0	0
HU	1 115	57	329	0	726	3	0
MT	131	0	0	0	131	0	0
NL	8 952	37	4 393	0	4 522	0	0
AT	19 088	14 516	3 133	0	1 438	1	0
PL	8 719	2 391	5 766	0	562	0	0
PT	13 105	7 236	5 172	0	667	29	0
RO	11 119	6 701	3 032	0	1 386	0	0
SI	1 595	1 343	5	0	247	0	0
SK	3 003	2 528	4	0	471	0	0
FI	5 468	3 287	2 041	0	140	0	0
SE	24 159	16 431	7 300	0	428	0	0
UK	39 687	4 778	21 770	0	13 118	0	20
EU28	452 783	155 604	179 063	2 306	114 704	862	244

* Net maximum capacity.

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.6.2 Gross Electricity Generation

TOTAL

TWh	2000	2005	2010	2015	2017	2018
EU27_2020	2 656.9	2 917.7	2 980.3	2 902.3	2 955.9	2 941.5
Index 2000	100 %	110 %	112 %	109 %	111 %	111 %
BE	84.01	86.76	94.93	69.36	86.22	74.61
BG	40.92	44.36	46.64	49.20	45.58	46.82
CZ	73.46	82.58	85.82	83.81	86.95	87.91
DK	36.01	36.25	38.86	28.94	31.04	30.38
DE	576.54	620.20	631.04	646.48	652.02	641.59
EE	8.51	10.21	12.96	10.42	12.92	12.36
IE	23.98	25.97	28.35	28.39	30.87	31.13
EL	53.84	60.02	57.39	51.87	55.27	53.26
ES	224.47	289.09	301.37	280.70	275.64	274.36
FR	539.95	576.06	569.15	578.82	561.21	581.28
HR	11.28	13.16	14.90	11.40	11.98	13.63
IT	275.86	302.59	301.28	282.40	295.17	289.11
CY	3.37	4.38	5.32	4.53	5.00	5.06
LV	4.14	4.91	6.63	5.53	7.53	6.72
LT	11.33	14.58	5.50	4.67	3.94	3.28
LU	1.17	4.13	4.59	2.77	2.24	2.20
HU	35.19	35.76	37.37	30.30	32.80	31.87
MT	1.92	2.24	2.11	1.30	1.65	1.96
NL	89.38	99.66	119.12	110.23	117.14	114.36
AT	61.24	66.83	71.11	65.28	71.31	68.58
PL	145.18	156.63	157.58	164.83	170.40	169.91
PT	43.76	46.57	54.09	52.41	59.43	59.64
RO	51.56	59.41	60.98	66.29	64.30	64.88
SI	13.62	15.12	16.44	15.10	16.33	16.33
SK	31.16	31.44	27.82	26.80	27.58	26.86
FI	69.78	70.34	80.36	68.35	67.12	69.98
SE	145.27	158.43	148.55	162.11	164.25	163.40
UK	377.07	398.35	382.07	338.09	336.10	330.74
EU28	3 034.00	3 316.02	3 362.34	3 240.40	3 292.00	3 272.21

2.6.2 Gross Electricity Generation

BY FUEL

TWh	2018						
	Gross Electricity Generation	Solid Fossil Fuels, Peat, Oil Shale & Sands	Oil & Petroleum Products	Natural Gas & Manufactured Gases	Nuclear	Renewables & Biofuel	Wastes non-RES
EU27_2020	2 941.5	610.9	54.8	523.2	761.9	968.8	21.8
Share (%)	100.0 %	20.8 %	1.9 %	17.8 %	25.9 %	32.9 %	0.7 %
BE	74.61	0.1	0.16	26.24	28.60	18.17	1.36
BG	46.82	18.7	0.34	2.02	16.13	9.58	0.10
CZ	87.91	41.2	0.11	6.12	29.92	10.48	0.08
DK	30.38	6.6	0.26	2.07	0.00	20.77	0.70
DE	641.59	228.2	5.19	94.24	76.01	230.94	7.07
EE	12.36	9.4	0.08	0.76	0.00	1.99	0.10
IE	31.13	4.2	0.14	16.01	0.00	10.43	0.30
EL	53.26	17.2	5.55	14.08	0.00	16.16	0.29
ES	274.36	37.3	14.50	59.38	55.77	106.35	1.02
FR	581.28	8.4	6.00	32.82	412.94	118.70	2.40
HR	13.63	1.5	0.07	2.25	0.00	9.87	0.00
IT	289.11	28.5	11.03	131.02	0.00	116.13	2.45
CY	5.06	0.0	4.58	0.00	0.00	0.48	0.00
LV	6.72	0.0	0.00	3.22	0.00	3.50	0.00
LT	3.28	0.0	0.13	0.33	0.00	2.73	0.08
LU	2.20	0.0	0.00	0.20	0.00	1.93	0.08
HU	31.87	4.7	0.09	7.40	15.73	3.75	0.22
MT	1.96	0.0	0.02	1.75	0.00	0.20	0.00
NL	114.36	27.5	1.30	61.19	3.51	18.88	2.01
AT	68.58	1.8	0.72	11.73	0.00	53.61	0.72
PL	169.91	130.6	1.80	15.08	0.00	22.03	0.44
PT	59.64	12.0	1.12	15.61	0.00	30.64	0.26
RO	64.88	15.6	0.60	10.63	11.38	26.63	0.00
SI	16.33	4.6	0.02	0.48	5.78	5.43	0.01
SK	26.86	3.0	0.46	2.43	14.84	6.10	0.02
FI	69.98	9.3	0.27	5.00	22.79	32.14	0.52
SE	163.40	0.6	0.31	1.14	68.55	91.19	1.57
UK	330.74	16.8	1.07	132.26	65.06	110.63	4.88
EU28	3 272.21	627.7	55.91	655.45	827.01	1 079.43	26.66

2.6.2 Gross Electricity Generation

RENEWABLES

TWh	2018							
	Renewables & Biofuels	Wind	Hydro	Solar	Solid & Liquid Biofuels, Renewable Waste	Biogases	Geothermal	Tide, Wave & Ocean
EU27_2020	968.8	320.5	370.7	115.0	100.2	55.3	6.7	0.5
Share (%)	100.0 %	33.1 %	38.3 %	11.9 %	10.3 %	5.7 %	0.7 %	0.0 %
BE	18.17	7.46	1.33	3.90	4.53	0.94	0.00	0.00
BG	9.58	1.32	5.42	1.34	1.28	0.21	0.00	0.00
CZ	10.48	0.61	2.68	2.36	2.22	2.61	0.00	0.00
DK	20.77	13.90	0.01	0.95	5.28	0.62	0.00	0.00
DE	230.94	109.95	24.14	45.78	17.46	33.42	0.18	0.00
EE	1.99	0.64	0.02	0.03	1.27	0.04	0.00	0.00
IE	10.43	8.64	0.93	0.02	0.66	0.18	0.00	0.00
EL	16.16	6.30	5.76	3.79	0.01	0.30	0.00	0.00
ES	106.35	50.90	36.80	12.74	4.99	0.92	0.00	0.00
FR	118.70	28.60	70.59	10.57	5.97	2.36	0.13	0.48
HR	9.87	1.34	7.78	0.07	0.31	0.35	0.00	0.00
IT	116.13	17.72	50.50	22.65	10.85	8.30	6.11	0.00
CY	0.48	0.22	0.00	0.20	0.00	0.06	0.00	0.00
LV	3.50	0.12	2.43	0.00	0.57	0.37	0.00	0.00
LT	2.73	1.14	0.96	0.09	0.40	0.14	0.00	0.00
LU	1.93	0.25	1.34	0.12	0.14	0.08	0.00	0.00
HU	3.75	0.61	0.22	0.62	1.96	0.33	0.01	0.00
MT	0.20	0.00	0.00	0.19	0.00	0.01	0.00	0.00
NL	18.88	10.56	0.07	3.69	3.67	0.89	0.00	0.00
AT	53.61	6.03	41.22	1.44	4.30	0.63	0.00	0.00
PL	22.03	12.80	2.39	0.30	5.42	1.13	0.00	0.00
PT	30.64	12.62	13.63	1.01	2.88	0.27	0.23	0.00
RO	26.63	6.32	18.10	1.77	0.37	0.07	0.00	0.00
SI	5.43	0.01	4.89	0.25	0.15	0.12	0.00	0.00
SK	6.10	0.01	3.88	0.59	1.09	0.54	0.00	0.00
FI	32.14	5.84	13.30	0.09	12.49	0.42	0.00	0.00
SE	91.19	16.62	62.25	0.41	11.90	0.01	0.00	0.00
UK	110.63	56.90	7.99	12.86	27.17	5.70	0.00	0.01
EU28	1 079.43	377.42	378.64	127.84	127.35	61.03	6.66	0.49

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

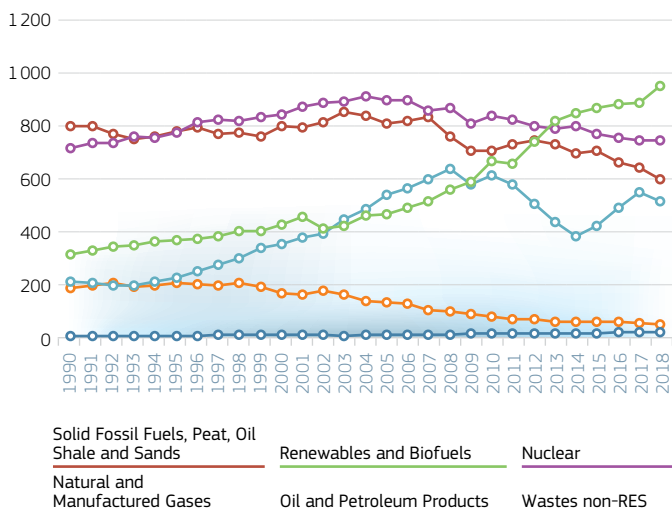
2.6.2 Gross Electricity Generation

EU27_2020 – BY FUEL

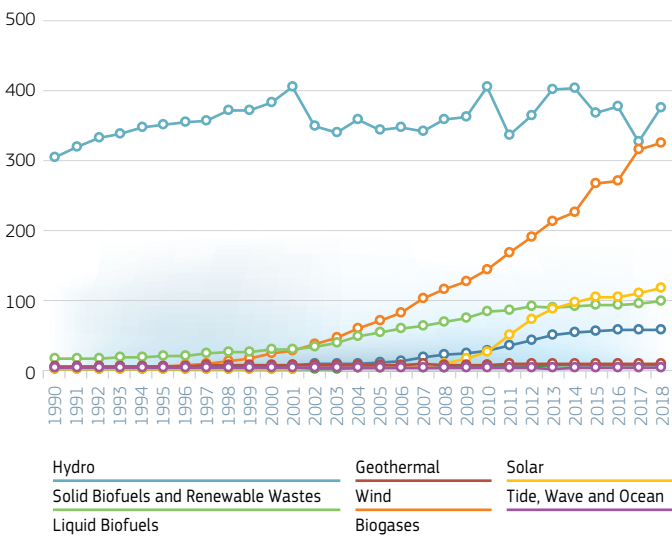
Share of Total (%)	2018					
	Solid Fossil Fuels, Peat, Oil Shale & Sands	Oil & Petroleum Products	Natural Gas & Manufactured Gases	Nuclear	Renewables & Biofuels	Others
1990	35.8	8.3	9.5	32.0	14.1	0.2
1991	35.1	8.8	9.1	32.3	14.5	0.3
1992	34.0	9.2	8.7	32.6	15.2	0.3
1993	33.2	8.6	8.9	33.6	15.5	0.3
1994	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	4.9	17.0	32.0	16.3	0.4
2005	28.3	4.7	18.8	31.4	16.3	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	30.7	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

2.6.2 Gross Electricity Generation

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



EU27_2020 – BY FUEL – GROSS ELECTRICITY GENERATION, BY FUEL: RENEWABLES – 1990-2018 (TWh)



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.6.3 Market Share of the Largest Electricity Producer

%	2000	2005	2010	2015	2017	2018
BE	91.1	85.0	79.1	48.5	60.7	51.5
BG						
CZ	69.2	72.0	73.0	67.7	62.5	62.6
DK	36.0	33.0	46.0	33.0	33.3	32.8
DE	34.0	31.0	28.4	32.0	32.2	30.2
EE	91.0	92.0	89.0	79.8	82.5	80.0
IE	97.0	71.0	34.0	55.0	43.0	44.0
EL	97.0	97.0	85.1	70.7	58.7	58.2
ES	42.4	35.0	24.0	24.5	22.5	22.4
FR	90.2	89.1	86.5	85.7	79.9	82.1
HR		87.0	88.0	77.8	86.1	82.7
IT	46.7	38.6	28.0	27.0	19.0	19.0
CY	99.6	100.0	100.0	100.0	100.0	100.0
LV	95.8	92.7	88.0	57.4	47.1	63.4
LT	72.8	70.3	35.4	22.7	14.2	15.5
LU			85.4	43.8	17.8	14.4
HU	41.3	38.7	42.1	53.1	51.3	55.2
MT	100.0	100.0	100.0	100.0	61.0	76.0
NL						
AT	32.6					
PL	19.5	18.5	17.4	17.4	17.7	17.1
PT	58.5	53.9	47.2	42.5	39.5	43.3
RO		36.4	33.6	25.7	23.1	29.0
SI		50.1	56.3	51.3	48.5	53.9
SK	85.1	83.6	80.9	73.1	71.4	70.5
FI	23.3	23.0	26.6	22.3	22.5	24.7
SE	49.5	47.0	42.0	40.6	42.4	43.6
UK	20.6	20.5	21.0			

2.7 Solar and Wind Energy

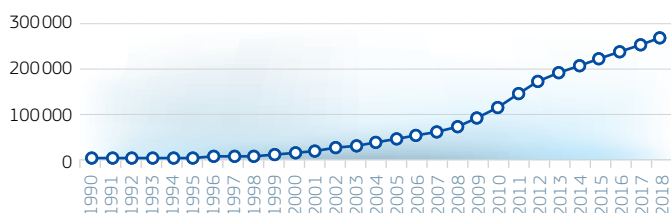
2.7.1 Solar and Wind Energy – Cumulative Capacity

TOTAL

MW	2000	2005	2010	2015	2017	2018
EU27_2020	12 472	41 041	109 606	214 847	245 149	261 184
Index 2000	100 %	329 %	879 %	1 723 %	1 966 %	2 094 %
BE	14	169	1 919	5 308	6 413	7 247
BG	0	8	513	1 728	1 734	1 732
CZ	1	23	1 940	2 356	2 378	2 391
DK	2 391	3 131	3 809	5 859	6 396	7 119
DE	6 209	20 316	44 961	83 804	97 873	104 024
EE	0	31	108	300	327	342
IE	117	493	1 391	2 454	3 334	3 700
EL	226	492	1 500	4 695	5 230	5 529
ES	2 216	9 970	25 298	29 951	30 152	30 473
FR	45	703	6 956	17 436	22 110	24 517
HR	0	6	79	466	636	654
IT	382	1 669	9 386	28 038	29 419	30 338
CY	0	1	89	234	268	276
LV	2	26	30	68	78	80
LT	0	1	133	505	592	615
LU	14	58	73	180	248	254
HU	0	17	295	501	673	1 055
MT	0	0	1	75	112	131
NL	460	1 275	2 327	4 906	7 105	8 915
AT	55	846	1 105	3 426	4 156	4 570
PL	4	121	1 108	4 994	6 046	6 328
PT	84	1 066	3 930	5 384	5 703	5 840
RO	0	1	389	4 456	4 404	4 418
SI	0	0	12	244	252	252
SK	0	5	22	536	532	475
FI	40	86	204	1 022	2 126	2 181
SE	212	526	2 028	5 923	6 855	7 728
UK	414	1 576	5 516	23 907	32 367	34 889
EU28	12 886	42 617	115 122	238 754	277 516	296 073

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

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

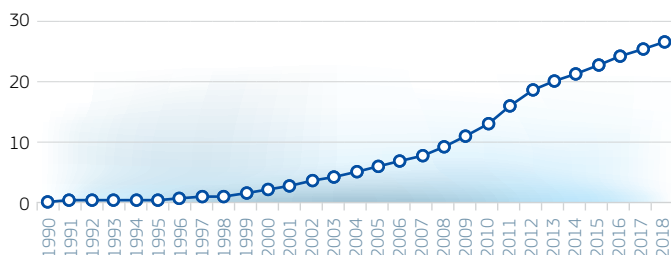
2.7.1 Solar and Wind Energy – Cumulative Capacity

SHARE OF TOTAL INSTALLED ELECTRICITY CAPACITY

%	2000	2005	2010	2015	2017	2018
EU27_2020	2.0	6.1	13.9	24.1	27.0	28.1
BE	0.09	1.05	10.21	25.08	28.84	31.80
BG	0.00	0.07	5.11	15.83	15.97	15.27
CZ	0.01	0.13	9.66	10.77	10.68	10.73
DK	19.41	24.02	28.34	41.85	44.66	47.23
DE	5.22	15.81	27.60	41.23	45.45	45.39
EE	0.00	1.21	3.93	10.50	12.86	12.13
IE	2.47	8.08	17.08	25.35	31.43	33.70
EL	2.07	3.70	9.80	24.79	26.92	28.24
ES	4.11	13.02	24.87	28.06	29.03	29.37
FR	0.04	0.61	5.60	13.19	16.61	18.37
HR	0.00	0.16	1.93	9.77	12.80	13.07
IT	0.51	1.95	8.80	23.97	25.75	26.33
CY	0.00	0.11	5.72	13.31	15.00	15.40
LV	0.10	1.20	1.17	2.33	2.65	2.75
LT	0.00	0.02	3.73	14.08	17.80	18.34
LU	1.15	3.48	4.27	8.90	14.48	14.76
HU	0.00	0.20	3.28	5.80	7.60	11.41
MT	0.00	0.00	0.14	11.23	15.90	18.10
NL	2.18	5.85	8.72	14.49	21.01	25.45
AT	0.31	4.43	5.18	13.85	16.68	17.84
PL	0.01	0.38	3.32	13.38	14.11	14.70
PT	0.77	7.97	20.76	27.43	27.25	27.56
RO	0.00	0.01	1.95	18.70	18.68	18.76
SI	0.00	0.00	0.38	7.26	6.96	6.64
SK	0.00	0.06	0.28	6.89	6.94	6.23
FI	0.25	0.52	1.31	6.15	12.38	12.71
SE	0.63	1.57	5.56	14.92	17.22	18.75
UK	0.53	1.91	5.89	24.80	29.62	32.22
EU28	1.86	5.62	13.02	24.21	27.30	28.53

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

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

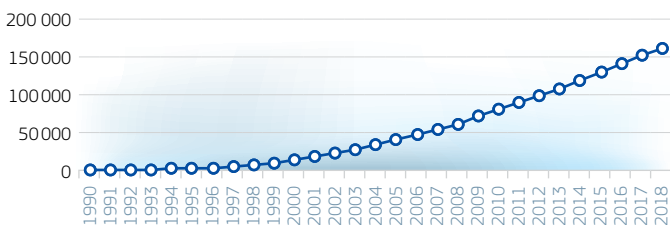
2.7.2 Wind Cumulative Installed Capacity

TOTAL

MW	2000	2005	2010	2015	2017	2018
EU27_2020	12 297	38 773	78 989	127 171	148 930	157 292
Index 2000	100 %	315 %	642 %	1 034 %	1 211 %	1 279 %
BE	14	167	912	2 176	2 797	3 261
BG	0	8	488	699	698	699
CZ	1	22	213	281	308	316
DK	2 390	3 128	3 802	5 077	5 490	6 121
DE	6 095	18 260	26 955	44 580	55 580	58 843
EE	0	31	108	300	312	310
IE	117	493	1 390	2 451	3 318	3 676
EL	226	491	1 298	2 091	2 624	2 877
ES	2 206	9 918	20 693	22 943	23 124	23 405
FR	38	690	5 912	10 298	13 499	14 900
HR	0	6	79	418	576	586
IT	363	1 635	5 794	9 137	9 737	10 230
CY	0	0	82	158	158	158
LV	2	26	30	68	77	78
LT	0	1	133	436	518	533
LU	14	35	44	64	120	123
HU	0	17	293	329	329	329
MT	0	0	0	0	0	0
NL	447	1 224	2 237	3 391	4 202	4 393
AT	50	825	1 016	2 489	2 887	3 133
PL	4	121	1 108	4 886	5 758	5 766
PT	83	1 064	3 796	4 937	5 124	5 172
RO	0	1	389	3 130	3 030	3 032
SI	0	0	0	5	5	5
SK	0	5	3	3	4	4
FI	38	82	197	1 005	2 044	2 041
SE	209	522	2 017	5 819	6 611	7 300
UK	412	1 565	5 421	14 306	19 585	21 770
EU28	12 709	40 338	84 410	141 476	168 514	179 063

WIND CUMULATIVE INSTALLED CAPACITY – TOTAL –
1990-2018 (MW)

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.7.2 Wind Cumulative Installed Capacity

SHARE OF TOTAL INSTALLED ELECTRICITY CAPACITY

%	2000	2005	2010	2015	2017	2018
EU27_2020	2.0	5.7	10.0	14.3	16.4	16.9
BE	0.1	1.0	4.9	10.3	12.6	14.3
BG	0.0	0.1	4.9	6.4	6.4	6.2
CZ	0.0	0.1	1.1	1.3	1.4	1.4
DK	19.4	24.0	28.3	36.3	38.3	40.6
DE	5.1	14.2	16.5	21.9	25.8	25.7
EE	0.0	1.2	3.9	10.5	12.3	11.0
IE	2.5	8.1	17.1	25.3	31.3	33.5
EL	2.1	3.7	8.5	11.0	13.5	14.7
ES	4.1	13.0	20.3	21.5	22.3	22.6
FR	0.0	0.6	4.8	7.8	10.1	11.2
HR	0.0	0.2	1.9	8.8	11.6	11.7
IT	0.5	1.9	5.4	7.8	8.5	8.9
CY	0.0	0.0	5.3	9.0	8.8	8.8
LV	0.1	1.2	1.2	2.3	2.6	2.7
LT	0.0	0.0	3.7	12.2	15.6	15.9
LU	1.2	2.1	2.6	3.2	7.0	7.2
HU	0.0	0.2	3.3	3.8	3.7	3.6
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	2.1	5.6	8.4	10.0	12.4	12.5
AT	0.3	4.3	4.8	10.1	11.6	12.2
PL	0.0	0.4	3.3	13.1	13.4	13.4
PT	0.8	8.0	20.1	25.2	24.5	24.4
RO	0.0	0.0	2.0	13.1	12.9	12.9
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	6.0	11.9	11.9
SE	0.6	1.6	5.5	14.7	16.6	17.7
UK	0.5	1.9	5.8	14.8	17.9	20.1
EU28	1.8	5.3	9.5	14.3	16.6	17.3

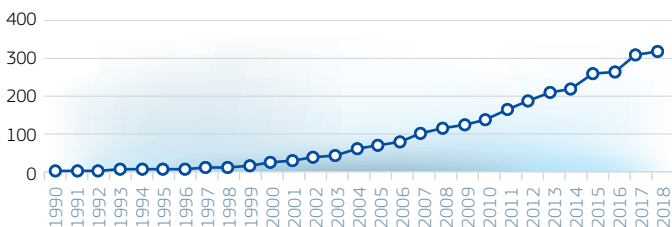
2.7.3 Wind Gross Electricity Production

TOTAL

TWh	2000	2005	2010	2015	2017	2018
EU27_2020	21.3	68.1	139.8	263.2	312.3	320.5
Index 2000	100 %	320 %	657 %	1 237 %	1 468 %	1 506 %
BE	0.0	0.2	1.3	5.6	6.5	7.5
BG	0.0	0.0	0.7	1.5	1.5	1.3
CZ	0.0	0.0	0.3	0.6	0.6	0.6
DK	4.2	6.6	7.8	14.1	14.8	13.9
DE	9.4	27.8	38.5	80.6	105.7	110.0
EE	0.0	0.1	0.3	0.7	0.7	0.6
IE	0.2	1.1	2.8	6.6	7.4	8.6
EL	0.5	1.3	2.7	4.6	5.5	6.3
ES	4.7	21.2	44.3	49.3	49.1	50.9
FR	0.0	1.0	9.9	21.4	24.6	28.6
HR	0.0	0.0	0.1	0.8	1.2	1.3
IT	0.6	2.3	9.1	14.8	17.7	17.7
CY	0.0	0.0	0.0	0.2	0.2	0.2
LV	0.0	0.0	0.0	0.1	0.2	0.1
LT	0.0	0.0	0.2	0.8	1.4	1.1
LU	0.0	0.1	0.1	0.1	0.2	0.3
HU	0.0	0.0	0.5	0.7	0.8	0.6
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	0.8	2.1	4.0	7.5	10.6	10.6
AT	0.1	1.3	2.1	4.8	6.6	6.0
PL	0.0	0.1	1.7	10.9	14.9	12.8
PT	0.2	1.8	9.2	11.6	12.2	12.6
RO	0.0	0.0	0.3	7.1	7.4	6.3
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	4.8	5.8
SE	0.5	0.9	3.5	16.3	17.6	16.6
UK	0.9	2.9	10.3	40.3	49.6	56.9
EU28	22.2	71.0	150.1	303.5	361.9	377.4

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

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.7.4 Wind Penetration Level

IN TOTAL GROSS ELECTRICITY GENERATION

%	2000	2005	2010	2015	2017	2018
EU27_2020	0.8	2.3	4.7	9.1	10.6	10.9
BE	0.0	0.3	1.4	8.0	7.6	10.0
BG	0.0	0.0	1.5	3.0	3.3	2.8
CZ	0.0	0.0	0.4	0.7	0.7	0.7
DK	11.8	18.2	20.1	48.8	47.6	45.8
DE	1.6	4.5	6.1	12.5	16.2	17.1
EE	0.0	0.5	2.1	6.9	5.6	5.1
IE	1.0	4.3	9.9	23.2	24.1	27.8
EL	0.8	2.1	4.7	8.9	10.0	11.8
ES	2.1	7.3	14.7	17.6	17.8	18.6
FR	0.0	0.2	1.7	3.7	4.4	4.9
HR	0.0	0.1	0.9	7.0	10.0	9.8
IT	0.2	0.8	3.0	5.3	6.0	6.1
CY	0.0	0.0	0.6	4.9	4.2	4.4
LV	0.1	1.0	0.7	2.7	2.0	1.8
LT	0.0	0.0	4.1	17.4	34.6	34.9
LU	2.1	1.3	1.2	3.7	10.5	11.6
HU	0.0	0.0	1.4	2.3	2.3	1.9
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	0.9	2.1	3.4	6.8	9.0	9.2
AT	0.1	2.0	2.9	7.4	9.2	8.8
PL	0.0	0.1	1.1	6.6	8.7	7.5
PT	0.4	3.8	17.0	22.1	20.6	21.2
RO	0.0	0.0	0.5	10.7	11.5	9.7
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	7.1	8.3
SE	0.3	0.6	2.3	10.1	10.7	10.2
UK	0.3	0.7	2.7	11.9	14.8	17.2
EU28	0.7	2.1	4.5	9.4	11.0	11.5

2.7.5 Wind Capacity Factor

ANNUAL AVERAGE

%	2000	2005	2010	2015	2017	2018
EU27_2020	21.6	22.0	22.1	25.9	26.2	25.5
BE	14.3	17.0	17.7	32.0	29.1	28.6
BG			17.5	26.0	26.9	23.6
CZ		12.1	19.7	25.5	24.0	24.1
DK	22.2	26.4	25.7	34.8	33.7	28.4
DE	19.2	19.0	17.9	22.6	23.8	23.4
EE		21.8	32.1	29.8	29.0	25.6
IE	26.2	28.2	25.3	33.5	28.0	29.4
EL	24.9	32.2	26.1	27.6	26.4	27.4
ES	26.8	26.7	26.7	26.9	26.6	27.2
FR	15.8	17.4	21.0	26.0	22.8	24.0
HR	0.0	20.8	22.0	23.8	26.1	28.5
IT	19.4	17.9	19.7	20.3	22.8	21.6
CY			4.8	17.6	16.8	17.5
LV		22.5	20.4	27.0	24.3	19.5
LT			21.1	23.2	32.9	26.8
LU	22.1	18.7	15.7	20.0	24.5	25.9
HU		7.4	22.8	26.3	28.8	23.1
MT						
NL	23.2	21.1	22.3	27.8	31.4	30.1
AT	16.7	20.2	25.4	24.3	28.5	24.1
PL	15.6	14.0	18.8	27.8	32.4	27.7
PT	25.3	20.8	30.2	29.4	29.9	30.5
RO			9.8	28.2	30.6	26.1
SI				15.1	14.4	14.4
SK		15.0	25.0	25.0	18.8	18.8
FI	25.7	25.9	18.7	28.9	29.3	35.8
SE	27.3	22.4	21.6	35.1	33.3	28.5
UK	28.7	23.2	23.7	35.2	31.7	32.7
EU28	21.9	22.0	22.2	26.8	26.8	26.3

Source: Eurostat, May 2020

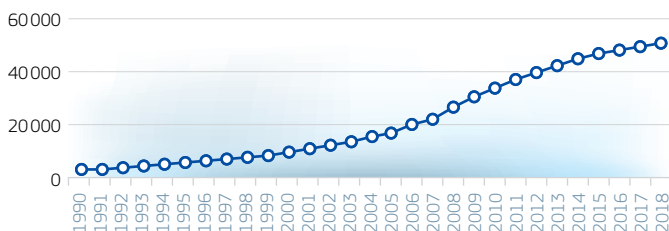
Methodology and Notes: [See Appendices](#)

2.7.6 Solar Collectors' Surface

1 000 m ²	2000	2005	2010	2015	2017	2018
EU27_2020	10659	17813	34490	47455	50440	51954
Index 2000	100 %	167 %	324 %	445 %	473 %	487 %
BE	41	77	371	661	729	748
BG			194	344	378	401
CZ		85	309	538	593	617
DK	243	286	480	1016	1542	1831
DE	3251	7085	13914	18339	19091	19269
EE						
IE	4	13	185	320	311	333
EL	2941	3047	4100	4390	4596	4691
ES	406	795	2376	3582	3997	4203
FR	513	583	1447	2917	3094	3218
HR	20	41	92	183	227	246
IT	271	680	2415	3724	4051	4196
CY		730	909	1009	1044	1065
LV						
LT						
LU		6	29	56	63	66
HU	36	45	140	280	308	329
MT			40	70	72	73
NL	276	422	576	647	649	657
AT	2202	3083	4559	5261	5172	5123
PL		95	656	1900	2131	2433
PT	238	289	752	1121	1231	1288
RO			104	159	189	189
SI			178	239	239	238
SK		64	123	171	201	206
FI	10	16	31	50	60	66
SE	207	371	510	478	472	466
UK	396	462	1038	1383	1428	1465
EU28	11055	18275	35528	48838	51868	53419

SOLAR THERMAL COLLECTORS –
1990–2018 (1 000 m²)

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

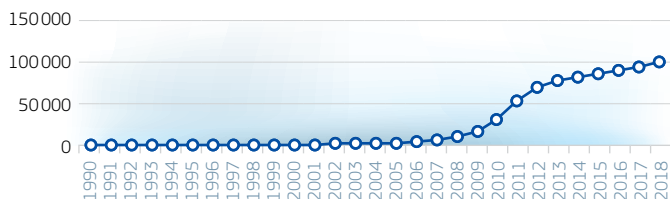
2.7.7 Solar Installed Capacity

TOTAL

MW	2000	2005	2010	2015	2017	2018
EU27_2020	175	2 268	30 617	87 677	96 220	103 892
BE	0	2	1 007	3 132	3 616	3 987
BG	0	0	25	1 029	1 036	1 033
CZ	0	1	1 727	2 075	2 070	2 075
DK	1	3	7	782	906	998
DE	114	2 056	18 006	39 224	42 293	45 181
EE	0	0	0	0	15	32
IE	0	0	1	2	16	24
EL	0	1	202	2 604	2 606	2 652
ES	10	52	4 605	7 008	7 027	7 068
FR	7	13	1 044	7 138	8 610	9 617
HR	0	0	0	48	60	68
IT	19	34	3 592	18 901	19 682	20 108
CY	0	1	7	76	110	118
LV	0	0	0	0	1	2
LT	0	0	0	69	74	82
LU	0	24	29	116	128	131
HU	0	0	2	172	344	726
MT	0	0	1	75	112	131
NL	13	51	90	1 515	2 903	4 522
AT	5	21	89	937	1 269	1 438
PL	0	0	0	108	287	562
PT	1	2	134	447	579	667
RO	0	0	0	1 326	1 374	1 386
SI	0	0	12	239	247	247
SK	0	0	19	533	528	471
FI	2	4	7	17	82	140
SE	3	4	11	104	244	428
UK	2	11	95	9 601	12 782	13 118
EU28	177	2 279	30 712	97 278	109 001	117 010

SOLAR INSTALLED CAPACITY – TOTAL –
1990-2018 (MW)

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

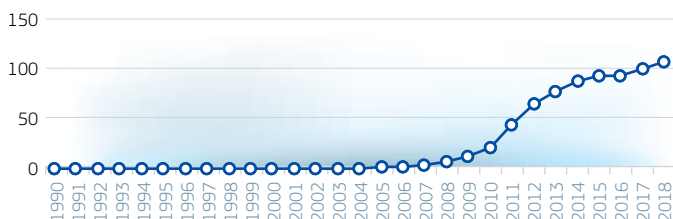
2.7.8 Solar Gross Electricity Production

TOTAL

TWh	2000	2005	2010	2015	2017	2018
EU27_2020	0.1	1.5	23.2	100.9	107.9	115.0
BE	0.0	0.0	0.6	3.1	3.3	3.9
BG	0.0	0.0	0.0	1.4	1.4	1.3
CZ	0.0	0.0	0.6	2.3	2.2	2.4
DK	0.0	0.0	0.0	0.6	0.8	1.0
DE	0.1	1.3	11.7	38.7	39.4	45.8
EE	0.0	0.0	0.0	0.0	0.0	0.0
IE	0.0	0.0	0.0	0.0	0.0	0.0
EL	0.0	0.0	0.2	3.9	4.0	3.8
ES	0.0	0.0	7.2	13.9	14.4	12.7
FR	0.0	0.0	0.6	7.8	9.6	10.6
HR	0.0	0.0	0.0	0.1	0.1	0.1
IT	0.0	0.0	1.9	22.9	24.4	22.7
CY	0.0	0.0	0.0	0.1	0.2	0.2
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	0.1
HU	0.0	0.0	0.0	0.1	0.3	0.6
MT	0.0	0.0	0.0	0.1	0.2	0.2
NL	0.0	0.0	0.1	1.1	2.2	3.7
AT	0.0	0.0	0.1	0.9	1.3	1.4
PL	0.0	0.0	0.0	0.1	0.2	0.3
PT	0.0	0.0	0.2	0.8	1.0	1.0
RO	0.0	0.0	0.0	2.0	1.9	1.8
SI	0.0	0.0	0.0	0.3	0.3	0.3
SK	0.0	0.0	0.0	0.5	0.5	0.6
FI	0.0	0.0	0.0	0.0	0.0	0.1
SE	0.0	0.0	0.0	0.1	0.2	0.4
UK	0.0	0.0	0.0	7.5	11.5	12.9
EU28	0.1	1.5	23.3	108.4	119.4	127.8

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

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.7.9 Solar Penetration Level

IN TOTAL GROSS ELECTRICITY GENERATION

%	2000	2005	2010	2015	2017	2018
EU27_2020	0.0	0.1	0.8	3.5	3.7	3.9
BE	0.0	0.0	0.6	4.4	3.8	5.2
BG	0.0	0.0	0.0	2.8	3.1	2.9
CZ	0.0	0.0	0.7	2.7	2.5	2.7
DK	0.0	0.0	0.0	2.1	2.4	3.1
DE	0.0	0.2	1.9	6.0	6.0	7.1
EE	0.0	0.0	0.0	0.0	0.1	0.2
IE	0.0	0.0	0.0	0.0	0.0	0.1
EL	0.0	0.0	0.3	7.5	7.2	7.1
ES	0.0	0.0	2.4	4.9	5.2	4.6
FR	0.0	0.0	0.1	1.3	1.7	1.8
HR	0.0	0.0	0.0	0.5	0.7	0.5
IT	0.0	0.0	0.6	8.1	8.3	7.8
CY	0.0	0.0	0.1	2.8	3.4	3.9
LV	0.0	0.0	0.0	0.0	0.0	0.0
LT	0.0	0.0	0.0	1.6	1.7	2.6
LU	0.0	0.4	0.5	3.7	4.9	5.4
HU	0.0	0.0	0.0	0.5	1.1	1.9
MT	0.0	0.0	0.0	7.3	9.8	9.7
NL	0.0	0.0	0.0	1.0	1.9	3.2
AT	0.0	0.0	0.1	1.4	1.8	2.1
PL	0.0	0.0	0.0	0.0	0.1	0.2
PT	0.0	0.0	0.4	1.5	1.7	1.7
RO	0.0	0.0	0.0	3.0	2.9	2.7
SI	0.0	0.0	0.1	1.8	1.7	1.6
SK	0.0	0.0	0.1	1.9	1.8	2.2
FI	0.0	0.0	0.0	0.0	0.1	0.1
SE	0.0	0.0	0.0	0.1	0.1	0.2
UK	0.0	0.0	0.0	2.2	3.4	3.9
EU28	0.0	0.0	0.7	3.3	3.6	3.9

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.8 CHP

2.8.1 CHP Electricity*

GENERATION AND CAPACITY

	CHP Electricity Generation			CHP Electrical Capacity		
	TWh			GW		
	2016	2017	2018	2016	2017	2018
EU27_2020	339.9	350.1		115.3	117.5	
BE	12.2	12.5	11.4	2.2	2.3	2.3
BG	3.6	3.5	3.6	1.5	1.2	1.1
CZ	8.4	8.0	10.0	9.0	8.0	8.5
DK	12.0	11.8	11.4	5.9	5.8	5.9
DE	87.9	94.4	88.5	37.2	39.6	53.9
EE	0.9	1.1	1.1	0.2	0.0	0.2
IE	2.2	2.2	2.1	0.3	0.3	0.3
EL	2.6	2.2	2.4	0.5	0.3	0.4
ES	27.5	28.8	29.0	4.2	4.6	4.7
FR	15.0	16.6	17.3	6.1	6.3	6.6
HR	1.5	2.0	2.0	0.8	0.8	0.9
IT	40.3	41.0		8.5	8.4	
CY	0.0	0.0	0.1	0.0	0.0	0.0
LV	3.1	2.8	3.1	1.3	1.3	1.3
LT	1.1	1.1	0.9	0.6	0.6	0.6
LU	0.3	0.3	0.4	0.1	0.1	0.1
HU	4.8	4.6	4.3	1.5	1.5	1.5
MT	0.2	0.2	0.2	0.1	0.1	0.1
NL	30.8	31.4	31.2	9.1	9.4	8.8
AT	10.9	9.5	9.4	3.4	2.9	2.8
PL	27.6	28.4	31.6	8.7	9.2	11.1
PT	6.2	6.4	6.1	1.2	1.2	1.2
RO	5.3	5.8	5.4	1.9	1.8	1.6
SI	1.2	1.3	1.3	0.4	0.4	0.4
SK		3.5	3.0		1.7	1.8
FI	21.8	21.7	22.8	5.9	6.5	6.4
SE	9.2	9.0	9.1	3.9	3.0	3.3
UK	19.8	21.6	22.3	4.6	4.5	4.7
EU28	359.7	371.7		119.9	122.0	

* Preliminary data for 2018.

Source: Eurostat, July 2020

Methodology and Notes: [See Appendices](#)

2.8.2 CHP Heat*

PRODUCTION AND CAPACITY

	CHP Heat Production			CHP Heat Capacity		
	PJ			GW		
	2016	2017	2018	2016	2017	2018
EU27_2020	2 682.7	2 741.4		265.9	278.3	
BE	104.4	108.7	89.5	5.0	5.1	4.9
BG	39.3	40.1	40.1	4.7	4.6	4.3
CZ	101.6	103.5	102.1	20.8	22.1	21.7
DK	94.9	94.4	95.2	8.8	8.8	9.0
DE	698.0	703.2	676.1	94.6	101.3	98.0
EE	3.3	13.6	3.5	0.7	0.5	0.7
IE	11.2	11.8	11.6	0.6	0.6	0.6
EL	18.9	14.6	17.4	1.3	0.9	0.9
ES	138.8	139.2	141.9	6.4	9.8	10.3
FR	163.9	177.6	176.4	14.9	15.3	15.7
HR	16.3	18.8	15.8	2.2	2.2	2.2
IT	219.8	219.9		14.0	13.2	
CY	0.1	0.1	0.6	0.0	0.0	0.0
LV	14.5	14.2	15.1	1.2	1.2	1.2
LT	9.5	10.4	10.2	1.2	1.5	1.5
LU	2.3	2.6	2.9	0.2	0.2	0.2
HU	24.7	25.2	24.7	2.8	2.9	3.0
MT	0.1	0.1	0.1	0.0	0.0	0.0
NL	174.3	180.5	173.8	16.0	16.6	15.9
AT	114.9	116.0	110.8	8.9	9.0	8.8
PL	246.5	253.3	274.5	23.8	24.2	27.2
PT	61.7	60.0	59.6	3.8	3.7	4.2
RO	45.9	47.0	42.2	6.3	5.5	4.9
SI	10.8	11.1	11.3	0.8	0.8	0.9
SK		36.9	32.1		3.4	3.7
FI	241.6	246.5	245.7	14.6	16.9	16.5
SE	91.1	92.0	90.6	8.4	7.9	7.8
UK	129.8	139.8	136.0	7.1	7.4	7.7
EU28	2 812.5	2 881.2		273.0	285.8	

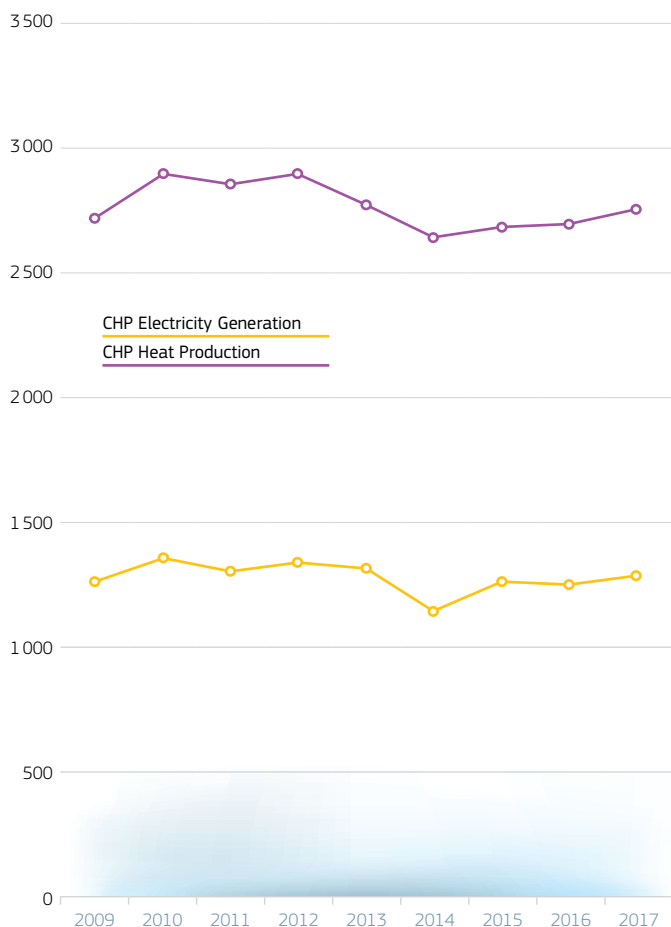
* Preliminary data for 2018.

Source: Eurostat, July 2020

Methodology and Notes: [See Appendices](#)

2.8.3 CHP Electricity and Heat

EU27_2020 – CHP ELECTRICITY AND HEAT GENERATION (PJ)*



* Data before 2009 is not consistent across the EU28.

Source: Eurostat, July 2020

Methodology and Notes: [See Appendices](#)

2.9 Heat*

2.9.1 Gross Heat Generation

TOTAL

PJ	2000	2005	2010	2015	2017	2018
EU27_2020	2 044.7	2 487.6	2 581.4	2 258.3	2 341.3	2 287.9
Index 2000	100 %	122 %	126 %	110 %	115 %	112 %
BE	23.2	19.5	35.5	26.6	22.2	22.3
BG	50.8	52.1	57.1	48.7	42.3	36.2
CZ	139.2	138.9	147.0	119.4	121.6	116.4
DK	115.5	125.8	147.9	126.9	131.9	130.8
DE	315.9	485.8	508.6	448.8	462.3	461.1
EE	27.0	26.8	25.5	21.2	24.3	24.3
IE	0.0	0.0	0.0	0.0	0.0	0.0
EL	1.2	2.0	1.9	2.1	2.1	2.2
ES	0.0	0.0	0.0	0.0	0.0	0.0
FR	135.5	178.3	152.9	151.4	170.8	171.2
HR	11.5	13.3	12.5	11.1	12.4	12.7
IT	0.0	193.1	205.3	216.9	233.4	229.6
CY	0.0	0.0	0.0	0.1	0.1	0.1
LV	31.9	31.1	28.7	25.5	30.0	29.7
LT	42.8	42.9	40.0	31.9	35.0	34.6
LU	0.5	3.2	3.1	2.4	2.8	3.1
HU	69.2	63.6	53.0	50.2	49.9	47.3
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	172.4	178.5	159.9	123.2	112.7	100.5
AT	47.7	59.1	78.6	82.7	88.6	83.0
PL	340.7	335.5	335.1	280.1	299.0	294.1
PT	5.6	13.7	21.1	19.5	19.1	20.2
RO	189.7	127.7	99.1	76.6	74.6	71.5
SI	9.4	10.1	9.8	8.7	9.5	9.3
SK	36.8	52.5	48.5	36.6	37.8	31.3
FI	147.4	175.4	205.7	168.7	173.8	170.8
SE	131.0	158.8	204.6	179.1	185.4	185.8
UK	102.1	57.2	57.0	63.1	66.6	66.3
EU28	2 146.8	2 544.8	2 638.4	2 321.4	2 407.9	2 354.2

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

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.9.1 Gross Heat Generation

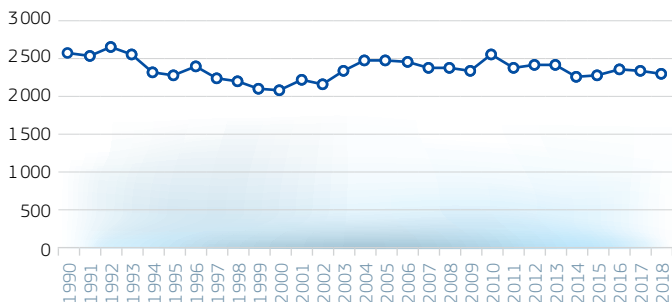
BY FUEL

PJ	2018						
	Gross Heat Generation	Solid Fossil Fuels, Peat, Oil Shale & Sands	Oil & Petroleum Products	Natural Gas & Manufactured Gases	Nuclear	Renewables & Biofuels	Wastes non-RES & Others
EU27_2020	2 287.9	566.5	83.5	862.6	4.1	642.3	128.8
Share (%)	100.0 %	24.8 %	3.6 %	37.7 %	0.2 %	28.1 %	5.6 %
BE	22.3	0.0	0.3	18.6	0.0	1.9	1.5
BG	36.2	8.4	0.0	22.2	0.7	4.7	0.0
CZ	116.4	64.1	1.1	39.6	0.9	9.3	1.5
DK	130.8	16.5	1.3	22.0	0.0	77.3	13.6
DE	461.1	133.2	4.5	205.9	0.0	76.1	41.4
EE	24.3	3.1	0.6	6.3	0.0	13.5	0.9
IE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EL	2.2	2.2	0.0	0.0	0.0	0.0	0.0
ES	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FR	171.2	5.5	8.4	62.6	0.0	75.5	19.1
HR	12.7	0.0	0.2	9.7	0.0	2.8	0.0
IT	229.6	1.9	31.8	150.3	0.0	39.8	5.7
CY	0.1	0.0	0.0	0.0	0.0	0.1	0.0
LV	29.7	0.1	0.1	15.6	0.0	13.9	0.0
LT	34.6	0.3	0.4	10.4	0.0	22.8	0.7
LU	3.1	0.0	0.0	1.5	0.0	1.6	0.0
HU	47.3	0.8	0.1	37.6	0.6	7.3	0.9
MT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NL	100.5	2.3	11.2	66.5	0.0	14.1	6.4
AT	83.0	2.9	3.2	30.9	0.0	40.2	5.9
PL	294.1	233.3	4.0	39.1	0.0	14.8	2.8
PT	20.2	0.0	0.2	20.0	0.0	0.0	0.0
RO	71.5	13.7	5.5	49.5	0.0	2.8	0.0
SI	9.3	5.0	0.2	2.5	0.0	1.5	0.1
SK	31.3	8.1	0.5	14.8	1.9	5.9	0.1
FI	170.8	56.6	6.8	27.1	0.0	74.7	5.6
SE	185.8	8.3	3.2	9.9	0.0	141.9	22.5
UK	66.3	0.1	1.2	60.2	0.0	4.4	0.4
EU28	2 354.2	566.6	84.7	922.8	4.1	646.7	129.2

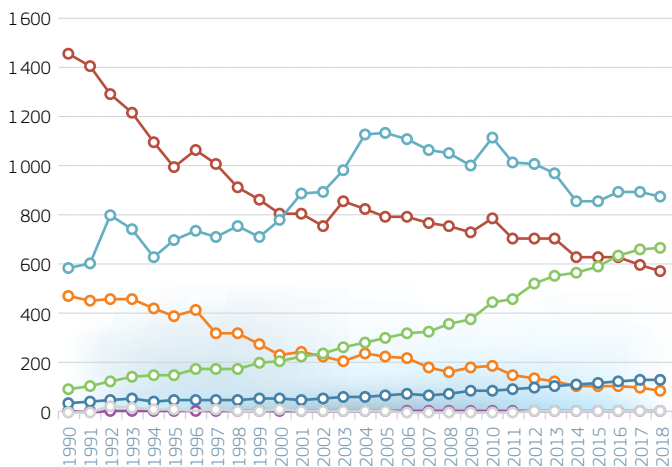
2.9.1 Gross Heat Generation

EU27_2020 – TOTAL – 1990-2018 (PJ)

EU27_2020



EU27_2020 – GROSS HEAT GENERATION – 1990-2018 (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

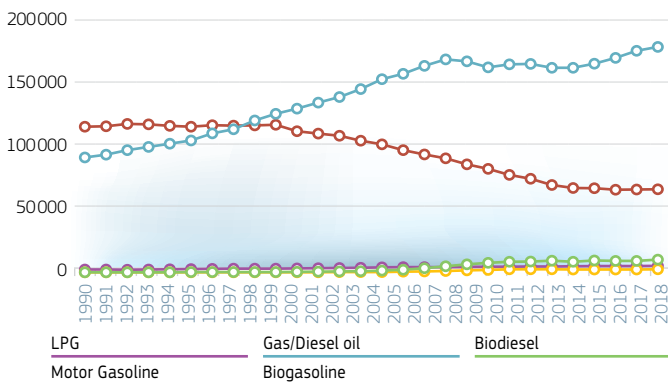
2.10 Transport

2.10.1 Fuels Final Consumption

PETROLEUM PRODUCTS AND BIOFUELS – EU27_2020

ktoe	Final Consumption Petroleum Products	LPG	Motor Gasoline	Gas / Diesel Oil	Final Consumption Biofuels	Biogasoline	Biodiesel
1990	215 294	2 711.1	110 840.9	95 083.3	5.7	0	6
1995	230 176	3 057.3	113 292.6	108 291.3	217.1	25	188
1996	237 573	3 195.6	114 346.7	113 849.6	318.6	39	275
1997	241 282	3 488.1	114 025.5	117 249.8	434.0	55	370
1998	250 803	3 571.4	114 748.4	125 434.8	409.8	64	336
1999	256 581	3 552.3	114 543.7	131 292.3	456.9	60	384
2000	256 069	3 660.6	109 605.3	135 720.5	711.2	59	638
2001	259 946	3 852.6	107 994.1	141 068.9	838.0	66	754
2002	262 640	4 084.8	106 124.6	145 730.6	1 109.7	159	929
2003	265 405	4 226.4	102 384.8	151 910.2	1 375.7	243	1 130
2004	271 436	4 554.8	99 147.2	160 737.4	1 879.8	306	1 564
2005	270 605	4 691.4	94 409.8	164 214.8	3 135.4	543	2 446
2006	274 455	4 851.1	91 142.2	170 911.5	5 191.1	841	3 744
2007	276 995	4 822.7	87 991.7	176 249.2	7 255.2	1 091	5 454
2008	271 259	4 969.8	83 544.2	175 102.1	8 921.4	1 693	6 940
2009	262 783	5 153.3	80 364.4	169 966.5	10 536.8	2 070	8 391
2010	260 574	5 200.2	75 784.4	172 500.8	11 952.6	2 480	9 420
2011	258 426	5 405.3	72 978.9	172 679.9	12 547.6	2 536	9 996
2012	248 034	5 379.8	67 768.0	168 157.1	13 351.2	2 471	10 864
2013	245 651	5 688.1	65 675.6	168 040.5	11 889.3	2 295	9 590
2014	248 463	5 767.2	65 417.9	171 042.7	12 831.8	2 284	10 540
2015	251 956	5 900.1	64 461.5	175 127.9	12 828.2	2 327	10 497
2016	258 346	5 912.0	64 760.4	180 695.6	12 642.7	2 292	10 347
2017	262 709	5 997.8	65 154.9	184 060.1	13 849.7	2 416	11 432
2018	262 637	5 967	65 257	183 610	15 362.4	2 599	12 762

EU27_2020 – FUELS CONSUMPTION IN THE TRANSPORT SECTOR – 1990-2018 (ktoe)



Source: Eurostat, May 2020

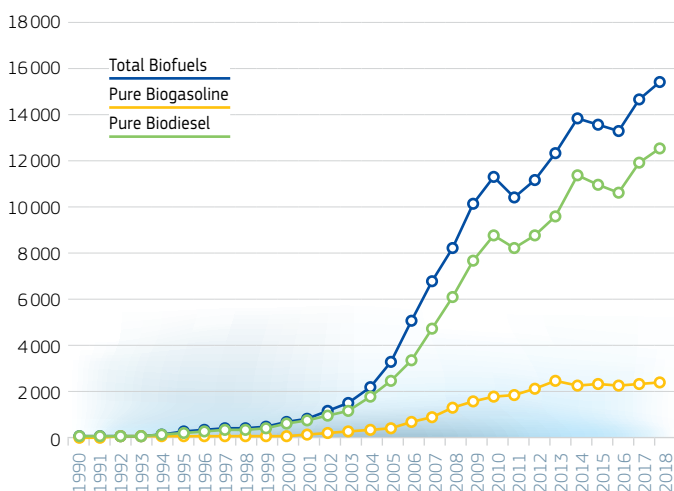
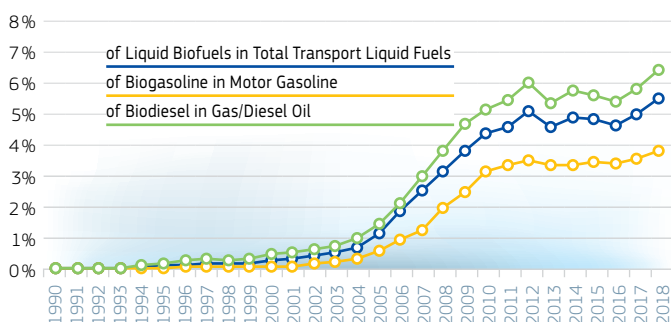
Methodology and Notes: [See Appendices](#)

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	0.1 %	0.0 %	0.1 %
1995	222	25	188	0.1 %	0.0 %	0.2 %
1996	314	39	270	0.1 %	0.0 %	0.2 %
1997	403	54	340	0.2 %	0.0 %	0.3 %
1998	385	63	312	0.2 %	0.1 %	0.3 %
1999	442	59	371	0.2 %	0.1 %	0.3 %
2000	639	60	564	0.3 %	0.1 %	0.5 %
2001	792	71	696	0.3 %	0.1 %	0.5 %
2002	1 108	160	918	0.4 %	0.1 %	0.6 %
2003	1 460	264	1 145	0.5 %	0.2 %	0.7 %
2004	2 139	312	1 716	0.7 %	0.3 %	1.0 %
2005	3 230	383	2 447	1.1 %	0.6 %	1.5 %
2006	5 037	635	3 300	1.9 %	0.9 %	2.1 %
2007	6 733	865	4 643	2.6 %	1.2 %	3.0 %
2008	8 140	1 282	6 013	3.2 %	2.0 %	3.8 %
2009	10 052	1 538	7 579	3.9 %	2.5 %	4.7 %
2010	11 217	1 728	8 677	4.4 %	3.2 %	5.2 %
2011	10 307	1 823	8 156	4.6 %	3.4 %	5.5 %
2012	11 079	2 103	8 675	5.1 %	3.5 %	6.1 %
2013	12 223	2 409	9 479	4.6 %	3.4 %	5.4 %
2014	13 772	2 187	11 286	4.9 %	3.4 %	5.8 %
2015	13 485	2 274	10 878	4.8 %	3.5 %	5.7 %
2016	13 182	2 240	10 509	4.7 %	3.4 %	5.4 %
2017	14 550	2 263	11 845	5.0 %	3.6 %	5.8 %
2018	15 332	2 365	12 422	5.5 %	3.8 %	6.5 %

2.10.2 Biofuels

EU27-2020 – PRODUCTION BIOFUELS –
1990-2018 (ktoe)EU27_2020 – BIOFUELS SHARE IN TRANSPORT LIQUID FUELS –
1990-2018 (%)

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.11 Energy Efficiency

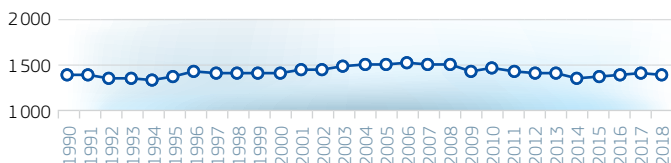
2.11.1 Primary Energy Consumption 2020-2030*

ALL FUELS

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	1 397.1	1 497.6	1 458.4	1 353.7	1 385.0	1 375.7
Index 2000	100 %	107 %	104 %	97 %	99 %	98 %
BE	52.4	51.6	54.1	46.1	49.1	46.8
BG	17.7	19.2	17.4	18.0	18.3	18.3
CZ	39.1	42.5	42.7	39.8	40.4	40.4
DK	19.1	19.4	20.0	16.9	17.7	17.8
DE	317.1	321.6	315.2	295.9	298.1	291.7
EE	4.6	5.1	5.6	5.3	5.6	6.2
IE	13.7	14.9	14.7	13.9	14.4	14.5
EL	27.2	30.3	27.2	23.4	23.2	22.6
ES	114.5	136.0	122.9	118.0	125.2	124.6
FR	239.8	260.9	254.4	244.4	239.2	238.9
HR	7.8	9.1	8.9	8.0	8.3	8.2
IT	166.1	180.8	167.3	149.1	148.9	147.2
CY	2.3	2.5	2.7	2.3	2.5	2.5
LV	3.8	4.5	4.6	4.3	4.5	4.7
LT	6.5	8.0	6.2	5.8	6.2	6.3
LU	3.6	4.8	4.6	4.1	4.3	4.5
HU	23.6	26.3	24.6	23.3	24.5	24.5
MT	0.8	0.9	0.9	0.8	0.8	0.8
NL	66.9	70.1	71.7	63.8	65.1	64.7
AT	27.5	32.7	32.9	31.6	32.8	31.8
PL	84.8	88.0	96.6	90.1	99.2	101.1
PT	23.0	24.9	22.6	21.6	22.8	22.7
RO	34.9	36.1	32.9	30.7	32.5	32.6
SI	6.2	7.0	7.0	6.3	6.7	6.7
SK	16.4	17.4	16.7	15.2	16.1	15.8
FI	31.6	33.6	35.5	31.2	32.1	32.7
SE	46.0	49.3	48.6	43.9	46.4	47.0
UK	222.0	223.5	205.1	182.5	176.7	176.1
EU28	1 619.0	1 721.0	1 663.5	1 536.2	1 561.7	1 551.8

PRIMARY ENERGY CONSUMPTION 2020-2030 – 1990-2018 (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, May 2020

Methodology and Notes: [See Appendices](#)

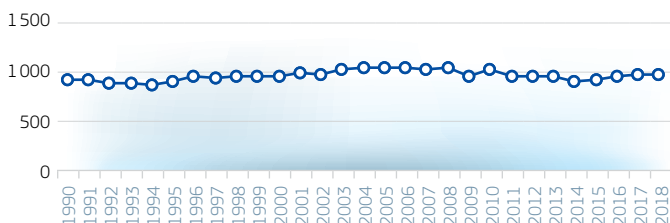
2.11.2 Final Energy Consumption 2020-2030*

ALL FUELS

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	980.1	1 040.8	1 024.0	957.7	989.1	989.4
Index 2000	100 %	106 %	104 %	98 %	101 %	101 %
BE	37.7	36.6	37.7	35.9	36.1	36.3
BG	9.1	10.1	8.8	9.5	9.9	9.9
CZ	25.1	26.1	25.3	24.2	25.5	25.3
DK	14.7	15.5	15.5	14.2	14.8	14.9
DE	220.2	219.7	223.0	212.7	218.6	215.4
EE	2.4	2.9	2.9	2.8	2.9	3.0
IE	10.8	12.7	12.0	11.2	11.7	12.3
EL	18.7	21.0	19.1	16.6	16.4	15.9
ES	80.0	98.1	89.4	80.6	84.9	86.9
FR	155.5	160.1	154.0	147.4	148.5	146.6
HR	6.0	7.2	7.2	6.6	6.9	6.9
IT	124.8	137.2	128.5	116.2	115.2	116.5
CY	1.6	1.8	1.9	1.7	1.9	1.9
LV	3.3	4.0	4.1	3.8	4.0	4.2
LT	3.8	4.7	4.8	4.9	5.3	5.5
LU	3.5	4.5	4.3	4.0	4.2	4.3
HU	16.2	18.7	17.5	17.4	18.5	18.5
MT	0.4	0.5	0.5	0.6	0.6	0.7
NL	52.1	54.1	55.3	49.1	50.3	50.3
AT	23.7	27.9	28.1	27.5	28.6	27.9
PL	55.1	58.5	66.3	62.3	71.0	71.9
PT	18.0	19.0	18.1	16.0	16.6	16.9
RO	22.7	24.6	22.5	21.8	23.3	23.6
SI	4.5	4.9	5.0	4.7	4.9	5.0
SK	11.0	11.6	11.5	10.1	11.1	11.1
FI	24.4	25.2	26.3	24.2	25.3	25.8
SE	35.0	33.5	34.2	31.8	32.2	32.0
UK	153.3	153.0	143.1	132.6	133.5	134.5
EU28	1 133.4	1 193.8	1 167.1	1 090.3	1 122.6	1 123.9

FINAL ENERGY CONSUMPTION 2020-2030 –
ALL FUELS – 1990-2018 (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, May 2020

Methodology and Notes: [See Appendices](#)

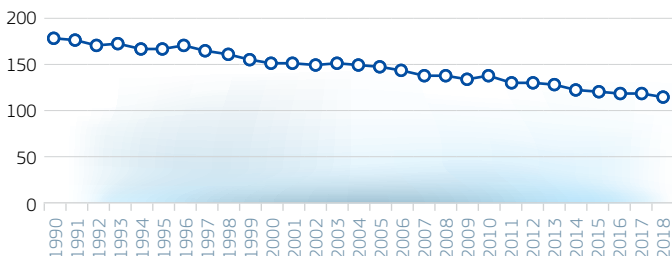
2.11.3 Energy Intensity

ALL FUELS

toe/M€ '2015	2000	2005	2010	2015	2017	2018
EU27_2020	152	149	138	122	120	116
Index 2000	100 %	98 %	91 %	80 %	79 %	77 %
BE	197	184	176	144	149	147
BG	692	566	431	411	387	377
CZ	364	331	294	251	241	235
DK	88	81	82	66	65	64
DE	135	133	123	106	102	98
EE	384	301	333	275	269	279
IE	101	84	80	55	50	47
EL	173	154	143	146	148	142
ES	149	148	128	121	120	118
FR	140	140	130	119	113	111
HR	241	225	211	191	187	178
IT	106	110	105	95	95	93
CY	187	167	152	143	142	140
LV	273	231	238	190	186	180
LT	367	312	233	195	197	193
LU	106	120	103	80	78	79
HU	305	278	262	225	223	212
MT	246	241	327	238	269	262
NL	157	160	150	128	125	120
AT	104	112	107	98	97	92
PL	355	316	275	223	227	219
PT	149	154	132	135	134	128
RO	402	321	253	199	187	179
SI	221	212	190	168	167	161
SK	410	338	252	204	206	195
FI	189	176	176	156	155	155
SE	150	144	129	108	111	108
UK	116	102	90	73	69	67
EU28	146	141	130	113	111	108

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

EU27_2020



Sources: Eurostat, DG Economic and Financial Affairs, May 2020

Methodology and Notes: [See Appendices](#)

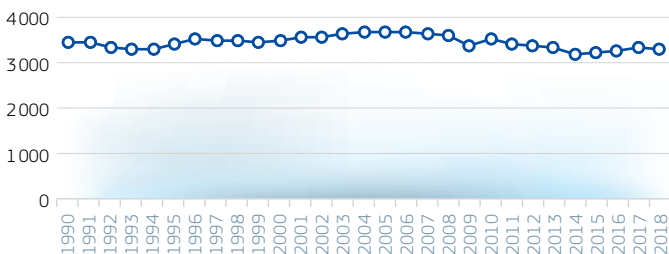
2.11.4 Energy Consumption per Capita

GROSS INLAND CONSUMPTION – ALL FUELS

kgoe/cap	2000	2005	2010	2015	2017	2018
EU27_2020	3 497	3 691	3 539	3 266	3 348	3 316
Index 2000	100 %	106 %	101 %	93 %	96 %	95 %
BE	5 805	5 664	5 653	4 809	5 020	4 828
BG	2 275	2 612	2 414	2 594	2 666	2 693
CZ	4 017	4 465	4 358	4 020	4 109	4 105
DK	3 659	3 664	3 689	3 064	3 165	3 163
DE	4 168	4 200	4 135	3 918	3 902	3 798
EE	3 378	3 881	4 253	4 134	4 374	4 774
IE	3 804	3 762	3 311	3 029	3 067	3 069
EL	2 589	2 831	2 549	2 218	2 265	2 218
ES	3 065	3 337	2 796	2 644	2 811	2 798
FR	4 229	4 416	4 171	3 916	3 827	3 806
HR	1 877	2 278	2 201	2 012	2 138	2 114
IT	3 066	3 273	2 988	2 562	2 633	2 596
CY	3 511	3 476	3 370	2 715	3 011	3 047
LV	1 623	2 040	2 183	2 205	2 334	2 478
LT	2 093	2 677	2 254	2 459	2 702	2 775
LU	8 433	10 411	9 254	7 425	7 332	7 490
HU	2 468	2 823	2 655	2 557	2 725	2 732
MT	2 080	2 324	2 266	1 724	1 797	1 775
NL	4 934	5 133	5 198	4 508	4 625	4 534
AT	3 652	4 192	4 171	3 923	3 967	3 852
PL	2 332	2 425	2 672	2 520	2 769	2 812
PT	2 476	2 614	2 305	2 273	2 391	2 335
RO	1 637	1 809	1 725	1 604	1 707	1 720
SI	3 244	3 667	3 525	3 124	3 323	3 303
SK	3 284	3 480	3 286	3 000	3 173	3 132
FI	6 336	6 654	6 886	5 961	6 220	6 329
SE	5 384	5 735	5 429	4 831	5 034	5 016
UK	3 968	3 902	3 408	2 944	2 823	2 794
EU28	3 553	3 717	3 523	3 225	3 280	3 248

ENERGY CONSUMPTION PER CAPITA –
1990-2018 (kgoe/cap)

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

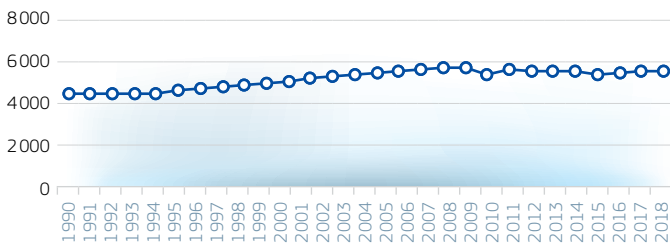
2.11.5 Final Electricity Consumption per Capita

ALL FUELS

kWh/cap	2000	2005	2010	2015	2017	2018
EU27_2020	5 130	5 603	5 693	5 528	5 632	5 631
Index 2000	100 %	109 %	111 %	108 %	110 %	110 %
BE	7 573	7 678	7 686	7 268	7 248	7 260
BG	2 961	3 345	3 652	3 933	4 211	4 240
CZ	4 804	5 256	5 183	5 169	5 424	5 467
DK	6 089	6 184	5 792	5 444	5 443	5 377
DE	5 884	6 332	6 504	6 342	6 289	6 195
EE	3 579	4 445	5 181	5 211	5 497	5 679
IE	5 371	5 923	5 588	5 360	5 403	5 619
EL	4 005	4 640	4 777	4 677	5 012	4 606
ES	4 657	5 595	5 266	4 995	5 139	5 111
FR	6 357	6 735	6 868	6 594	6 626	6 579
HR	2 631	3 344	3 686	3 631	3 846	3 940
IT	4 795	5 199	5 057	4 729	4 819	4 846
CY	4 339	5 402	5 960	4 830	5 313	5 397
LV	1 880	2 547	2 931	3 253	3 325	3 444
LT	1 764	2 377	2 652	3 198	3 532	3 702
LU	13 319	13 340	13 132	11 056	10 826	10 671
HU	2 880	3 203	3 416	3 682	3 929	4 032
MT	4 031	4 614	4 406	4 808	5 039	5 024
NL	5 993	6 403	6 501	6 144	6 236	6 284
AT	6 441	7 011	7 164	7 127	7 169	7 149
PL	2 563	2 751	3 122	3 363	3 576	3 699
PT	3 744	4 414	4 718	4 416	4 524	4 660
RO	1 511	1 817	2 036	2 166	2 275	2 333
SI	5 293	6 379	5 835	6 199	6 549	6 637
SK	4 077	4 253	4 477	4 495	4 747	4 765
FI	14 636	15 421	15 604	14 346	14 726	15 013
SE	14 526	14 504	14 048	12 810	12 732	12 605
UK	5 604	5 794	5 263	4 681	4 551	4 523
EU28	5 187	5 626	5 639	5 420	5 492	5 487

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

EU27_2020



Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

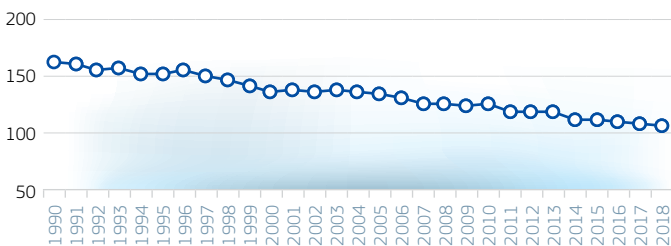
2.11.6 Primary Energy Intensity 2020-2030*

ALL FUELS

toe/M€ '2015	2000	2005	2010	2015	2017	2018
EU27_2020	138	135	126	111	108	105
Index 2000	100%	98%	91%	80%	79%	76%
BE	159	142	139	111	114	107
BG	653	539	416	393	373	363
CZ	345	309	275	236	224	218
DK	81	77	78	62	62	60
DE	124	123	113	98	94	91
EE	362	282	316	256	250	261
IE	96	80	77	53	49	46
EL	149	137	126	132	129	123
ES	131	132	114	110	110	107
FR	130	130	122	111	105	103
HR	222	209	197	178	175	167
IT	100	104	98	90	87	86
CY	167	146	138	128	128	123
LV	267	214	222	175	173	174
LT	322	275	199	155	154	153
LU	104	119	102	80	77	78
HU	286	257	243	208	205	195
MT	135	138	127	78	74	71
NL	115	113	108	92	90	87
AT	98	107	101	92	91	86
PL	336	299	261	209	213	207
PT	132	137	121	120	120	116
RO	381	299	238	192	180	173
SI	213	202	184	163	160	153
SK	378	315	237	191	192	181
FI	179	167	169	147	143	144
SE	140	132	119	97	97	96
UK	109	96	86	69	64	63
EU28	133	129	119	103	100	98

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

EU27_2020



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

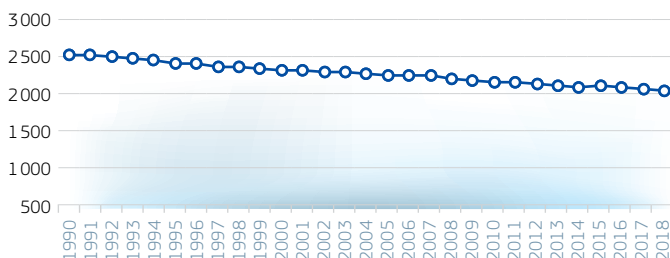
Sources: Eurostat, DG Economic and Financial Affairs, May 2020

Methodology and Notes: [See Appendices](#)

2.11.7 Greenhouse Gas (GHG) Intensity of Energy

ALL FUELS

kg CO ₂ /toe	2000	2005	2010	2015	2017	2018
EU27_2020	2 306	2 227	2 118	2 029	2 000	1 965
Index 2000	100 %	97 %	92 %	88 %	87 %	85 %
BE	1 786	1 788	1 624	1 494	1 494	1 555
BG	2 188	2 283	2 580	2 330	2 373	2 170
CZ	2 959	2 648	2 467	2 387	2 278	2 224
DK	2 744	2 559	2 403	2 013	1 856	1 844
DE	2 541	2 402	2 370	2 405	2 337	2 291
EE	3 137	3 143	3 300	2 898	3 217	2 793
IE	2 957	2 955	2 684	2 548	2 511	2 468
EL	3 470	3 455	3 286	2 831	2 880	2 825
ES	2 339	2 386	2 045	1 963	1 978	1 941
FR	1 539	1 451	1 362	1 258	1 276	1 225
HR	2 155	2 198	2 085	1 983	1 958	1 895
IT	2 620	2 562	2 410	2 291	2 185	2 193
CY	2 632	2 802	2 717	2 630	2 562	2 461
LV	1 910	1 772	1 837	1 654	1 592	1 606
LT	1 485	1 465	1 855	1 579	1 501	1 527
LU	2 212	2 405	2 311	2 057	2 031	2 021
HU	2 166	1 961	1 827	1 729	1 717	1 704
MT	3 162	2 849	2 763	1 951	1 887	1 822
NL	2 134	2 066	2 076	2 089	2 027	1 994
AT	1 892	1 949	1 707	1 591	1 610	1 609
PL	3 612	3 584	3 367	3 284	3 261	3 204
PT	2 362	2 332	2 005	2 007	2 080	2 017
RO	2 719	2 649	2 466	2 402	2 344	2 292
SI	2 370	2 260	2 260	2 131	2 036	2 073
SK	2 056	1 979	1 859	1 745	1 711	1 719
FI	1 640	1 542	1 635	1 274	1 198	1 208
SE	1 030	930	932	757	731	717
UK	2 412	2 381	2 368	2 080	2 040	2 010
EU28	2 321	2 246	2 148	2 035	2 004	1 970

GHG INTENSITY OF ENERGY – 1990-2018 (kg CO₂/toe) EU27_2020

2.12 Renewable Energy (RES) Indicators

2.12.1 Renewable Energy (RES) Shares*

OVERALL AND HEATING & COOLING

	Overall RES with Aviation Cap**				RES-H&C Renewable Heating & Cooling			
%	2005	2010	2017	2018	2005	2010	2017	2018
EU27_2020	10.2	14.4	18.5	18.9	12.4	17.0	21.0	21.1
BE	2.3	5.6	9.1	9.4	3.4	6.1	8.0	8.2
BG	9.2	13.9	18.7	20.5	14.3	24.3	29.9	33.3
CZ	7.1	10.5	14.8	15.2	10.8	14.1	19.7	20.6
DK	16.0	21.9	34.7	35.7	22.8	30.4	45.3	46.7
DE	7.2	11.7	15.5	16.5	7.7	12.1	13.4	13.6
EE	17.4	24.6	29.1	30.0	32.2	43.3	51.4	53.7
IE	2.8	5.7	10.6	11.1	3.4	4.3	6.7	6.5
EL	7.3	10.1	17.0	18.0	13.4	18.7	26.6	30.2
ES	8.4	13.8	17.6	17.5	9.4	12.6	17.6	17.5
FR	9.6	12.7	16.0	16.6	12.4	16.2	21.1	21.8
HR	23.7	25.1	27.3	28.0	30.0	32.8	36.5	36.5
IT	7.5	13.0	18.3	17.8	8.2	15.6	20.1	19.2
CY	3.1	6.2	10.5	13.9	10.0	18.8	26.1	36.8
LV	32.3	30.4	39.0	40.3	42.7	40.7	54.6	55.9
LT	16.8	19.6	26.0	24.4	29.3	32.5	46.5	45.6
LU	1.4	2.9	6.3	9.1	3.6	4.7	7.8	8.8
HU	6.9	12.7	13.5	12.5	9.9	18.1	19.9	18.1
MT	0.1	1.0	7.3	8.0	1.0	7.3	19.6	23.4
NL	2.5	3.9	6.5	7.4	2.4	3.1	5.7	6.1
AT	24.4	31.2	33.1	33.4	22.9	30.9	33.7	34.0
PL	6.9	9.3	11.0	11.3	10.2	11.7	14.6	14.8
PT	19.5	24.2	30.6	30.3	32.1	33.9	41.0	41.2
RO	17.6	22.8	24.5	23.9	17.9	27.2	26.6	25.4
SI	16.0	20.4	21.1	21.1	18.9	28.1	33.2	31.6
SK	6.4	9.1	11.5	11.9	5.0	7.9	9.8	10.6
FI	28.8	32.4	40.9	41.2	39.2	44.2	54.6	54.6
SE	40.7	47.0	54.2	54.6	50.7	59.1	65.8	65.4
UK	1.1	3.8	9.7	11.0	0.8	3.2	6.9	7.5
EU28	9.1	13.2	17.5	18.0	11.1	15.5	19.5	19.7

* Of the Gross Final Energy.

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

Source: Eurostat-RES SHARES, March 2020

Methodology and Notes: [See Appendices](#)

2.12.1 Renewable Energy (RES) Shares*

ELECTRICITY AND RENEWABLE ENERGY IN TRANSPORT

%	RES-E Renewable Electricity Generation				RES-T Renewable Energy in Transport**			
	2005	2010	2017	2018	2005	2010	2017	2018
EU27_2020	16.4	21.3	31.1	32.2	2.0	5.5	7.5	8.3
BE	2.4	7.1	17.3	18.9	0.6	4.7	6.6	6.6
BG	8.7	12.4	19.0	22.1	0.8	1.4	7.2	8.1
CZ	3.8	7.5	13.7	13.7	1.0	5.1	6.6	6.5
DK	24.6	32.7	60.0	62.4	0.4	1.2	6.6	6.6
DE	10.6	18.3	34.6	38.0	4.0	6.4	7.0	7.9
EE	1.1	10.3	17.4	19.7	0.2	0.4	0.4	3.3
IE	7.2	15.6	30.1	33.2	0.1	2.4	7.4	7.2
EL	8.2	12.3	24.5	26.0	0.1	1.9	4.0	3.8
ES	19.1	29.8	36.4	35.2	1.3	5.0	5.8	6.9
FR	13.7	14.8	19.9	21.2	2.1	6.5	8.8	9.0
HR	35.2	37.5	46.4	48.1	1.0	1.1	1.2	3.9
IT	16.3	20.1	34.1	33.9	1.0	4.8	6.5	7.7
CY	0.0	1.4	8.9	9.4	0.0	2.0	2.6	2.7
LV	43.0	42.1	54.4	53.5	2.4	4.0	2.6	4.7
LT	3.8	7.4	18.3	18.4	0.6	3.8	4.3	4.3
LU	3.2	3.8	8.1	9.1	0.1	2.1	6.4	6.5
HU	4.4	7.1	7.5	8.3	0.9	6.1	7.6	7.7
MT	0.0	0.0	6.8	7.7	0.0	0.0	6.8	8.0
NL	6.3	9.6	13.8	15.1	0.5	3.3	6.0	9.6
AT	62.9	66.4	71.6	73.1	5.1	10.7	9.7	9.8
PL	2.7	6.6	13.1	13.0	1.6	6.6	4.2	5.6
PT	27.7	40.6	54.2	52.2	0.5	5.5	7.9	9.0
RO	28.8	30.4	42.0	41.8	1.9	1.4	6.6	6.3
SI	28.7	32.2	32.4	32.3	0.8	3.1	2.6	5.5
SK	15.7	17.8	21.3	21.5	1.6	5.2	6.9	7.0
FI	26.9	27.7	35.2	36.8	0.9	4.4	18.8	14.9
SE	50.9	55.8	65.9	66.2	6.6	9.6	26.8	29.7
UK	3.2	6.9	27.4	30.9	0.5	3.3	4.8	6.5
EU28	14.8	19.7	30.7	32.1	1.8	5.2	7.1	8.0

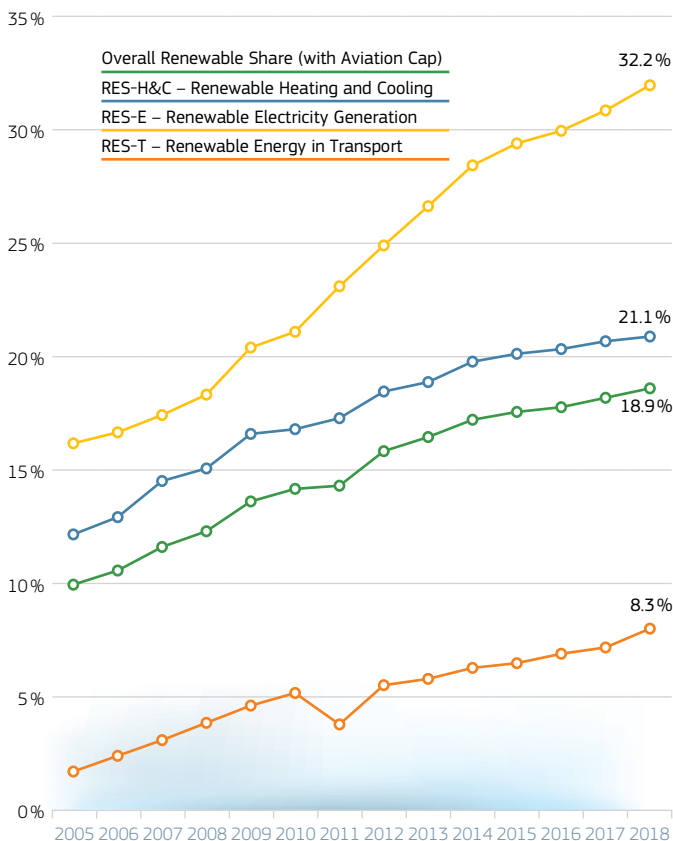
* Of the Gross Final Energy.

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

Source: Eurostat-RES SHARES, March 2020

Methodology and Notes: [See Appendices](#)

2.12.1 Renewable Energy (RES) Shares*

IN THE GROSS FINAL ENERGY CONSUMPTION –
EU27_2020 (%)

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

Source: Eurostat-RES SHARES, March 2020

Methodology and Notes: [See Appendices](#)

2.13 Energy Prices and Taxes

2.13.1 Prices of Transport Fuels

AUTOMOTIVE DIESEL OIL – ALL TAXES INCLUDED*

Current Prices (€/litre)	2009	2010	2015	2018	2019	2020
EU27_2020	0.99	1.15	1.19	1.32	1.32	1.19
BE	0.95	1.14	1.16	1.42	1.44	1.30
BG	0.84	0.98	1.13	1.11	1.11	0.97
CZ	0.99	1.21	1.15	1.23	1.23	1.09
DK	1.05	1.21	1.28	1.37	1.39	1.24
DE	1.07	1.20	1.18	1.28	1.25	1.15
EE	0.91	1.10	1.08	1.31	1.33	1.19
IE	1.02	1.22	1.26	1.34	1.32	1.24
EL	0.97	1.24	1.18	1.39	1.38	1.23
ES	0.91	1.07	1.12	1.21	1.21	1.10
FR	1.00	1.14	1.15	1.44	1.44	1.29
HR			1.16	1.31	1.32	1.17
IT	1.08	1.21	1.41	1.49	1.48	1.36
CY	0.83	1.00	1.23	1.31	1.23	1.14
LV	0.92	1.06	1.06	1.19	1.20	1.08
LT	0.89	1.02	1.07	1.15	1.14	1.02
LU	0.85	0.99	1.02	1.10	1.10	0.99
HU	0.96	1.16	1.16	1.24	1.23	1.06
MT	0.96	1.04	1.27	1.20	1.25	1.27
NL	1.00	1.15	1.24	1.34	1.36	1.28
AT	0.97	1.10	1.12	1.22	1.21	1.08
PL	0.84	1.06	1.08	1.15	1.17	1.03
PT	1.00	1.15	1.19	1.35	1.36	1.26
RO	0.83	1.03	1.20	1.22	1.20	1.00
SI	1.01	1.15	1.18	1.28	1.25	1.11
SK	1.10	1.11	1.14	1.25	1.23	1.11
FI	0.99	1.13	1.31	1.40	1.41	1.27
SE	1.04	1.25	1.37	1.51	1.51	1.39
UK	1.17	1.39	1.59	1.47	1.50	
EU28	1.01	1.17	1.24	1.34	1.34	

* First semester 2020 (06/01/20-29/06/20).

Sources: DG Energy, Member States, Weekly Oil Bulletin 2020

Methodology and Notes: [See Appendices](#)

2.13.1 Prices of Transport Fuels

EURO-SUPER 95 – ALL TAXES INCLUDED*

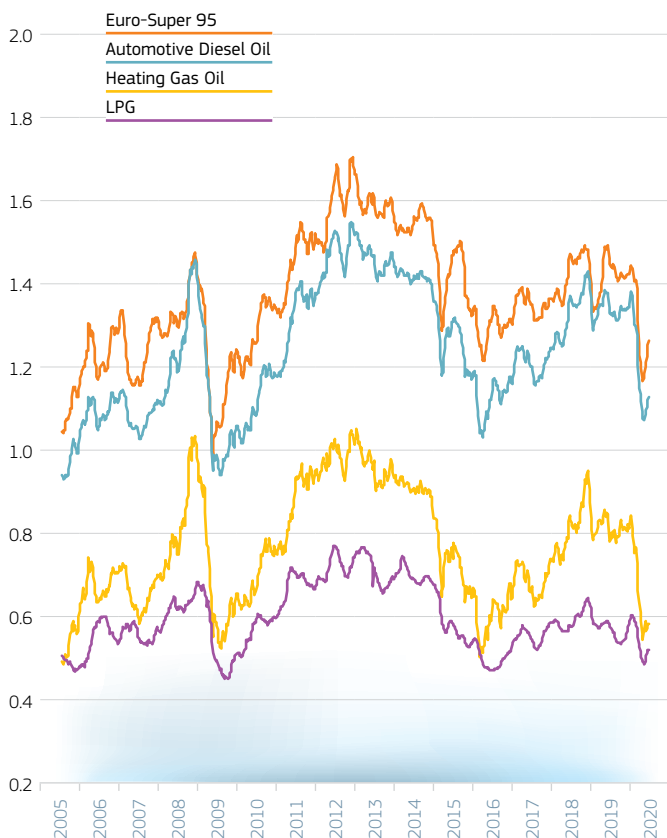
Current Prices (€/litre)	2009	2010	2015	2018	2019	2020
EU27_2020	1.15	1.31	1.35	1.41	1.40	1.28
BE	1.24	1.40	1.37	1.40	1.39	1.26
BG	0.88	1.02	1.10	1.10	1.08	0.97
CZ	1.03	1.25	1.15	1.25	1.24	1.09
DK	1.28	1.44	1.50	1.59	1.61	1.44
DE	1.26	1.39	1.40	1.44	1.42	1.30
EE	0.92	1.11	1.11	1.33	1.34	1.26
IE	1.11	1.30	1.37	1.44	1.40	1.32
EL	1.00	1.43	1.48	1.60	1.59	1.46
ES	1.01	1.16	1.23	1.29	1.30	1.19
FR	1.21	1.34	1.36	1.51	1.50	1.38
HR			1.26	1.36	1.34	1.20
IT	1.23	1.36	1.54	1.60	1.57	1.46
CY	0.88	1.04	1.23	1.28	1.18	1.09
LV	0.96	1.09	1.13	1.27	1.26	1.16
LT	1.02	1.18	1.16	1.22	1.20	1.11
LU	1.03	1.16	1.18	1.22	1.21	1.08
HU	1.00	1.22	1.16	1.20	1.17	1.01
MT	1.12	1.19	1.36	1.33	1.38	1.40
NL	1.35	1.49	1.56	1.62	1.65	1.57
AT	1.04	1.19	1.20	1.26	1.24	1.10
PL	0.96	1.13	1.11	1.16	1.16	1.01
PT	1.23	1.37	1.43	1.54	1.49	1.39
RO	0.84	1.06	1.20	1.19	1.16	0.97
SI	1.05	1.20	1.29	1.33	1.28	1.13
SK	1.11	1.25	1.29	1.36	1.33	1.19
FI	1.28	1.43	1.47	1.52	1.52	1.41
SE	1.12	1.34	1.41	1.50	1.48	1.34
UK	1.12	1.36	1.54	1.42	1.42	
EU28	1.15	1.33	1.40	1.43	1.42	

* First semester 2020 (06/01/20-29/06/20).

Sources: DG Energy, Member States, Weekly Oil Bulletin 2020
Methodology and Notes: [See Appendices](#)

2.13.1 Prices of Transport Fuels

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



* First semester 2020 (06/01/20-29/06/20).

All Taxes Included, weekly prices.

Incomplete series for the period 2005-2013 due to later accession to the EU of Bulgaria, Croatia and Romania.

Sources: DG Energy, Member States, Weekly Oil Bulletin 2020

Methodology and Notes: [See Appendices](#)

2.13.2 Fuel Prices* – Domestic Consumers

GAS – BAND D2

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

€/GJ (GCV)	2009	2010	2015	2017	2018	2019
EU27_2020	15.50	17.22	20.14	18.76	19.68	20.01
BE	14.33	16.78	17.24	15.32	17.36	15.92
BG	9.67	11.98	10.86	10.42	12.15	12.61
CZ	13.11	14.35	16.21	15.73	15.80	16.32
DK	23.64	26.81	24.48	24.30	25.37	21.41
DE	16.35	15.86	18.93	16.93	16.88	16.35
EE	10.07	11.14	10.68	11.46	11.80	12.38
IE	15.29	14.63	20.11	18.04	21.14	21.22
EL			20.83		18.18	16.30
ES	14.88	15.00	26.57	24.03	24.29	28.35
FR	16.20	15.98	20.35	19.31	21.19	23.31
HR	9.10	10.54	12.76	10.16	9.99	11.28
IT	14.84	21.86	25.13	24.28	26.43	25.96
CY						
LV	10.52	11.28	13.47	10.91	12.50	9.74
LT	11.29	12.59	12.12	10.98	11.24	11.27
LU	12.82	13.13	13.40	11.06	11.91	11.49
HU	13.23	15.38	9.78	10.14	9.64	9.29
MT						
NL	18.73	19.99	22.30	22.65	23.91	26.80
AT	17.23	16.71	19.75	19.40	19.48	18.73
PL	12.78	14.04	13.84	12.27	12.50	12.91
PT	16.52	17.49	27.28	22.19	21.77	21.56
RO	7.45	7.73	9.45	8.55	9.83	9.23
SI	14.96	18.68	16.91	14.76	16.02	15.59
SK	13.21	12.39	13.74	12.36	12.76	13.35
FI						
SE	26.12	29.48	32.58	31.26	33.97	32.43
UK	11.84	11.72	18.56	13.32	14.38	13.99
EU28	14.62	15.86	19.77	17.55	18.44	18.60

* All Taxes and Levies Included.

** Prices from second semester each year.

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.13.2 Fuel Prices* – Domestic Consumers

ELECTRICITY – BAND DC

2 500 kWh < CONSUMPTION < 5 000 kWh

2ND SEMESTER**

€/100 kWh	2009	2010	2015	2017	2018	2019
EU27_2020	16.77	17.77	20.89	20.71	21.32	21.60
BE	18.64	19.74	23.52	28.77	29.36	28.60
BG	8.18	8.30	9.57	9.83	10.05	9.58
CZ	15.33	15.49	14.08	14.88	15.86	17.70
DK	25.55	27.08	30.42	30.10	31.23	29.24
DE	22.94	24.38	29.46	30.48	30.00	28.73
EE	9.20	10.04	12.91	13.19	14.18	14.11
IE	18.55	18.75	24.54	23.55	25.39	25.46
EL	10.32	12.11	17.71	16.20	16.46	15.51
ES	16.84	18.51	23.70	21.77	24.77	23.94
FR	12.07	13.50	16.82	17.56	17.99	19.13
HR	11.64	11.53	13.12	12.36	13.21	13.24
IT	19.97	19.20	24.28	20.80	21.61	23.41
CY	16.42	20.21	18.38	18.26	21.83	22.36
LV	10.54	10.48	16.50	15.82	15.11	16.40
LT	9.26	12.16	12.43	11.07	10.97	12.54
LU	18.82	17.47	17.67	16.18	16.91	17.99
HU	16.62	15.74	11.45	11.34	11.18	10.97
MT	15.13	16.53	12.69	12.98	13.07	13.05
NL	19.06	17.89	18.46	15.56	17.18	20.55
AT	19.09	19.30	19.83	19.78	20.12	20.74
PL	12.91	13.82	14.18	14.51	13.96	13.76
PT	15.94	16.66	22.85	22.30	22.93	21.81
RO	9.79	10.52	13.19	12.89	13.17	14.21
SI	13.41	14.26	16.31	16.13	16.38	16.66
SK	15.60	16.37	15.17	14.42	14.62	15.85
FI	12.89	13.70	15.30	15.99	16.98	17.83
SE	16.46	19.58	18.74	19.93	19.90	20.76
UK	14.07	14.49	21.83	18.56	20.24	22.10
EU28	16.38	17.31	21.02	20.43	21.18	21.66

* All Taxes and Levies Included.

** Prices from second semester each year.

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.13.3 Fuel Prices* – Industrial Consumers

GAS – BAND I3

10000 GJ < CONSUMPTION < 100000 GJ

2ND SEMESTER**

€/GJ (GCV)	2009	2010	2015	2017	2018	2019
EU27_2020	8.61	9.42	9.53	8.03	8.80	8.55
BE	8.50	8.20	7.94	6.36	6.99	6.32
BG	5.96	8.41	7.49	7.02	8.03	8.46
CZ	7.56	10.07	8.17	6.82	7.41	7.95
DK	6.85	10.72	10.19	9.30	10.67	8.38
DE	9.61	11.09	10.47	8.51	8.76	8.23
EE	6.39	7.85	7.54	7.69	9.04	9.26
IE	7.31	8.80	10.28	8.96	10.78	8.94
EL			10.00	7.64	9.32	9.28
ES	7.53	8.08	8.81	7.40	8.29	8.53
FR	8.80	9.69	10.19	9.59	10.85	10.22
HR	7.43	10.95	9.74	6.87	7.87	8.32
IT	7.83	8.34	8.87	7.02	8.13	8.22
CY						
LV	7.69	8.84	8.17	7.92	9.00	7.76
LT	7.55	9.40	6.05	9.19	10.74	7.63
LU	10.03	11.72	10.33	8.71	9.22	7.90
HU	10.06	9.93	9.38	6.84	7.91	7.60
MT						
NL	9.72	8.62	8.91	7.48	8.25	7.90
AT	9.07	9.78	10.50	9.22	9.44	8.60
PL	8.36	9.02	9.39	7.66	8.66	9.33
PT	7.22	9.28	10.52	7.52	8.21	8.67
RO	5.93	6.11	8.05	7.10	7.81	8.76
SI	9.61	11.81	10.57	8.88	9.53	9.40
SK	8.91	10.22	9.63	8.07	8.56	9.92
FI	8.00	9.13	11.73	14.79	16.28	15.41
SE	12.47	13.43	11.61	12.95	13.35	9.92
UK	6.06	6.33	9.75	6.22	7.74	7.59
EU28	8.31	9.06	9.56	7.83	8.68	8.44

* Excluding VAT and other recoverable Taxes and Levies.

** Prices from second semester each year.

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

2.13.3 Fuel Prices* – Industrial Consumers

ELECTRICITY – BAND IC

500 MWh < CONSUMPTION < 2 000 MWh

2ND SEMESTER**

€/100 kWh	2009	2010	2015	2017	2018	2019
EU27_2020	10.11	10.42	11.44	11.04	11.16	11.73
BE	10.79	10.54	10.81	10.87	11.42	11.52
BG	6.39	6.64	7.82	7.90	8.46	8.68
CZ	11.22	10.81	7.83	7.10	7.21	7.84
DK	9.20	9.61	8.99	8.46	7.88	6.81
DE	11.34	11.90	14.93	15.14	15.16	15.80
EE	6.45	7.27	9.58	8.46	9.24	9.15
IE	11.75	11.31	13.57	12.41	13.49	14.27
EL	9.36	10.26	11.50	11.90	10.50	10.84
ES	11.20	10.93	11.33	10.32	10.98	11.04
FR	6.48	7.16	9.51	9.20	8.89	9.50
HR	9.04	9.04	9.28	9.20	10.13	10.55
IT	13.70	14.43	15.97	14.49	14.34	16.16
CY	14.94	17.30	14.12	13.92	18.11	18.00
LV	8.93	9.07	11.83	11.59	10.47	10.70
LT	7.90	10.46	9.97	8.25	8.99	9.45
LU	11.58	10.24	8.93	8.03	8.46	9.04
HU	12.97	10.53	8.70	7.79	8.22	9.54
MT	12.91	18.10	14.05	13.64	13.52	13.54
NL	10.61	9.70	8.46	7.64	8.09	8.99
AT	11.62	11.28	10.47	9.97	10.12	10.88
PL	9.33	9.87	8.61	8.62	8.84	8.28
PT	9.44	9.20	11.54	11.47	11.70	11.45
RO	8.28	8.08	8.02	7.86	8.66	10.14
SI	9.62	10.05	8.70	7.84	8.66	9.53
SK	14.03	11.98	11.22	11.13	12.01	13.17
FI	6.83	6.83	7.06	6.76	7.07	7.21
SE	6.89	8.41	5.90	6.47	7.27	6.94
UK	10.12	10.00	15.20	12.46	14.23	15.60
EU28	10.11	10.38	11.81	11.17	11.46	12.10

* Excluding VAT and other recoverable Taxes and Levies.

** Prices from second semester each year.

Source: Eurostat, May 2020

Methodology and Notes: [See Appendices](#)

Socio-Economic Indicators in the EU



Socio-Economic Indicators in the EU



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3.1 Classification of the Energy Sector*

3.1.1 Comparative table with EUROSTAT and UN 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.

Sources: Eurostat, UN, May 2020

Methodology and Notes: [See Appendices](#)

3.2 Enterprises in the Energy Sector

3.2.1 Number of Enterprises in the Energy Sector

ENTERPRISES SURVEY – EU27_2020

	2015	2017	2018
B05: Mining of Coal and Lignite	<i>245</i>	206	200
B06: Extraction of Crude Petroleum and Natural Gas	323	281	<i>246</i>
B07.21: Mining of Uranium and Thorium Ores	<i>4</i>	4	4
B08.92: Extraction of Peat	<i>981</i>	939	<i>940</i>
B09.1: Support Activities for Petroleum and Natural Gas Extraction	<i>851</i>	1 151	1 025
C19: Manufacture of Coke and Refined Petroleum Products	918	954	899
D35: Electricity, Gas, Steam and Air Conditioning Supply	96 893	98 557	96 922
D35.1: Electricity Power Generation, Transmission and Distribution	90 000	91 600	90 000
35.11: Production of Electricity	83 307	85 139	
35.12: Transmission of Electricity			
35.13: Distribution of Electricity	2 149	2 139	
35.14: Trade of Electricity	3 940	4 059	
D35.2: Manufacture of Gas; Distribution of Gaseous Fuels through Mains	1 900		1 900
35.21: Manufacture of Gas			
35.22: Distribution of Gaseous Fuels through Mains		618	
35.23: Trade of Gas through Mains	804	778	
D35.3: Steam and Air Conditioning Supply	5 359	5 100	5 020
35.30: Steam & Air Conditioning Supply	5 359	5 100	5 020
Broad Sector – no. of Enterprises Reported	100 215	102 092	100 403

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2020
Methodology and Notes: [See Appendices](#)

3.2.1 Number of Enterprises in the Energy Sector

ENTERPRISES SURVEY

	Mining of Coal and Lignite (B05)				Extraction of Crude Petroleum & Natural Gas (B06)			
	2010	2015	2017	2018	2010	2015	2017	2018
EU27_2020		245	206	200		323	281	246
BE		0	0	0	0	0	0	0
BG	23	22	20	21	7	4		3
CZ	12	12	10	11	5	5	5	5
DK	0	0	0	0	9	12	12	18
DE	6	7	7		4	4	4	10
EE	0	0	0	0	1	2	2	2
IE								
EL		12		10				4
ES	48	81		64	4	19	19	9
FR	6	1	0	0	32		42	27
HR	1	0	0	0	4	4	3	3
IT		0	0		3	12	8	
CY	0	0	0	0	0	0	0	0
LV	0	0	0	0	1	2	2	1
LT	0	0	0	0	4	4	5	5
LU	0	0	0	0	0	0	0	0
HU	9	14	10	11	13	8	15	9
MT	0	0	0	0	0	0	0	0
NL	0	0	0	0	48	41	41	41
AT	0	0	0	0	2	2	2	2
PL	48	62	57	56	54	62	52	41
PT	0	0	0	0	0	0	0	0
RO	35	27	20	17	21	38	30	34
SI	2	1	1	1	1	1	3	2
SK					0			
FI	0	0	0	0	0	0	0	0
SE		0	0	0		0	2	0
UK	23		13		98	140	146	155
EU28		260	219			463	427	

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2020
Methodology and Notes: [See Appendices](#)

3.2.1 Number of Enterprises in the Energy Sector

ENTERPRISES SURVEY

	Extraction of Peat (B08.92)				Support Activities for Petroleum & Natural Gas Extraction (B09.1)			
	2010	2015	2017	2018	2010	2015	2017	2018
EU27_2020	985	981	939	940	540	851	940	1025
BE	0	0	0					
BG	10	4			6	14	11	8
CZ		17	15		7	6	6	6
DK	4	2	2		35	55	58	73
DE	74	91	72	82				52
EE	39	41	34	40	0	0	0	0
IE					34	35	47	40
EL	0		0			9	5	5
ES	6	7	7			46		45
FR	23	39	9		36	54	38	29
HR	0	0	0		7	4	5	6
IT	12	4	4			52	40	
CY	0	0	0		0			
LV	49	91	84		0	2	1	1
LT	24	26	24		0	0	0	0
LU	0	0	0		0	0	0	0
HU	15	13	15	15	40	37	36	38
MT	0	0	0					
NL	7	6	5		116	251	280	325
AT	7	5	5	4	8	7	7	7
PL	45	32	35		90	104	128	167
PT	1	1	1		1	4	8	9
RO	8	5	5		91	106	93	102
SI	0	0	0	0	3	2	3	3
SK		42						
FI	463	450	470		0	0	0	0
SE	82	70	66		45	63	60	46
UK	25	19	16		270	251	214	211
EU28	1 010	1 000	955		810	1 102	1 154	1 236

Italics, blue: DG Energy Estimates.

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

Methodology and Notes: [See Appendices](#)

3.2.1 Number of Enterprises in the Energy Sector

ENTERPRISES SURVEY

Mio EUR	Manufacture of Coke & Refined Petroleum Products (C19)				Electricity, Gas, Steam & Air Conditioning Supply (D35)			
	2010	2015	2017	2018	2010	2015	2017	2018
EU27_2020		918	954	899		96893	98557	96922
BE	22		11		301	851	703	670
BG	17	11	9	11	1091	1745	1679	1698
CZ	28	25	28	24	3267	10996	11438	11596
DK	5	3	5	6	1681	1745	1609	1593
DE	95	54	84	80	1722	2059	2028	67984
EE	5	5	4	4	223	230	236	238
IE					403	515	637	580
EL	7	40	38	41	10	7036	6982	6950
ES	18	14	17	19	13098	14044	14787	14127
FR	52	43	25	22	14337	27062	26333	26655
HR	17	14	13	13	234	573	681	645
IT	328	281	282		4028	10775	8861	
CY					4	58	71	78
LV	13	16	14	13	381	533	574	554
LT	6	9	7	6	253	1488	1439	1329
LU	0	0	0	0	67	80	85	77
HU	9	8	9	8	611	610	780	898
MT						3	11	9
NL	42	45	31	39	678	1130	1256	1409
AT	4	5	5	5	1878	2390	2475	2312
PL	165	176	195	143	2047	3192	4313	3718
PT	10	18	17	21	745	1209	4062	4428
RO	54	44	44	47	885	1460	1206	1200
SI	3	4	4	4	648	1530	1483	1394
SK					294	451	547	609
FI	15	17	14	14	736	907	923	927
SE	45	34	38	28	1828	4221	3358	2450
UK	170	132	114	114	651	4279	5373	5542
EU28		1050	1068	1013		101172	103930	102464

3.2.2 Turnover in the Energy Sector

ENTERPRISES SURVEY – EU27_2020

Mio EUR	2015	2017	2018
B05: Mining of Coal and Lignite	<i>10 602</i>	10 743	10 389
B06: Extraction of Crude Petroleum and Natural Gas	89 259	35 720	38 305
B07.21: Mining of Uranium and Thorium Ores			
B08.92: Extraction of Peat	1 597	<i>1 917</i>	<i>2 050</i>
B09.1: Support Activities for Petroleum and Natural Gas Extraction	10 420	5 531	6 147
C19: Manufacture of Coke and Refined Petroleum Products	382 800	395 809	420 031
D35: Electricity, Gas, Steam and Air Conditioning Supply	1 310 000	1 340 000	1 370 000
D35.1: Electricity Power Generation, Transmission and Distribution	1 088 349	1 091 284	1 126 233
35.11: Production of Electricity	288 134	358 193	
35.12: Transmission of Electricity		78 414	
35.13: Distribution of Electricity		157 504	
35.14: Trade of Electricity	563 003	497 174	
D35.2: Manufacture of Gas; Distribution of Gaseous Fuels through Mains			211 421
35.21: Manufacture of Gas			
35.22: Distribution of Gaseous Fuels through Mains			
35.23: Trade of Gas through Mains			
D35.3: Steam and Air Conditioning Supply		33 776	35 000
35.30: Steam and Air Conditioning Supply		33 776	
Broad Sector – Turnover Reported	1 804 679	1 789 720	1 846 921

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2020
Methodology and Notes: [See Appendices](#)

3.2.2 Turnover in the Energy Sector

ENTERPRISES SURVEY

Mio EUR	Mining of Coal and Lignite (B05)				Extraction of Crude Petroleum & Natural Gas (B06)			
	2010	2015	2017	2018	2010	2015	2017	2018
EU27_2020	14838	10602	10743	10389	89259	35720	38305	
BE		0	0	0	0	0	0	0
BG	331	349	345	313	26	30		
CZ	2812	1578	1560	1446				
DK	0	0	0		7050	3896	3894	4559
DE	3921	2162	2113	1266	2762	2978	2600	13720
EE	0	0	0	0		245	270	264
IE								
EL		93		46				44
ES	596	236		64	80	126	621	813
FR		0	0	0	728			354
HR		0	0	0			52	49
IT		0	0	0	46241	46395	3313	3313
CY	0	0	0	0	0	0	0	0
LV	0	0	0	0				
LT	0	0	0	0	69	39	29	36
LU	0	0	0	0	0	0	0	0
HU	7	9	5	9	81	33	59	87
MT	0	0	0	0	0	0	0	0
NL	0	0	0	0	34862	26735	17171	18059
AT	0	0	0	0				
PL	5974	5755	6203	5821				
PT	0	0	0	0	0	0	0	0
RO	358	21	15	7	4191	4246	4340	5089
SI								
SK					0			
FI	0	0	0		0	0	0	
SE				0		0	0	0
UK	1112		351		44980	28917	26258	30979
EU28	15950	11102	11094		118176	61978	69284	

Italics, blue: DG Energy Estimates.

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

Methodology and Notes: [See Appendices](#)

3.2.2 Turnover in the Energy Sector

ENTERPRISES SURVEY

Mio EUR	Extraction of Peat (B08.92)				Support Activities for Petroleum & Natural Gas Extraction (B09.1)			
	2010	2015	2017	2018	2010	2015	2017	2018
EU27_2020	1600	1597	1917	2050	10420	5531	6147	
BE	0	0	0					
BG	1				0			
CZ		7	6		46			
DK					633	510	710	
DE	418	400	312	467				377
EE	77	84	93	101	0	0	0	0
IE					74	10	16	13
EL	0		0			29	24	25
ES	11	10	11			99		73
FR	74	52	39		302	266	290	284
HR	0	0	0				148	195
IT	12	5	6			2238	448	448
CY	0	0	0		0			
LV	101	151			0			
LT	40	61			0	0	0	0
LU	0	0	0		0	0	0	0
HU	3	5	6	6	95	133	141	137
MT	0	0	0					
NL								
AT					14			
PL					378	326	204	336
PT								2
RO	0	1	1		874	638	380	582
SI	0	0	0	0				
SK		12						
FI	554	472	459		0	0	0	
SE	31	29	18			84		173
UK		102			8375	9777	6087	5331
EU28	1700	1698	2017	2150	20197	11617	11477	

Italics, blue: DG Energy Estimates.

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

Methodology and Notes: [See Appendices](#)

3.2.2 Turnover in the Energy Sector

ENTERPRISES SURVEY

Mio EUR	Manufacture of Coke & Refined Petroleum Products (C19)				Electricity, Gas, Steam & Air Conditioning Supply (D35)			
	2010	2015	2017	2018	2010	2015	2017	2018
EU27_2020	477 437	382 800	395 809	420 031	1 116 322	1 310 000	1 340 000	1 370 000
BE	48 074		42 339		43 772	36 969	32 197	39 787
BG					7 279	8 357	8 232	8 323
CZ	4 558				37 371	40 927	41 998	49 513
DK					20 378	21 487	25 502	26 973
DE	120 832	107 408	95 950	99 193	426 882	537 677	536 535	615 366
EE	178	254	194	255	1 834	1 765	2 021	2 262
IE					7 186	8 013	8 190	8 556
EL	15 340	14 818	13 891	16 563	5 943	19 684	21 321	20 593
ES	34 773	36 051	38 156	56 402	59 706	93 787	88 248	92 205
FR	61 248	39 383		45 381	109 649	110 123	126 595	127 351
HR					3 684	4 359	5 031	5 158
IT	46 038	35 596	37 662	39 394	160 950	195 056	218 353	214 976
CY					782	630	669	751
LV	1	8			2 311	2 082	2 071	2 081
LT					3 279	2 376	2 280	2 751
LU	0	0	0	0	1 951	4 647	3 893	4 958
HU	8 298	6 529	6 855	9 373	22 059	16 727	15 608	15 579
MT								
NL	37 272	34 362	30 284	37 104	41 197	31 409	27 086	30 776
AT		7 226	7 461	9 927	29 297	35 906	40 335	45 386
PL	27 575	27 045	30 326		42 567	47 826	46 699	46 376
PT	6 767	7 131	7 169	7 765	17 842	21 119	21 318	22 880
RO	3 272	3 374	3 673	4 672	12 078	13 175	12 427	12 971
SI					4 034	6 076	7 305	6 940
SK					11 351	11 284	12 683	12 978
FI					14 455	12 422	12 428	14 413
SE		11 225			28 486	26 220	25 360	26 878
UK	44 764	40 198	74 561	84 111	109 515	148 344	131 861	141 885
EU28	522 200	422 998	470 371	504 141	1 225 837	1 460 000	1 480 000	1 511 885

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2020
Methodology and Notes: [See Appendices](#)

3.2.3 Number of Persons Declared as Employed in the Energy Sector

ENTERPRISES SURVEY – EU27_2020

	2015	2017	2018
B05: Mining of Coal and Lignite	153 291	127 461	135 698
B06: Extraction of Crude Petroleum and Natural Gas	59 898	37 517	35 440
B07.21: Mining of Uranium and Thorium Ores			
B08.92: Extraction of Peat	<i>10 714</i>	10 094	<i>10 310</i>
B09.1: Support Activities for Petroleum and Natural Gas Extraction	<i>36 816</i>	<i>22 051</i>	21 860
C19: Manufacture of Coke and Refined Petroleum Products	<i>113 733</i>	<i>123 030</i>	134 854
D35: Electricity, Gas, Steam and Air Conditioning Supply	1 090 709	1 160 000	1 199 461
D35.1: Electricity Power Generation, Transmission and Distribution	845 893	868 239	917 268
35.11: Production of Electricity	414 801	433 823	
35.12: Transmission of Electricity	53 752	56 797	
35.13: Distribution of Electricity	283 974	270 301	
35.14: Trade of Electricity	93 368	107 322	
D35.2: Manufacture of Gas; Distribution of Gaseous Fuels through Mains		155 200	156 485
35.21: Manufacture of Gas		2 799	
35.22: Distribution of Gaseous Fuels through Mains		51 673	
35.23: Trade of Gas through Mains		100 718	
D35.3: Steam and Air Conditioning Supply			125 706
35.30: Steam and Air Conditioning Supply			
Broad Sector – Employment Reported	1 465 161	1 480 153	1 537 623

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2020
Methodology and Notes: [See Appendices](#)

3.2.3 Number of Persons Declared as Employed in the Energy Sector

ENTERPRISES SURVEY

	Mining of Coal and Lignite (B05)				Extraction of Crude Petroleum & Natural Gas (B06)			
	2010	2015	2017	2018	2010	2015	2017	2018
EU27_2020		153 291	127 461	135 698		59 898	37 517	35 440
BE		0	0	0	0	0	0	0
BG	13 269	11 995	10 300	9 725				34
CZ	24 265	18 716	15 138	14 214				
DK	0	0	0		566	1 051	2 542	3 387
DE	33 672	17 468	13 011		3 754	3 927	3 526	4 925
EE	0	0	0	0		3 043	2 819	2 637
IE								
EL		316		259				102
ES	6 105	1 684		662	242	368	995	128
FR	28	2	0		814			
HR		0	0	0		7 852	63	59
IT		0	0	0	12 116	12 681	1 864	1 864
CY	0	0	0	0	0	0	0	0
LV	0	0	0	0	1	20	12	11
LT	0	0	0	0	252	212	149	141
LU	0	0	0	0	0	0	0	0
HU	111	124	76	208	75	68	125	33
MT	0	0	0	0	0	0	0	0
NL	0	0	0	0	3 173	3 913	3 252	2 972
AT	0	0	0	0				
PL	124 925	96 076	82 084	89 579				
PT	0	0	0	0	0	0	0	0
RO	18 011	1 843	953	589	30 546	23 486	19 752	18 639
SI								
SK					0			
FI	0	0	0		0	0	0	
SE				0		0	0	0
UK	6 023	2 844	1 068	1 400	15 300	17 127	13 540	12 938
EU28		156 135	128 529	137 098		77 025	51 057	48 378

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2020
Methodology and Notes: [See Appendices](#)

3.2.3 Number of Persons Declared as Employed in the Energy Sector

ENTERPRISES SURVEY

	Extraction of Peat (B08.92)				Support Activities for Petroleum & Natural Gas Extraction (B09.1)			
	2010	2015	2017	2018	2010	2015	2017	2018
EU27_2020		<i>10 714</i>	10 094	<i>10 310</i>		<i>36 816</i>	<i>22 051</i>	21 860
BE	0	0	0					
BG	52	55			14	25	17	18
CZ		71	61		421			
DK						1 587	1 324	2 444
DE	2 003	1 762	1 599	1 775				1 661
EE	1 153	963	781	800	0	0	0	0
IE					35	29	38	36
EL	0		0			276	337	359
ES	48	36	38			191		158
FR	248	130	130		110	386	524	
HR	0	0	0			2 273	1 842	1 893
IT	12	21	25			2 188	1 691	1 691
CY	0	0	0		0			
LV	1 977	2 158	2 061		0	2	1	1
LT	1 126	1 149			0	0	0	0
LU	0	0	0		0	0	0	0
HU	116	97	89	87	1 089	1 062	848	349
MT	0	0	0					
NL	22	104	223					
AT					27			
PL					4 082	4 638	2 781	3 678
PT								14
RO	26	25	23		6 267	6 771	4 776	5 129
SI	0	0	0	0				
SK		114						
FI	1 845	1 977	1 852		0	0	0	
SE	306	165	143			75		74
UK	355		466		22 879			
EU28		<i>11 114</i>	10 560	<i>10 710</i>		<i>56 816</i>	<i>42 051</i>	

Italics, blue: DG Energy Estimates.

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

Methodology and Notes: [See Appendices](#)

3.2.3 Number of Persons Declared as Employed in the Energy Sector

ENTERPRISES SURVEY

	Manufacture of Coke and Refined Petroleum Products (C19)				Electricity, Gas, Steam and Air Conditioning Supply (D35)			
	2010	2015	2017	2018	2010	2015	2017	2018
EU27_2020		<i>113 733</i>	<i>123 030</i>	134 854		1 090 709	1 160 000	1 199 461
BE	4 091		4 558		19 193	20 293	18 942	31 814
BG		2 078	2 449	2 466	34 191	31 751	31 779	31 771
CZ	2 747				31 480	34 536	37 296	39 332
DK					11 235	13 815	11 474	11 382
DE	19 452	22 302	21 715	24 479	221 264	224 669	234 461	375 474
EE	1 406	1 679	1 297	1 293	5 681	4 949	5 121	4 950
IE					9 117	8 846	9 588	9 592
EL	4 333	3 588	3 718	4 028	22 834	25 764	29 842	29 583
ES	8 954	8 453	8 755	13 156	48 687	39 764	41 844	46 558
FR	15 095				170 194	190 364	239 570	
HR		262	4 616	4 505	16 619	14 893	15 218	14 292
IT	16 493	11 065	11 471	11 486	86 414	89 109	96 157	96 962
CY					2 470	2 130	2 081	2 111
LV	12	65	58	54	10 907	11 344	10 981	10 343
LT					15 876	13 522	12 185	12 928
LU	0	0	0	0	1 196	1 529	1 679	1 710
HU	6 329	5 691	5 711	10 589	25 715	24 601	24 991	28 213
MT						10		67
NL	5 908	5 299	5 577	5 627	22 882	27 969	27 216	27 557
AT		1 180	1 268	2 004	28 685	29 168	28 847	32 409
PL	13 623	13 495	13 890		162 409	128 183	125 733	134 640
PT	1 971	1 830	1 778	1 941	9 496	9 589	12 709	13 535
RO	3 960	2 560	2 094	2 179	81 111	72 333	66 385	65 725
SI		26		9	8 207	8 958	8 797	8 635
SK					20 034	17 873	17 364	17 677
FI					13 463	13 368	13 797	13 433
SE		2 879			31 115	31 379	32 790	33 885
UK				11 321	123 965	141 099	147 788	153 087
EU28		124 733	134 030	146 174		1 231 808	1 300 000	1 352 548

Italics, blue: DG Energy Estimates.

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

Methodology and Notes: [See Appendices](#)

3.3 Economy

3.3.1 GDP at Current Prices

Mrd EUR*	2005	2010	2015	2016	2018	2019
EU27_2020	9560.8	10978.3	12213.0	12550.5	13484.8	13918.3
BE	310.0	363.1	416.7	430.4	459.8	473.6
BG	24.0	38.0	45.7	48.6	56.1	60.7
CZ	109.6	156.7	168.5	176.4	207.6	219.9
DK	212.8	243.2	273.0	283.1	301.3	310.6
DE	2288.3	2564.4	3030.1	3134.1	3344.4	3435.8
EE	11.3	14.9	20.8	21.7	26.0	28.0
IE	170.2	167.7	262.8	271.7	324.0	347.2
EL	199.2	226.0	177.3	176.5	184.7	187.5
ES	927.4	1072.7	1077.6	1113.8	1202.2	1244.8
FR	1765.9	1995.3	2198.4	2234.1	2353.1	2419.0
HR	36.5	45.1	44.6	46.6	51.6	53.9
IT	1493.6	1611.3	1655.4	1695.8	1766.2	1787.7
CY	15.0	19.4	17.8	18.9	21.1	21.9
LV	13.7	17.8	24.4	25.1	29.1	30.5
LT	21.0	28.0	37.3	38.9	45.3	48.3
LU	30.0	40.2	52.1	54.9	60.1	63.5
HU	90.9	99.0	112.2	115.3	133.8	143.8
MT	5.1	6.6	9.6	10.3	12.4	13.2
NL	550.9	639.2	690.0	708.3	774.0	810.7
AT	254.1	295.9	344.3	357.3	385.7	398.5
PL	246.2	361.8	430.3	426.6	496.4	527.0
PT	158.6	179.6	179.7	186.5	204.3	212.3
RO	79.2	125.4	160.3	170.4	204.6	222.1
SI	29.1	36.4	38.9	40.4	45.8	48.0
SK	39.4	68.1	79.8	81.0	89.7	94.2
FI	164.7	188.1	211.4	217.5	234.4	240.9
SE	313.8	374.3	454.2	466.3	471.2	474.7
UK	2041.9	1867.4	2641.0	2435.0	2423.7	2523.3
EU28	11602.7	12845.7	14854.0	14985.5	15908.6	16441.6

* Units in Milliard – Long Scale = €1 000 Million.

Source: DG Economic and Financial Affairs, AMECO, May 2020

Methodology and Notes: [See Appendices](#)

3.3.2 GDP per Capita at Current Prices

Thousand EUR/cap*	2005	2010	2015	2016	2018	2019
EU27_2020	22.0	24.9	27.5	28.2	30.2	31.1
BE	29.7	33.5	37.1	38.0	40.3	41.3
BG	3.1	5.1	6.3	6.8	8.0	8.7
CZ	10.7	15.0	16.0	16.7	19.6	20.6
DK	39.3	43.9	48.2	49.6	52.1	53.5
DE	27.7	31.3	37.3	38.1	40.4	41.4
EE	8.3	11.1	15.8	16.5	19.7	21.2
IE	41.4	36.9	56.2	57.5	67.1	70.8
EL	18.2	20.3	16.3	16.4	17.2	17.5
ES	21.4	23.1	23.2	24.0	25.8	26.5
FR	28.1	30.9	33.1	33.5	35.2	36.1
HR	8.5	10.5	10.6	11.1	12.6	13.2
IT	25.8	27.2	27.2	28.0	29.2	29.6
CY	20.5	23.7	21.0	22.2	24.5	25.1
LV	6.1	8.4	12.3	12.7	15.0	15.9
LT	6.3	8.9	12.8	13.5	16.1	17.3
LU	65.1	80.0	92.5	95.2	99.8	103.5
HU	9.0	9.9	11.4	11.7	13.7	14.7
MT	12.8	15.9	21.9	23.0	26.0	26.8
NL	33.8	38.6	40.8	41.7	45.1	46.9
AT	31.0	35.4	40.1	41.1	43.7	45.0
PL	6.4	9.5	11.3	11.2	13.1	13.9
PT	15.1	17.0	17.3	18.0	19.9	20.7
RO	3.7	6.2	8.1	8.6	10.5	11.4
SI	14.6	17.8	18.8	19.6	22.1	23.1
SK	7.3	12.6	14.7	14.9	16.5	17.3
FI	31.4	35.2	38.6	39.6	42.5	43.7
SE	34.8	40.1	46.6	47.3	46.6	46.4
UK	33.9	29.9	40.7	37.2	36.6	37.9
EU28	23.5	25.5	29.2	29.4	31.0	32.0

* €1 000' per Capita.

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

3.3.3 GDP at 2015 Prices

Mrd EUR*	2005	2010	2015	2016	2018	2019
EU27_2020	11 053.3	11 613.7	12 213.0	12 465.6	13 078.8	13 270.8
BE	362.9	390.7	416.7	423.0	437.6	443.6
BG	35.7	41.8	45.7	47.4	50.6	52.3
CZ	137.4	155.0	168.5	172.6	185.2	189.8
DK	253.4	256.1	273.0	281.9	294.5	301.1
DE	2 621.3	2 779.8	3 030.1	3 097.6	3 222.5	3 240.7
EE	17.9	17.6	20.8	21.3	23.6	24.7
IE	185.8	189.8	262.8	272.5	318.8	336.5
EL	220.4	216.8	177.3	176.9	183.1	186.5
ES	1 028.7	1 079.0	1 077.6	1 110.3	1 169.2	1 192.0
FR	2 005.2	2 088.8	2 198.4	2 222.5	2 312.0	2 342.4
HR	43.8	45.0	44.6	46.2	48.9	50.3
IT	1 737.6	1 712.8	1 655.4	1 676.8	1 718.3	1 723.5
CY	17.0	19.4	17.8	19.0	20.7	21.3
LV	21.0	20.5	24.4	24.9	26.9	27.5
LT	29.3	31.0	37.3	38.3	41.4	43.0
LU	40.0	45.2	52.1	54.4	57.2	58.5
HU	102.4	101.4	112.2	114.7	125.7	131.9
MT	6.6	7.3	9.6	10.2	11.6	12.2
NL	620.7	664.8	690.0	705.1	744.5	757.5
AT	306.1	326.7	344.3	351.4	368.9	374.7
PL	293.7	370.7	430.3	443.4	489.3	509.3
PT	182.0	187.4	179.7	183.3	194.8	199.0
RO	120.4	138.5	160.3	168.0	187.9	195.6
SI	34.7	38.1	38.9	40.1	43.7	44.8
SK	55.3	70.2	79.8	81.5	87.3	89.3
FI	201.1	210.6	211.4	217.1	227.8	230.0
SE	372.6	408.9	454.2	465.1	487.0	493.0
UK	2 331.2	2 389.3	2 641.0	2 691.6	2 779.3	2 818.3
EU28	13 384.5	14 003.0	14 854.0	15 157.2	15 858.2	16 089.1

* Units in Milliard – Long Scale = €1 000 Million.

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

Methodology and Notes: [See Appendices](#)

3.3.4 GDP per Capita at 2015 Prices

Thousand EUR/cap*	2005	2010	2015	2016	2018	2019
EU27_2020	25.4	26.4	27.5	28.0	29.3	29.7
BE	34.7	36.0	37.1	37.4	38.4	38.7
BG	4.6	5.6	6.3	6.6	7.2	7.5
CZ	13.5	14.8	16.0	16.4	17.5	17.8
DK	46.8	46.3	48.2	49.4	50.9	51.9
DE	31.8	34.0	37.3	37.7	38.9	39.0
EE	13.2	13.2	15.8	16.2	17.9	18.6
IE	45.2	41.7	56.2	57.7	66.0	68.6
EL	20.1	19.5	16.3	16.4	17.0	17.4
ES	23.8	23.2	23.2	23.9	25.1	25.4
FR	31.9	32.3	33.1	33.4	34.5	35.0
HR	10.2	10.5	10.6	11.0	11.9	12.3
IT	30.0	28.9	27.2	27.6	28.4	28.6
CY	23.2	23.7	21.0	22.4	23.9	24.4
LV	9.3	9.7	12.3	12.6	13.9	14.3
LT	8.7	9.9	12.8	13.3	14.7	15.4
LU	86.8	90.0	92.5	94.5	94.9	95.2
HU	10.1	10.1	11.4	11.7	12.9	13.5
MT	16.4	17.7	21.9	22.6	24.5	24.6
NL	38.1	40.1	40.8	41.5	43.3	43.8
AT	37.3	39.1	40.1	40.4	41.8	42.3
PL	7.7	9.7	11.3	11.7	12.9	13.4
PT	17.3	17.7	17.3	17.7	18.9	19.4
RO	5.6	6.8	8.1	8.5	9.6	10.1
SI	17.4	18.6	18.8	19.4	21.2	21.5
SK	10.3	13.0	14.7	15.0	16.0	16.4
FI	38.4	39.4	38.6	39.6	41.3	41.7
SE	41.3	43.8	46.6	47.2	48.1	48.2
UK	38.7	38.2	40.7	41.2	41.9	42.3
EU28	27.1	27.8	29.2	29.7	31.0	31.3

* €1 000' 2010 per Capita.

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

Methodology and Notes: [See Appendices](#)

3.4 Demography

3.4.1 Population

ON 1ST JANUARY

Thousand Inhabitants	2005	2010	2015	2016	2018	2019
EU27_2020	434 416.3	440 660.4	443 666.8	444 802.8	446 098.4	446 824.6
BE	10 445.9	10 839.9	11 237.3	11 311.1	11 398.6	11 455.5
BG	7 688.6	7 421.8	7 202.2	7 153.8	7 050.0	7 000.0
CZ	10 198.9	10 462.1	10 538.3	10 553.8	10 610.1	10 649.8
DK	5 411.4	5 534.7	5 659.7	5 707.3	5 781.2	5 806.1
DE	82 500.8	81 802.3	81 197.5	82 175.7	82 792.4	83 019.2
EE	1 358.9	1 333.3	1 314.9	1 315.9	1 319.1	1 324.8
IE	4 111.7	4 549.4	4 677.6	4 726.3	4 830.4	4 904.2
EL	10 969.9	11 119.3	10 858.0	10 783.7	10 741.2	10 724.6
ES	43 296.3	46 486.6	46 449.6	46 440.1	46 658.4	46 937.1
FR	62 772.9	64 658.9	66 458.2	66 638.4	66 918.9	67 012.9
HR	4 310.9	4 302.8	4 225.3	4 190.7	4 105.5	4 076.2
IT	57 874.8	59 190.1	60 795.6	60 665.6	60 484.0	60 359.5
CY	733.1	819.1	847.0	848.3	864.2	875.9
LV	2 249.7	2 120.5	1 986.1	1 969.0	1 934.4	1 920.0
LT	3 355.2	3 142.0	2 921.3	2 888.6	2 808.9	2 794.2
LU	461.2	502.1	563.0	576.2	602.0	613.9
HU	10 097.5	10 014.3	9 855.6	9 830.5	9 778.4	9 772.8
MT	402.7	414.0	439.7	450.4	475.7	493.6
NL	16 305.5	16 575.0	16 900.7	16 979.1	17 181.1	17 282.2
AT	8 201.4	8 351.6	8 584.9	8 700.5	8 822.3	8 858.8
PL	38 173.8	38 022.9	38 005.6	37 967.2	37 976.7	37 972.8
PT	10 494.7	10 573.5	10 374.8	10 341.3	10 291.0	10 276.6
RO	21 382.4	20 294.7	19 870.6	19 760.6	19 530.6	19 414.5
SI	1 997.6	2 047.0	2 062.9	2 064.2	2 066.9	2 080.9
SK	5 372.7	5 390.4	5 421.3	5 426.3	5 443.1	5 450.4
FI	5 236.6	5 351.4	5 471.8	5 487.3	5 513.1	5 517.9
SE	9 011.4	9 340.7	9 747.4	9 851.0	10 120.2	10 230.2
UK	60 182.1	62 510.2	64 853.4	65 379.0	66 273.6	66 647.1
EU28	494 598.3	503 170.6	508 520.2	510 181.9	512 372.0	513 471.7

3.5 Employment

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

MEMBER STATES DATA – EU27_2020

Thousands	2015	2016	2018	2019
B05: Mining of Coal and Lignite	288.6	272.5	246.5	249.1
B06: Extraction of Crude Petroleum and Natural Gas	64.3	63.2	51.3	54.7
B08.92: Extraction of Peat*	<i>10.7</i>	10.1	<i>10.3</i>	<i>10.3</i>
B091: Support Activities for Petroleum and Natural Gas Extraction*	<i>36.8</i>	<i>22.1</i>	21.9	<i>21.9</i>
C19: Manufacture of Coke and refined Petroleum Products	<i>160.7</i>	<i>157.7</i>	161.6	165.5
D35: Electricity, Gas, Steam and Air Conditioning Supply	1 370.6	1 372.5	1 365.8	1 407.9
Broad Sector Total Employment**	1 931.7	1 898.0	1 857.4	<i>1 909.4</i>

* According to the Structural Business Survey (SBS), May 2020.

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

Italics, blue: DG Energy Estimates.

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

Methodology and Notes: [See Appendices](#)

3.5.2 Employment Rate in all Economic Sectors *

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

%	2005	2010	2015	2016	2018	2019
EU27_2020	68.8	70.3	71.9	72.3	73.1	73.4
BE	66.7	67.7	67.6	67.6	68.6	69
BG	62.1	66.7	69.3	68.7	71.5	73.2
CZ	70.4	70.2	74.0	75.0	76.6	76.7
DK	79.8	78.0	76.9	77.5	78.2	79.1
DE	73.8	76.7	77.6	77.9	78.6	79.2
EE	70.7	73.9	76.7	77.5	79.1	78.9
IE	73.9	71.6	72.1	72.7	72.9	73.3
EL	66.4	67.8	67.8	68.2	68.2	68.4
ES	70.0	73.5	74.3	74.2	73.7	73.8
FR	69.7	70.3	71.5	71.7	72.2	72
HR	63.3	65.1	66.9	65.6	66.3	66.5
IT	62.5	62.0	64.0	64.9	65.6	65.7
CY	72.4	73.6	73.9	73.4	75.0	76
LV	69.1	73.0	75.7	76.3	77.7	77.3
LT	68.7	70.2	74.1	75.5	77.3	78
LU	66.6	68.2	70.9	70.0	71.1	72
HU	61.3	61.9	68.6	70.1	71.9	72.6
MT	57.6	60.4	68.8	70.6	74.7	76
NL	75.1	77.9	79.6	79.7	80.3	80.9
AT	71.4	74.4	75.5	76.2	76.8	77.1
PL	64.4	65.3	68.1	68.8	70.1	70.6
PT	73.2	73.7	73.4	73.7	75.1	75.5
RO	62.3	64.9	66.1	65.6	67.8	68.6
SI	70.7	71.5	71.8	71.6	75.0	75.2
SK	68.9	68.7	70.9	71.9	72.4	72.7
FI	74.7	74.5	75.8	75.9	77.9	78.3
SE	78.2	79.1	81.7	82.1	82.7	82.9
UK	75.4	75.4	76.9	77.3	77.9	78.1
EU28	69.6	71.0	72.5	72.9	73.7	74.1

* Percentage of active population.

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

Methodology and Notes: [See Appendices](#)

3.5.3 Unemployment Rate in all Economic Sectors *

MEMBER STATES' DATA – ALL SECTORS

%	2005	2010	2015	2016	2018	2019
EU27_2020	9.6	9.8	10.0	9.1	7.2	6.7
BE	8.5	8.3	8.5	7.8	6.0	5.4
BG	10.1	10.3	9.2	7.6	5.2	4.2
CZ	7.9	7.3	5.1	4.0	2.2	2
DK	4.8	7.7	6.3	6.0	5.1	5
DE	11.2	7.0	4.6	4.1	3.4	3.2
EE	8.0	16.7	6.2	6.8	5.4	4.4
IE	4.6	14.6	10.0	8.4	5.8	5
EL	10.0	12.7	24.9	23.6	19.3	17.3
ES	9.2	19.9	22.1	19.6	15.3	14.1
FR	8.5	8.9	10.1	9.8	8.7	8.2
HR	12.7	11.7	16.2	13.1	8.5	6.6
IT	7.7	8.4	11.9	11.7	10.6	10
CY	5.3	6.3	15.0	13.0	8.4	7.1
LV	10.0	19.5	9.9	9.6	7.4	6.3
LT	8.3	17.8	9.1	7.9	6.2	6.3
LU	4.5	4.4	6.7	6.3	5.6	5.6
HU	7.2	11.2	6.8	5.1	3.7	3.4
MT	6.9	6.9	5.4	4.7	3.7	3.4
NL	5.9	5.0	6.9	6.0	3.8	3.4
AT	5.6	4.8	5.7	6.0	4.9	4.5
PL	17.8	9.7	7.5	6.2	3.9	3.3
PT	7.7	11.0	12.6	11.2	7.1	6.5
RO	7.2	7.0	6.8	5.9	4.2	3.9
SI	6.5	7.3	9.0	8.0	5.1	4.5
SK	16.3	14.4	11.5	9.7	6.5	5.8
FI	8.4	8.4	9.4	8.8	7.4	6.7
SE	7.5	8.6	7.4	7.0	6.4	6.8
UK	4.8	7.8	5.3	4.8	4.0	3.8
EU28	9.0	9.6	9.4	8.5	6.8	6.3

* Percentage of active population.

Source: Eurostat, Labour Force Survey (LFS), May 2020
Methodology and Notes: [See Appendices](#)

Environment Indicators in the EU



Environment Indicators in the EU



4

Summary

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4.1 Gases Emissions

4.1.1 Greenhouse Gas (GHG) Emissions

EU27_2020 AND MEMBER STATES – TOTAL*

Million ton CO ₂ equiv.	1990	2005	2010	2016	2017	2018
EU27_2020	4911.6	4647.1	4288.3	3941.9	3976.7	3893.1
Index 1990	100.0%	94.6%	87.3%	80.3%	81.0%	79.3%
BE	149.6	149.9	138.5	122.6	122.8	123.6
BG	102.5	64.7	61.2	60.0	62.4	58.6
CZ	199.6	150.0	141.8	131.9	130.9	129.4
DK	72.6	69.3	66.0	53.5	51.3	51.3
DE	1261.6	1016.4	966.9	935.8	923.8	888.7
EE	40.4	19.2	21.1	19.8	21.1	20.2
IE	56.6	72.2	63.6	64.1	64.1	64.2
EL	105.8	139.1	121.1	94.9	99.0	96.1
ES	294.2	455.0	371.3	342.7	357.4	352.2
FR	556.9	570.7	527.9	475.8	480.9	462.8
HR	32.4	30.2	28.3	24.7	25.5	24.4
IT	520.4	595.1	522.6	446.5	442.6	439.3
CY	6.4	10.2	10.4	9.7	10.0	9.9
LV	26.6	11.6	12.6	11.6	11.7	12.2
LT	48.4	22.9	21.0	20.7	20.9	20.6
LU	13.1	14.3	13.4	11.6	11.9	12.4
HU	94.5	76.2	65.6	61.8	64.5	64.1
MT	2.8	3.2	3.3	2.3	2.6	2.7
NL	226.3	225.7	224.0	207.2	205.4	200.5
AT	79.4	94.4	86.7	81.8	84.3	81.5
PL	475.7	405.4	414.4	402.3	417.2	415.9
PT	60.2	88.0	71.6	69.4	74.5	71.6
RO	248.8	151.8	124.7	115.2	117.9	116.5
SI	18.7	20.5	19.6	17.7	17.4	17.6
SK	73.6	51.4	46.5	42.5	43.6	43.5
FI	72.2	71.2	77.4	60.1	57.5	58.8
SE	72.5	68.6	66.6	55.8	55.5	54.6
UK	809.7	726.6	642.4	516.3	507.7	498.7
EU28	5721.4	5373.7	4930.6	4458.2	4484.4	4391.8

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

Source: European Environment Agency, June 2020

Methodology and Notes: [See Appendices](#)

4.1.1 Greenhouse Gas (GHG) Emissions

EU27_2020 AND MEMBER STATES – ENERGY RELATED

Million ton CO ₂ equiv.	2018								
	Energy	of which:							
		Energy Industries	Manufacturing Industries & Construction	Transport	Commercial/ Institutional	Residential	Agriculture/ Forestry/ Fisheries	Other Sectors	Other Combustion & Fugitive Emissions
EU27_2020	2 907.1	1 015.2	449.6	828.0	138.8	321.7	76.5	4.6	72.6
Share (%)	100.0%	34.9%	15.5%	28.5%	4.8%	11.1%	2.6%	0.2%	2.5%
BE	85.6	20.0	13.8	26.3	5.7	16.6	2.4	0.1	0.7
BG	41.2	23.5	4.3	9.7	0.4	1.0	0.5	0.0	1.8
CZ	96.9	51.1	10.0	19.1	2.8	9.1	1.2	0.3	3.3
DK	33.7	11.5	4.0	13.4	0.7	2.0	1.5	0.2	0.4
DE	720.3	295.2	130.1	163.6	32.1	83.7	6.2	0.8	8.5
EE	17.6	13.8	0.7	2.4	0.1	0.3	0.2	0.1	0.0
IE	36.6	10.6	4.7	12.2	2.1	6.2	0.7	0.0	0.1
EL	67.3	38.3	5.1	17.4	0.7	4.2	0.5	0.1	0.9
ES	253.4	72.2	46.4	90.3	12.6	15.7	11.6	0.5	4.0
FR	312.0	41.5	51.4	132.2	28.2	43.2	11.4	0.0	4.1
HR	16.4	3.9	2.4	6.4	0.6	1.9	0.7	0.0	0.5
IT	344.3	95.8	53.9	104.3	25.3	49.7	8.2	0.4	6.8
CY	6.5	3.4	0.6	2.1	0.1	0.3	0.1	0.0	0.0
LV	7.7	1.9	0.8	3.4	0.4	0.6	0.5	0.0	0.1
LT	11.9	2.4	1.3	6.1	0.4	1.0	0.2	0.0	0.5
LU	9.1	0.2	1.2	6.0	0.6	1.0	0.0	0.0	0.0
HU	45.5	13.1	5.3	13.9	2.9	7.9	1.5	0.0	0.8
MT	1.5	0.7	0.0	0.7	0.1	0.0	0.0	0.0	0.0
NL	155.3	60.1	28.0	31.5	7.5	16.8	9.6	0.2	1.6
AT	54.7	10.1	10.9	24.4	1.3	6.6	0.9	0.1	0.4
PL	342.1	163.4	31.7	65.3	7.0	38.2	12.4	0.0	24.0
PT	48.5	17.9	7.6	17.2	1.2	2.1	1.2	0.1	1.2
RO	77.0	24.3	12.2	18.4	2.2	7.9	1.5	0.6	9.9
SI	14.2	4.8	1.8	5.8	0.3	0.8	0.2	0.0	0.4
SK	29.3	7.4	7.6	7.7	1.5	3.0	0.4	0.1	1.6
FI	42.1	18.7	6.9	11.7	1.2	1.3	1.3	1.0	0.1
SE	36.4	9.4	6.9	16.5	0.7	0.6	1.3	0.2	0.9
UK	372.1	95.0	51.0	122.0	19.8	67.5	5.1	1.6	10.0
EU28	3 279.2	1 110.1	500.7	950.1	158.6	389.2	81.6	6.2	82.6

4.1.1 Greenhouse Gas (GHG) Emissions

EU27_2020 AND MEMBER STATES – NOT ENERGY RELATED

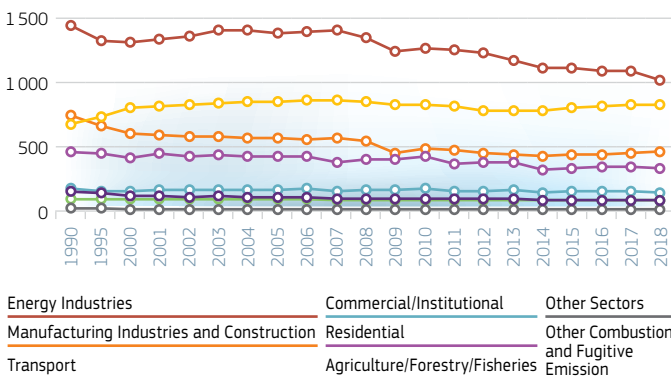
Million ton CO ₂ equiv.	2018					
	GHG Emissions other than from Energy	of which:				International aviation
		Industrial Processes & Product Use	Agriculture	Waste & Others	Indirect CO ₂	
EU27_2020	856.8	343.5	394.4	117.2	1.6	129.2
Share (%)	100.0%	40.1%	46.0%	13.7%	0.2%	
BE	32.9	21.6	10.0	1.4	0.0	5.2
BG	16.6	6.5	6.4	3.7	0.0	0.8
CZ	31.3	16.3	8.6	5.7	0.7	1.2
DK	14.5	2.0	11.0	1.1	0.3	3.1
DE	138.1	64.8	63.6	9.7	0.0	30.3
EE	2.4	0.6	1.4	0.3	0.0	0.2
IE	24.4	3.5	20.0	0.9	0.0	3.3
EL	24.9	12.4	7.8	4.7	0.0	3.9
ES	80.9	27.8	39.6	13.5	0.0	18.0
FR	132.9	40.7	74.8	17.4	0.0	18.0
HR	7.3	2.6	2.7	2.0	0.0	0.6
IT	83.2	34.7	30.2	18.3	0.0	11.7
CY	1.8	1.3	0.5		0.0	1.0
LV	4.0	0.9	2.6	0.5	0.0	0.5
LT	8.4	3.2	4.3	0.9	0.0	0.4
LU	1.4	0.7	0.7	0.1	0.0	1.8
HU	17.7	7.1	7.1	3.4	0.0	0.8
MT	0.5	0.4	0.1		0.0	0.5
NL	32.9	11.2	18.2	3.0	0.4	12.3
AT	24.3	15.6	7.2	1.4	0.0	2.6
PL	70.8	24.9	33.1	12.8	0.0	3.0
PT	18.9	7.4	6.8	4.6	0.1	4.2
RO	33.3	13.4	19.9		0.0	0.4
SI	3.3	1.2	1.7	0.4	0.0	0.1
SK	14.0	9.6	2.7	1.7	0.0	0.2
FI	14.3	5.8	6.6	1.8	0.1	2.4
SE	14.1	7.3	6.8		0.0	2.8
UK	90.0	28.4	40.8	20.7	0.0	36.6
EU28	946.8	371.9	435.3	138.0	1.6	165.9

4.1.1 Greenhouse Gas (GHG) Emissions

EU27_2020 – TOTAL AND ENERGY RELATED*

Million ton CO ₂ equiv.	GHG Emissions – National Total *	of which:								
		Energy	Energy Industries Manufacturing Industries & Construction	Transport	Commercial/ Institutional	Residential Agriculture/ Forestry/ Fisheries	Other Sectors Other Combustion & Fugitive Emission			
1990	4 912	3 734.4	1 439.0	736.5	672.7	175.0	449.2	91.7	18.4	151.9
1995	4 627	3 516.3	1 319.9	654.7	724.3	148.6	439.5	90.2	10.1	128.9
2000	4 543	3 455.3	1 306.1	596.7	798.6	147.8	405.9	85.6	6.9	107.7
2001	4 589	3 520.0	1 332.2	580.7	812.4	160.7	437.7	85.5	6.1	104.8
2002	4 573	3 518.7	1 355.5	572.3	821.2	155.2	421.0	83.4	6.0	104.1
2003	4 658	3 594.6	1 402.3	577.5	830.5	155.6	433.6	84.0	6.5	104.6
2004	4 669	3 588.3	1 406.2	560.2	848.9	160.0	423.6	84.6	7.7	97.2
2005	4 647	3 570.6	1 386.0	562.8	847.4	160.0	424.9	84.6	8.4	96.4
2006	4 646	3 571.7	1 392.6	554.0	855.5	168.7	417.6	81.6	7.2	94.3
2007	4 614	3 529.1	1 408.4	561.6	863.9	148.3	368.2	78.8	7.3	90.3
2008	4 520	3 459.1	1 339.5	539.7	844.7	162.1	397.3	79.6	6.9	89.3
2009	4 196	3 220.7	1 238.0	444.9	821.8	159.2	390.0	78.1	6.0	82.8
2010	4 288	3 303.4	1 257.6	477.9	818.1	165.9	415.4	80.0	5.7	82.7
2011	4 178	3 194.7	1 245.9	464.6	808.1	147.4	362.1	78.4	5.7	82.5
2012	4 098	3 133.5	1 227.4	446.5	778.3	149.5	368.8	76.3	5.0	81.8
2013	4 015	3 053.6	1 164.6	432.1	773.2	152.2	369.3	76.4	5.0	80.9
2014	3 880	2 908.4	1 104.9	419.9	779.2	134.1	311.7	75.2	4.9	78.4
2015	3 937	2 964.5	1 111.0	430.5	793.5	142.5	329.6	74.5	5.1	77.9
2016	3 942	2 965.7	1 086.1	432.4	811.8	141.2	338.5	75.1	5.1	75.6
2017	3 977	2 983.3	1 078.4	445.8	825.6	142.3	334.1	76.2	5.2	75.8
2018	3 893	2 907.1	1 015.2	449.6	828.0	138.8	321.7	76.5	4.6	72.6

GHGs EMISSIONS – EU27_2020 – ENERGY RELATED (MILLION ton CO₂ equiv.)



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

Source: European Environment Agency, June 2020

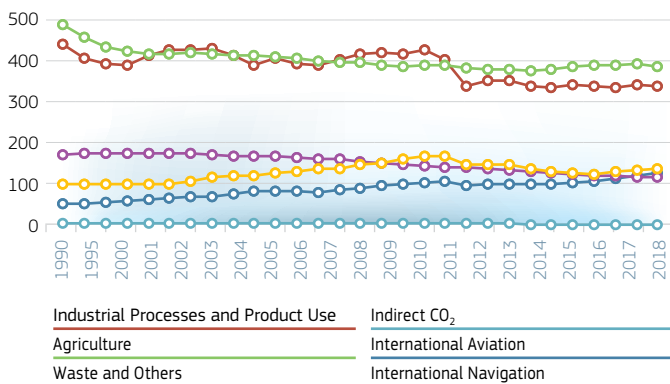
Methodology and Notes: [See Appendices](#)

4.1.1 Greenhouse Gas (GHG) Emissions

EU27_2020 – NOT ENERGY RELATED

Million ton CO ₂ equiv.	GHG Emissions – National Total *	of which:					International Aviation	International Navigation
		GHG Emissions other than from Energy	Industrial Processes & Product Use	Agriculture	Waste & Others	Indirect CO ₂		
1990	4912	1123.5	448.4	496.8	174.0	4.2	53.7	101.9
1995	4627	1044.6	436.3	426.4	178.3	3.5	65.7	102.6
2000	4543	1002.7	413.0	417.8	169.0	2.9	85.4	128.0
2001	4589	984.1	399.6	414.7	167.1	2.7	84.5	132.6
2002	4573	972.1	397.8	407.3	164.3	2.6	82.0	138.6
2003	4658	977.8	410.6	402.3	162.3	2.6	85.7	141.1
2004	4669	990.2	426.1	403.6	158.0	2.5	90.6	149.4
2005	4647	980.4	426.8	397.4	153.8	2.5	96.1	153.4
2006	4646	973.5	426.0	394.3	150.7	2.5	101.1	164.1
2007	4614	981.9	434.8	397.6	147.1	2.4	105.8	171.5
2008	4520	953.7	411.9	395.9	143.6	2.3	107.2	169.5
2009	4196	877.2	343.6	389.6	141.7	2.2	98.4	150.8
2010	4288	884.8	358.8	385.0	138.8	2.2	100.1	149.9
2011	4178	880.5	357.9	385.4	135.2	2.1	102.3	150.4
2012	4098	863.2	344.8	383.9	132.5	2.0	101.2	139.1
2013	4015	859.0	340.6	387.5	129.1	1.9	102.2	130.9
2014	3880	868.1	347.2	393.6	125.4	1.8	104.0	127.4
2015	3937	864.4	343.2	395.9	123.4	1.8	107.9	127.1
2016	3942	861.7	342.8	396.3	120.8	1.7	114.4	133.2
2017	3977	870.0	349.4	399.5	119.3	1.7	123.4	135.6
2018	3893	856.8	343.5	394.4	117.2	1.6	129.2	138.4

GHGs EMISSIONS – EU27_2020 – NOT ENERGY RELATED (MILLION ton CO₂ equiv.)



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

Source: European Environment Agency, June 2020

Methodology and Notes: [See Appendices](#)

4.1.2 CO₂ Emissions

EU27_2020 AND MEMBER STATES – TOTAL*

Million ton CO ₂	1990	2005	2010	2016	2017	2018
EU27_2020	3925.3	3843.9	3543.1	3218.3	3251.4	3184.0
Index 1990	100.0%	97.9%	90.3%	82.0%	82.8%	81.1%
BE	123.4	129.2	118.7	104.2	104.3	105.4
BG	77.4	51.2	48.4	46.0	48.2	44.3
CZ	166.6	127.7	119.4	108.3	107.4	106.3
DK	56.5	54.7	52.0	40.1	37.9	38.0
DE	1064.4	889.4	857.0	827.0	815.8	785.4
EE	37.0	17.1	18.9	17.5	18.8	17.9
IE	34.0	50.6	44.1	42.6	41.9	42.1
EL	85.9	116.5	99.9	74.4	78.3	75.7
ES	235.9	381.0	296.0	276.5	291.6	287.5
FR	409.3	442.2	405.0	357.7	363.0	349.4
HR	23.8	23.6	21.3	18.5	19.2	18.3
IT	442.3	508.5	442.5	366.9	362.6	359.7
CY	5.4	8.9	8.9	8.2	8.5	8.4
LV	19.8	8.0	8.9	7.6	7.7	8.3
LT	36.2	14.2	14.1	13.6	13.9	14.0
LU	12.2	13.4	12.5	10.6	10.9	11.4
HU	74.0	61.4	52.8	48.0	50.4	50.5
MT	2.6	2.9	2.9	1.8	2.0	2.0
NL	167.9	188.8	192.8	178.4	176.9	172.8
AT	63.0	81.2	74.1	69.4	71.9	69.2
PL	377.2	324.1	336.0	326.0	339.8	340.7
PT	46.7	72.0	55.8	54.0	58.7	55.7
RO	170.1	103.1	84.8	76.7	79.1	77.4
SI	15.1	17.0	16.4	14.5	14.3	14.6
SK	61.7	43.1	38.7	35.1	36.3	36.3
FI	58.1	58.4	65.8	49.2	46.8	48.3
SE	58.7	55.8	55.2	45.5	45.1	44.6
UK	613.7	602.2	541.2	430.2	421.6	414.0
EU28	4539.0	4446.1	4084.3	3648.5	3673.0	3598.0

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

Source: European Environment Agency, June 2020

Methodology and Notes: [See Appendices](#)

4.1.2 CO₂ Emissions

EU27_2020 AND MEMBER STATES – ENERGY RELATED

Million ton CO ₂	2018								
	Energy	of which:							
		Energy Industries	Manufacturing Industries & Construction	Transport	Commercial/ Institutional	Residential	Agriculture/ Forestry/ Fisheries	Other Sectors	Other Combustion & Fugitive Emissions
EU27_2020	2806.5	1004.9	443.6	818.0	137.4	305.2	71.0	4.5	21.8
Share (%)	100.0%	35.8%	15.8%	29.1%	4.9%	10.9%	2.5%	0.2%	0.8%
BE	83.8	19.8	13.6	26.0	5.7	16.3	2.2	0.1	0.1
BG	39.4	23.4	4.2	9.6	0.3	0.7	0.5	0.0	0.7
CZ	92.0	50.8	9.9	18.8	2.8	8.1	1.2	0.3	0.1
DK	32.9	11.3	3.9	13.3	0.7	1.9	1.5	0.2	0.2
DE	704.1	290.1	129.0	161.7	32.0	82.7	5.9	0.7	2.0
EE	17.3	13.7	0.7	2.4	0.1	0.2	0.2	0.0	0.0
IE	36.0	10.4	4.7	12.1	2.1	6.0	0.6	0.0	0.0
EL	65.6	38.1	5.0	17.1	0.7	4.0	0.5	0.1	0.0
ES	248.8	71.5	45.3	89.2	12.5	14.7	11.5	0.4	3.8
FR	305.5	41.1	50.7	130.5	28.1	41.7	10.4	0.0	3.0
HR	15.7	3.9	2.4	6.3	0.6	1.5	0.6	0.0	0.3
IT	332.3	95.3	52.9	103.1	24.8	46.2	7.4	0.3	2.3
CY	6.4	3.3	0.6	2.1	0.1	0.3	0.1	0.0	0.0
LV	7.2	1.9	0.7	3.3	0.4	0.5	0.4	0.0	0.0
LT	11.2	2.4	1.2	6.0	0.3	0.8	0.2	0.0	0.3
LU	9.0	0.2	1.2	6.0	0.6	1.0	0.0	0.0	0.0
HU	44.0	13.0	5.3	13.8	2.9	7.4	1.5	0.0	0.1
MT	1.5	0.7	0.0	0.7	0.1	0.0	0.0	0.0	0.0
NL	152.6	59.8	27.9	31.2	7.5	16.4	8.7	0.2	1.1
AT	53.5	10.0	10.8	24.1	1.3	6.3	0.8	0.1	0.1
PL	316.5	162.5	31.4	64.5	6.9	35.1	11.1	0.0	4.8
PT	47.5	17.7	7.4	17.1	1.2	1.8	1.2	0.1	1.1
RO	66.0	24.2	12.1	18.2	2.2	6.8	1.4	0.6	0.6
SI	13.6	4.8	1.8	5.7	0.3	0.6	0.2	0.0	0.1
SK	27.3	7.4	7.6	7.6	1.4	2.8	0.3	0.1	0.0
FI	41.2	18.4	6.7	11.6	1.2	1.1	1.3	0.9	0.1
SE	35.5	9.1	6.7	16.3	0.7	0.5	1.2	0.2	0.8
UK	362.6	93.8	50.7	120.7	19.7	66.4	5.0	1.6	4.6
EU28	3169.1	1098.7	494.3	938.8	157.2	371.6	76.0	6.1	26.4

4.1.2 CO₂ Emissions

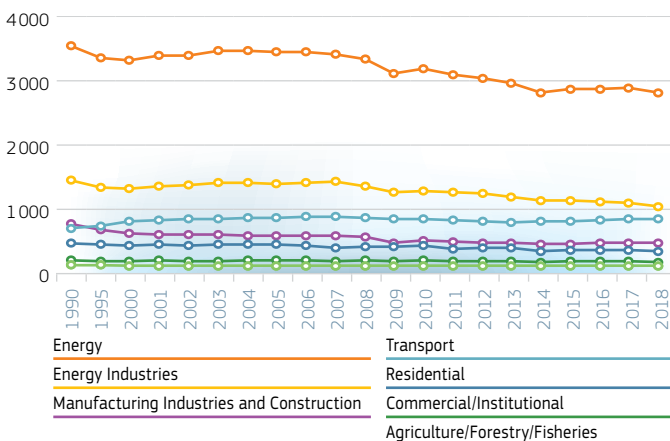
EU27_2020 AND MEMBER STATES – NOT ENERGY RELATED

Million ton CO ₂	2018					
	CO ₂ Emissions other than from Energy	of which:				International Aviation
		Industrial Processes & Product Use	Agriculture	Waste & Others	Indirect CO ₂	
EU27_2020	249.4	235.7	9.3	2.9	1.6	128.1
Share (%)	100.0%	94.5%	3.7%	1.2%	0.6%	
BE	16.4	16.0	0.2	0.3	0.0	5.1
BG	4.2	4.1	0.0	0.0	0.0	0.8
CZ	13.1	12.0	0.3	0.1	0.7	1.2
DK	2.0	1.5	0.2	0.0	0.3	3.0
DE	51.3	48.3	2.9	0.0	0.0	30.1
EE	0.4	0.4	0.0	0.0	0.0	0.2
IE	2.8	2.3	0.5	0.0	0.0	3.3
EL	6.2	6.2	0.0	0.0	0.0	3.9
ES	20.8	20.3	0.5	0.0	0.0	17.8
FR	26.0	22.6	2.0	1.4	0.0	17.8
HR	2.0	2.0	0.1	0.0	0.0	0.6
IT	15.8	15.3	0.4	0.1	0.0	11.6
CY	0.9	0.9	0.0		0.0	1.0
LV	0.7	0.6	0.0	0.0	0.0	0.5
LT	2.4	2.4	0.0	0.0	0.0	0.4
LU	0.6	0.6	0.0	0.0	0.0	1.8
HU	5.7	5.4	0.2	0.0	0.0	0.8
MT	0.0	0.0	0.0		0.0	0.5
NL	8.0	7.5	0.0	0.0	0.4	12.2
AT	13.2	13.1	0.1	0.0	0.0	2.5
PL	21.2	19.7	0.9	0.6	0.0	3.0
PT	4.1	3.9	0.0	0.0	0.1	4.1
RO	11.0	10.8	0.1		0.0	0.4
SI	0.9	0.8	0.0	0.0	0.0	0.1
SK	8.8	8.7	0.1	0.0	0.0	0.2
FI	4.7	4.4	0.2	0.0	0.1	2.4
SE	6.1	6.0	0.1		0.0	2.8
UK	15.1	13.6	1.3	0.2	0.0	36.3
EU28	264.6	249.3	10.6	3.1	1.6	164.4

4.1.2 CO₂ Emissions

EU27_2020 – TOTAL AND ENERGY RELATED*

Million ton CO ₂	CO ₂ Emissions – National Total*	of which:								
		Energy	Energy Industries Manufacturing Industries & Construction	Transport	Commercial/ Institutional	Residential	Agriculture/ Forestry/Fisheries	Other Sectors	Other Combustion and Fugitive Emissions	
1990	3925	3549.8	1431.0	730.3	660.3	172.5	427.2	87.2	17.9	23.3
1995	3717	3355.1	1312.2	649.1	710.1	147.3	419.9	85.2	9.9	21.4
2000	3700	3318.1	1298.3	590.8	784.9	146.6	389.2	80.7	6.8	20.9
2001	3756	3384.9	1324.1	574.7	799.3	159.5	420.9	80.7	6.0	19.8
2002	3755	3386.8	1347.2	566.2	809.0	154.0	405.5	78.6	5.9	20.5
2003	3842	3462.0	1393.3	571.1	819.1	154.4	417.0	79.2	6.4	21.5
2004	3858	3462.1	1397.0	553.6	837.7	158.7	407.7	79.7	7.5	20.2
2005	3844	3445.5	1376.8	556.1	836.9	158.7	408.2	79.7	8.2	21.0
2006	3857	3450.5	1383.0	547.7	845.1	167.4	400.6	76.7	7.0	22.9
2007	3823	3408.5	1398.3	555.1	853.9	147.0	350.8	73.7	7.1	22.7
2008	3739	3340.3	1329.3	533.4	834.9	160.6	378.7	74.2	6.7	22.5
2009	3440	3108.3	1228.0	439.5	812.7	157.7	371.4	72.6	5.8	20.6
2010	3543	3189.8	1247.3	472.2	809.0	164.4	395.6	74.5	5.6	21.2
2011	3440	3084.3	1235.5	458.9	799.0	145.9	344.9	72.9	5.6	21.7
2012	3363	3022.3	1216.5	440.9	769.4	147.9	350.1	71.0	4.9	21.6
2013	3283	2945.1	1154.0	426.5	764.3	150.7	350.6	71.1	4.9	23.0
2014	3149	2804.6	1094.6	414.5	770.1	132.8	295.2	70.0	4.8	22.4
2015	3207	2859.5	1100.4	424.9	784.2	141.2	312.5	69.3	4.9	22.1
2016	3218	2862.3	1075.6	427.0	802.2	139.9	321.4	69.8	5.0	21.5
2017	3251	2879.2	1067.8	440.0	815.7	140.9	316.8	70.7	5.1	22.1
2018	3184	2806.5	1004.9	443.6	818.0	137.4	305.2	71.0	4.5	21.8

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

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

Source: European Environment Agency, June 2020

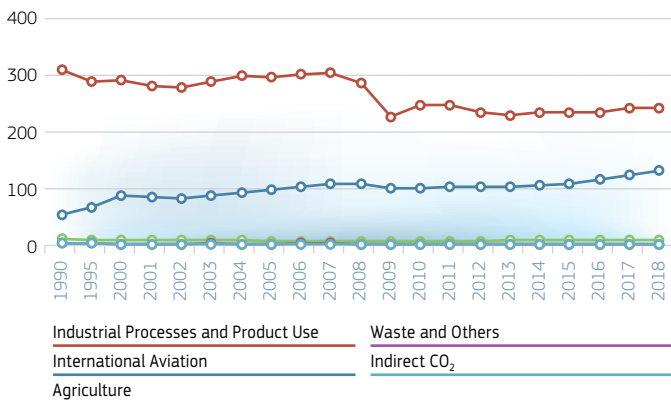
Methodology and Notes: [See Appendices](#)

4.1.2 CO₂ Emissions

EU27_2020 – NOT ENERGY RELATED

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 & Product Use	Agriculture	Waste & Others			
1990	3 925.3	322.3	300.9	13.4	3.8	4.2	53.2	100.6
1995	3 717.1	296.9	280.3	9.5	3.6	3.5	65.1	101.2
2000	3 700.2	297.5	282.3	9.4	2.8	2.9	84.6	126.5
2001	3 755.6	286.9	272.1	9.2	2.9	2.7	83.8	131.1
2002	3 754.8	286.7	271.8	9.1	3.2	2.6	81.3	137.0
2003	3 842.4	295.5	280.5	8.9	3.5	2.6	85.0	139.5
2004	3 857.8	305.8	291.5	8.6	3.2	2.5	89.8	147.7
2005	3 843.9	303.1	288.9	8.3	3.4	2.5	95.2	151.7
2006	3 857.3	306.6	292.7	8.0	3.5	2.5	100.2	162.3
2007	3 823.4	310.0	296.1	8.1	3.4	2.4	104.9	169.7
2008	3 739.2	292.7	278.9	8.0	3.4	2.3	106.3	167.7
2009	3 439.9	234.0	220.4	8.1	3.3	2.2	97.5	149.2
2010	3 543.1	254.1	240.7	7.8	3.4	2.2	99.2	148.2
2011	3 439.7	254.0	240.5	8.1	3.2	2.1	101.4	148.8
2012	3 362.9	240.3	226.8	8.3	3.3	2.0	100.3	137.6
2013	3 282.8	236.4	222.5	8.9	3.1	1.9	101.3	129.5
2014	3 149.2	241.5	227.6	9.0	3.1	1.8	103.1	126.0
2015	3 207.4	240.9	227.2	9.1	2.8	1.8	106.9	125.7
2016	3 218.3	242.6	228.6	9.4	2.9	1.7	113.4	131.8
2017	3 251.4	249.8	235.8	9.1	3.1	1.7	122.3	134.1
2018	3 184.0	249.4	235.7	9.3	2.9	1.6	128.1	137.0

CO₂ EMISSIONS – EU27_2020 – NOT ENERGY RELATED (MILLION ton CO₂)



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

Source: European Environment Agency, June 2020

Methodology and Notes: [See Appendices](#)

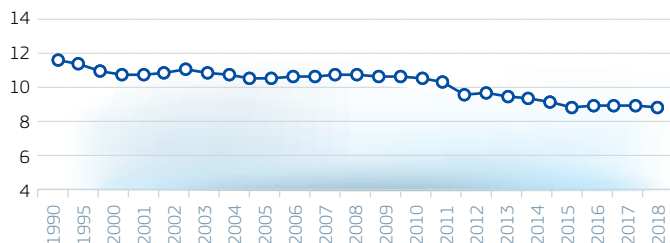
4.2 Main Emissions Indicators

4.2.1 Greenhouse Gas (GHG) Emissions per Capita

t CO ₂ eq./cap	1990	2005	2010	2016	2017	2018
EU27_2020	11.7	10.7	9.7	8.9	8.9	8.7
Index 1990	100.0%	91.0%	82.8%	75.4%	76.0%	74.3%
BE	15.0	14.3	12.8	10.8	10.8	10.8
BG	11.7	8.4	8.3	8.4	8.8	8.3
CZ	19.3	14.7	13.6	12.5	12.4	12.2
DK	14.1	12.8	11.9	9.4	8.9	8.9
DE	20.1	12.3	11.8	11.4	11.2	10.7
EE	25.7	14.1	15.8	15.0	16.0	15.3
IE	16.1	17.6	14.0	13.6	13.4	13.3
EL	10.5	12.7	10.9	8.8	9.2	8.9
ES	7.6	10.5	8.0	7.4	7.7	7.5
FR	9.6	9.1	8.2	7.1	7.2	6.9
HR	6.8	7.0	6.6	5.9	6.1	5.9
IT	9.2	10.3	8.8	7.4	7.3	7.3
CY	11.2	14.0	12.6	11.4	11.7	11.4
LV	10.0	5.2	6.0	5.9	6.0	6.3
LT	13.1	6.8	6.7	7.2	7.4	7.4
LU	34.6	31.0	26.8	20.0	20.2	20.5
HU	9.1	7.5	6.5	6.3	6.6	6.6
MT	7.9	8.0	7.9	5.2	5.6	5.6
NL	15.2	13.8	13.5	12.2	12.0	11.7
AT	10.4	11.5	10.4	9.4	9.6	9.2
PL	12.5	10.6	10.9	10.6	11.0	11.0
PT	6.0	8.4	6.8	6.7	7.2	7.0
RO	10.7	7.1	6.1	5.8	6.0	6.0
SI	9.3	10.3	9.6	8.6	8.4	8.5
SK	13.9	9.6	8.6	7.8	8.0	8.0
FI	14.5	13.6	14.5	10.9	10.4	10.7
SE	8.5	7.6	7.1	5.7	5.6	5.4
UK	14.2	12.1	10.3	7.9	7.7	7.5
EU28	12.0	10.9	9.8	8.7	8.8	8.6

GHG PER CAPITA – EU27_2020 – t CO₂ eq./cap

EU27_2020

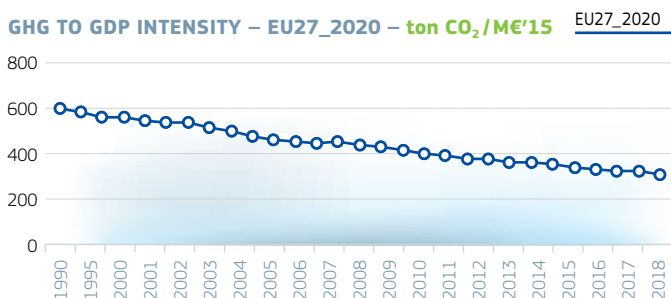


Source: European Environment Agency, June 2020

Methodology and Notes: [See Appendices](#)

4.2.2 Greenhouse Gas (GHG) Emissions to GDP Intensity

ton CO ₂ /M€'15	1990	2005	2010	2016	2017	2018
EU27_2020	592.4	420.4	369.2	316.2	310.6	297.7
Index 1990	100.0%	71.0%	62.3%	53.4%	52.4%	50.2%
BE	565.4	412.9	354.6	289.8	284.8	282.5
BG	1 393.2	1 813.4	1 463.9	1 265.2	1 271.6	1 158.2
CZ	1 865.8	1 091.3	915.0	763.9	726.5	698.5
DK	398.3	273.4	257.6	189.8	178.3	174.2
DE	593.0	387.8	347.8	302.1	291.0	275.8
EE	1 881.4	1 068.3	1 197.0	927.3	935.7	854.2
IE	775.9	388.7	335.1	235.2	217.4	201.5
EL	739.0	630.9	558.6	536.7	551.6	525.0
ES	442.6	442.3	344.1	308.7	312.8	301.2
FR	372.0	284.6	252.7	214.1	211.6	200.2
HR	1 341.0	688.6	629.8	534.0	535.2	498.1
IT	368.6	342.5	305.2	266.3	259.6	255.6
CY	729.4	601.1	533.6	508.5	502.6	477.0
LV	1 285.5	551.8	616.7	465.2	452.2	453.4
LT	1 738.1	783.5	678.6	541.1	524.7	499.3
LU	614.3	356.8	297.5	212.2	215.3	216.3
HU	975.5	744.1	646.9	539.3	538.9	509.6
MT	747.8	490.0	450.2	227.8	238.5	228.6
NL	539.9	363.6	337.0	293.9	283.1	269.3
AT	366.0	308.4	265.4	232.8	234.0	221.0
PL	2 714.0	1 380.3	1 117.9	907.2	896.5	849.9
PT	463.8	483.6	382.0	378.6	392.6	367.5
RO	2 410.2	1 260.3	900.5	685.5	655.2	620.1
SI	761.1	591.5	515.7	441.0	415.2	402.6
SK	1 543.5	929.6	663.1	521.4	520.0	498.6
FI	513.9	354.2	367.5	276.7	256.9	258.3
SE	273.9	184.1	162.9	120.1	116.5	112.1
UK	510.7	311.7	268.9	191.8	185.1	179.4
EU28	579.3	401.5	352.1	294.1	288.4	276.9



Source: European Environment Agency, June 2020
 Methodology and Notes: [See Appendices](#)

Country Profiles



Country Profiles



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Sources: ESTAT – database – May 2020; EEA – UNFCCC database – June 2020;
ECFIN – AMECO database – May 2020; ESTAT – SHARES – March 2020;
ESTAT – CHP Survey, data 2017 – July 2020; ESTAT – Market Survey – June 2020

5.1 European Union - 27 (from 2020)

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	677.9	704.9	697.8	660.3	643.2	636.5
Solid Fossil Fuels	191.0	177.8	147.3	134.3	123.1	116.7
of which Hard Coal	100.7	87.2	63.4	52.6	44.5	41.4
of which Brown Coal	90.2	90.6	83.8	81.7	78.6	75.4
Oil and Petroleum Products	45.6	46.7	33.9	29.4	26.2	25.6
of which Crude Oil	42.4	42.7	30.8	26.3	22.8	22.0
Natural Gas	112.2	111.1	109.5	72.4	67.1	59.2
Nuclear	222.1	236.8	220.6	204.6	195.6	195.7
Renewables and Biofuels	96.0	118.4	168.4	200.7	211.3	217.3
Wastes, Non-Renewable	5.9	7.2	10.5	12.2	13.1	13.3
Net Imports	866.0	954.6	895.4	833.1	881.7	885.8
Solid Fossil Fuels	83.3	97.9	93.7	95.7	94.7	91.7
of which Hard Coal	79.0	94.8	92.0	95.7	95.6	92.7
Oil and Petroleum Products	578.5	606.1	550.2	513.7	517.7	517.6
of which Crude Oil and NGL	542.3	569.8	517.3	519.9	530.7	521.8
Natural gas	202.8	248.1	245.8	220.5	265.2	270.2
Renewables and Biofuels	0.3	1.7	5.1	3.4	4.0	5.0
Electricity	0.8	0.6	0.4	-0.6	-0.4	0.8
Gross Inland Consumption	1 498.2	1 603.5	1 559.6	1 449.0	1 491.7	1 479.3
Solid Fossil Fuels	279.0	274.3	245.1	233.8	218.9	210.3
of which Hard Coal	182.7	180.5	159.4	152.1	141.3	135.8
of which Brown Coal	91.9	92.5	84.9	82.6	79.2	76.4
Oil and Petroleum Products	579.8	598.6	538.8	491.7	510.2	504.1
of which Crude and NGL	586.0	612.7	548.2	541.9	554.9	545.0
Natural Gas	308.6	359.7	362.8	296.0	330.7	324.6
Nuclear	222.1	236.8	220.6	204.6	195.6	195.7
Renewables and Biofuels	96.4	120.1	173.6	204.1	215.7	222.1
Electricity	0.8	0.6	0.4	-0.6	-0.4	0.8
Waste, Non-Renewable	5.9	7.2	10.6	12.5	13.5	13.7
Available for Final Consumption	1 023.0	1 092.0	1 073.3	993.9	1 039.3	1 035.5
Final Non-Energy Consumption	100.8	104.9	98.3	88.4	94.8	91.1
Final Energy Consumption	926.6	986.6	973.0	909.1	940.4	939.7
by Fuel/Product						
Solid Fossil Fuels	33.4	28.5	27.2	23.4	23.8	22.5
Oil and Petroleum Products	397.4	405.2	366.2	338.9	346.0	345.1
Natural Gas	205.1	222.8	217.7	191.6	200.7	200.8
Renewables and Biofuels	48.7	60.7	85.8	89.8	97.7	98.9
Solid Biofuels and Renewable Waste	46.6	55.1	67.8	65.8	67.4	66.3
Solar Thermal	0.5	0.7	1.5	2.1	2.2	2.4
Geothermal	0.4	0.4	0.4	0.5	0.6	0.6
Liquid Biofuels	0.7	3.3	12.4	13.3	14.4	16.0
Biogases	0.3	0.5	1.4	2.3	2.6	2.5
Waste, Non-Renewable	1.0	1.3	2.6	3.6	3.9	4.4
Electricity	189.0	209.3	215.7	210.9	215.7	216.0
Heat	42.9	51.2	51.6	45.1	47.1	46.2
by Sector						
Industry	271.7	275.2	244.1	233.1	239.2	242.2
Transport	262.9	281.6	280.1	272.7	285.0	286.8
Residential	248.2	266.6	278.5	243.9	250.7	245.2
Services	104.9	127.5	139.8	130.0	135.6	133.6
Agriculture and Fishing	28.4	28.5	26.9	25.7	26.5	28.6
Others	10.4	7.2	3.7	3.7	3.4	3.4

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	613.2	675.7	790.3	889.8	907.4	929.5
Combustible Fuels	340.1	370.3	414.8	412.2	398.3	404.2
Nuclear	124.9	123.1	120.9	112.5	111.5	111.2
Hydro	134.7	139.3	143.1	148.3	150.5	150.8
Wind	12.3	38.8	79.0	127.2	148.9	157.3
Solar	0.2	2.3	30.6	87.7	96.2	103.9
Geothermal	0.6	0.7	0.8	0.8	0.8	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	2 917.7	2 980.3	2 902.3	2 955.9	2 941.5
Solid Fossil Fuels, Peat & Products, Oil Shale	813.9	825.7	721.6	718.8	654.0	610.9
Oil and Petroleum Products	172.9	137.4	82.1	63.4	58.7	54.8
Natural Gas	362.7	549.7	622.6	430.1	559.3	523.2
Nuclear	859.9	916.1	854.5	786.7	759.4	761.9
Renewables and Biofuels	435.9	477.0	681.9	883.8	903.6	968.8
Wastes non-RES	11.6	11.8	17.6	19.5	21.0	21.8
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			101.5	113.8	117.5	
CHP Electricity Generation (TWh)			370.9	343.5	350.1	
CHP in Total Electricity Generation (%)			12.5	11.9	11.8	
CHP Heat Production (PJ)			2 882.9	2 667.5	2 741.4	
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	256 069	270 605	260 574	251 956	262 709	262 637
of which LPG	3 661	4 691	5 200	5 900	5 998	5 967
of which Motor Gasoline	109 605	94 410	75 784	64 461	65 155	65 257
of which Gas/Diesel Oil	135 720	164 215	172 501	175 128	184 060	183 610
Final Consumption Biofuels	711	3 135	11 953	12 828	13 850	15 362
Pure and Blended Biogasoline	59	543	2 480	2 327	2 416	2 599
Pure and Blended Biodiesel	638	2 446	9 420	10 497	11 432	12 762
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	1 397.1	1 497.6	1 458.4	1 353.7	1 385.0	1 375.7
Final Energy Consumption 2020-2030 (Mtoe)	980.1	1 040.8	1 024.0	957.7	989.1	989.4
Primary Energy Intensity 2020-2030 (toe/M€'15)	138	135	126	111	108	105
Energy Intensity GAE/GDP2010 (toe/M€'15)	152	149	138	122	120	116
Energy per Capita – GIC/pop (kgoe/cap)	3 497	3 691	3 539	3 266	3 348	3 316
Final Electricity per Capita (KWh/cap)	5 130	5 603	5 693	5 528	5 632	5 631
Import Dependency (%)	56.3	57.8	55.7	56.0	57.5	58.2
of Solid Fossil Fuels	29.8	35.7	38.2	40.9	43.3	43.6
of Hard Coal	43.2	52.5	57.7	62.9	67.7	68.3
of Oil and Petroleum Products	93.3	93.9	94.0	96.7	93.8	94.6
of Crude and NGL	92.5	93.0	94.4	95.9	95.6	95.7
of Natural Gas	65.7	69.0	67.8	74.5	80.2	83.2
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		10.24	14.43	17.85	18.47	18.88
RE-T – Renewable Energy in Transport		2.01	5.46	6.75	7.48	8.26
RES-E – Renewable Electricity Generation		16.40	21.31	29.65	31.10	32.20
RES-H&C – Renewable Heating & Cooling		12.45	17.03	20.38	20.96	21.12
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	3 700.2	3 843.9	3 543.1	3 207.4	3 251.4	3 184.0
GHG Emissions – National total*	4 543.4	4 647.1	4 288.3	3 936.7	3 976.7	3 893.1
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	92.5	94.6	87.3	80.2	81.0	79.3
Total GHG per Capita (t CO ₂ eq/cap)	10.6	10.7	9.7	8.9	8.9	8.7

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

5.2 European Union - 28 (until 2020)

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	950.2	910.4	844.2	776.0	761.1	757.8
Solid Fossil Fuels	209.6	189.9	158.2	139.4	125.0	118.3
of which Hard Coal	119.4	99.3	74.3	57.7	46.3	42.9
of which Brown Coal	90.2	90.6	83.8	81.7	78.6	75.4
Oil and Petroleum Products	177.3	135.5	99.3	76.4	74.6	78.4
of which Crude Oil	173.9	131.2	96.3	73.4	71.3	74.9
Natural Gas	209.8	190.5	159.3	106.6	103.1	94.0
Nuclear	244.0	257.8	234.6	220.1	210.7	209.8
Renewables and Biofuels	98.3	121.9	174.2	213.5	226.6	233.9
Wastes, Non-Renewable	6.1	7.8	11.0	13.1	14.3	14.6
Net Imports	825.6	986.2	958.0	906.0	948.6	952.3
Solid Fossil Fuels	97.7	125.2	109.8	110.3	100.6	98.5
of which Hard Coal	93.4	121.5	108.3	109.6	100.8	98.7
Oil and Petroleum Products	531.8	603.4	561.1	540.7	544.7	538.9
of which Crude Oil and NGL	499.3	569.6	526.9	533.9	540.8	525.2
Natural gas	193.5	254.1	279.7	247.0	295.4	303.6
Renewables and Biofuels	0.3	2.1	6.6	6.3	6.6	8.4
Electricity	2.0	1.3	0.7	1.2	0.9	2.4
Gross Inland Consumption	1 731.4	1 838.4	1 772.7	1 640.0	1 677.6	1 664.4
Solid Fossil Fuels	315.5	312.0	277.0	258.5	228.8	218.4
of which Hard Coal	219.3	217.8	191.7	176.0	150.5	143.3
of which Brown Coal	91.9	92.5	84.9	82.6	79.2	76.4
Oil and Petroleum Products	663.6	683.9	613.1	562.7	583.5	576.4
of which Crude and NGL	675.8	700.8	623.5	602.9	613.9	601.5
Natural Gas	396.0	445.1	447.6	357.2	397.8	392.3
Nuclear	244.0	257.8	234.6	220.1	210.7	209.8
Renewables and Biofuels	98.7	124.0	181.0	219.8	233.6	242.1
Electricity	2.0	1.3	0.7	1.2	0.9	2.4
Waste, Non-Renewable	6.1	7.8	11.0	13.5	14.7	15.0
Available for Final Consumption	1 173.2	1 240.7	1 212.5	1 122.2	1 167.9	1 165.2
Final Non-Energy Consumption	112.1	116.2	106.2	95.7	103.0	99.1
Final Energy Consumption	1 066.2	1 124.3	1 103.1	1 029.1	1 061.2	1 061.6
by Fuel/Product						
Solid Fossil Fuels	37.2	31.0	29.6	25.7	25.6	24.2
Oil and Petroleum Products	450.2	458.6	414.8	386.7	395.0	393.1
Natural Gas	256.5	272.6	264.2	229.3	238.6	240.0
Renewables and Biofuels	49.3	61.3	88.7	94.5	102.6	104.6
Solid Biofuels and Renewable Waste	47.2	55.5	69.3	68.4	70.2	69.4
Solar Thermal	0.5	0.8	1.5	2.1	2.3	2.4
Geothermal	0.4	0.4	0.4	0.5	0.6	0.6
Liquid Biofuels	0.7	3.3	13.6	14.2	15.3	17.3
Biogases	0.4	0.6	1.4	2.4	2.7	2.7
Waste, Non-Renewable	1.0	1.4	2.7	3.7	4.0	4.5
Electricity	217.3	239.3	244.0	237.0	241.5	241.7
Heat	45.3	52.5	52.9	46.3	48.3	47.5
by Sector						
Industry	305.6	305.7	269.7	256.1	260.8	263.6
Transport	305.1	324.9	320.5	313.6	326.9	328.6
Residential	291.3	310.9	324.0	281.1	287.5	283.2
Services	121.7	144.2	156.4	146.9	153.4	151.6
Agriculture and Fishing	29.6	29.5	27.9	26.6	28.0	30.1
Others	12.8	9.2	4.7	4.7	4.6	4.6

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	691.6	758.0	884.0	986.2	1 016.7	1 037.7
Combustible Fuels	401.3	435.0	487.7	470.6	461.1	463.5
Nuclear	137.3	135.0	131.7	122.0	120.9	120.6
Hydro	139.0	143.6	147.5	153.0	155.3	155.6
Wind	12.7	40.3	84.4	141.5	168.5	179.1
Solar	0.2	2.3	30.7	97.3	109.0	117.0
Geothermal	0.6	0.7	0.8	0.8	0.8	0.9
Tide, Wave and Ocean	0.2	0.2	0.2	0.2	0.2	0.2
Gross Electricity Generation, by Fuel (TWh)	3 034.0	3 316.0	3 362.3	3 240.4	3 292.0	3 272.2
Solid Fossil Fuels, Peat & Products, Oil Shale	933.9	960.3	829.2	794.7	676.5	627.7
Oil and Petroleum Products	181.3	142.8	86.9	65.4	60.3	55.9
Natural Gas	513.1	704.0	799.4	531.1	696.8	655.5
Nuclear	945.0	997.7	916.6	857.0	829.7	827.0
Renewables and Biofuels	448.6	496.9	711.2	969.1	1 003.5	1 079.4
Wastes non-RES	12.1	14.4	19.0	23.1	25.2	26.7
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			107.6	119.7	122.0	
CHP Electricity Generation (TWh)			394.6	362.9	371.7	
CHP in Total Electricity Generation (%)			11.8	11.2	11.3	
CHP Heat Production (PJ)			3 038.4	2 791.7	2 881.2	
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	297 537	313 444	299 498	291 514	303 291	302 725
of which LPG	3 685	4 826	5 316	5 990	6 072	6 032
of which Motor Gasoline	132 463	114 385	91 382	77 387	77 759	77 627
of which Gas/Diesel Oil	153 516	185 762	194 893	200 838	211 068	210 361
Final Consumption Biofuels	711	3 204	13 103	13 761	14 784	16 649
Pure and Blended Biogasoline	59	586	2 801	2 732	2 799	2 986
Pure and Blended Biodiesel	638	2 472	10 250	11 025	11 983	13 662
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	1 619.0	1 721.0	1 663.5	1 536.2	1 561.7	1 551.8
Final Energy Consumption 2020-2030 (Mtoe)	1 133.4	1 193.8	1 167.1	1 090.3	1 122.6	1 123.9
Primary Energy Intensity 2020-2030 (toe/M€'15)	133	129	119	103	100	98
Energy Intensity GAE/GDP2010 (toe/M€'15)	146	141	130	113	111	108
Energy per Capita – GIC/pop (kgoe/cap)	3 553	3 717	3 523	3 225	3 280	3 248
Final Electricity per Capita (KWh/cap)	5 187	5 626	5 639	5 420	5 492	5 487
Import Dependency (%)	46.5	52.2	52.6	53.9	55.1	55.7
of Solid Fossil Fuels	31.0	40.1	39.6	42.7	43.9	45.1
of Hard Coal	42.6	55.8	56.5	62.3	66.9	68.9
of Oil and Petroleum Products	75.3	82.3	84.7	89.4	86.8	86.6
of Crude and NGL	73.9	81.3	84.5	88.5	88.1	87.3
of Natural Gas	48.9	57.1	62.5	69.1	74.3	77.4
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		9.11	13.16	16.73	17.47	17.98
RE-T – Renewable Energy in Transport		1.80	5.19	6.45	7.13	8.03
RES-E – Renewable Electricity Generation		14.80	19.66	28.79	30.70	32.06
RES-H&C – Renewable Heating & Cooling		11.13	15.49	18.85	19.50	19.67
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	4 295.1	4 446.1	4 084.3	3 660.6	3 673.0	3 598.0
GHG Emissions – National total*	5 286.0	5 373.7	4 930.6	4 478.5	4 484.4	4 391.8
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	92.4	93.9	86.2	78.3	78.4	76.8
Total GHG per Capita (t CO ₂ eq/cap)	10.8	10.9	9.8	8.8	8.8	8.6

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

5.3 Belgium

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	13.6	13.8	15.7	10.9	15.3	11.9
Solid Fossil Fuels	0.2	0.1	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	0.2	0.1	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	12.5	6.8	11.0	7.5
Renewables and Biofuels	0.5	0.9	2.3	3.0	3.2	3.4
Wastes, Non-Renewable	0.4	0.5	0.7	0.7	0.6	0.7
Net Imports	50.6	53.4	53.6	49.9	48.0	52.9
Solid Fossil Fuels	7.3	5.2	3.7	3.2	2.9	3.2
of which Hard Coal	6.6	5.0	3.7	2.7	2.4	2.7
Oil and Petroleum Products	29.6	32.5	32.5	30.4	29.4	32.4
of which Crude Oil and NGL	34.2	32.0	33.5	32.4	34.4	33.3
Natural gas	13.3	14.8	16.8	13.9	14.2	15.0
Renewables and Biofuels	0.1	0.3	0.6	0.7	0.9	0.9
Electricity	0.4	0.5	0.0	1.8	0.5	1.5
Gross Inland Consumption	59.4	59.2	61.3	54.0	57.0	55.0
Solid Fossil Fuels	8.0	5.2	3.8	3.4	3.1	3.1
of which Hard Coal	7.0	4.9	3.7	2.8	2.5	2.5
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	23.4	22.8	22.9
of which Crude and NGL	34.1	32.1	33.5	32.4	34.4	33.3
Natural Gas	13.4	14.7	16.7	13.9	14.5	14.9
Nuclear	12.4	12.3	12.5	6.8	11.0	7.5
Renewables and Biofuels	0.6	1.2	2.9	3.7	4.1	4.2
Electricity	0.4	0.5	0.0	1.8	0.5	1.5
Waste, Non-Renewable	0.4	0.5	0.7	0.7	0.6	0.7
Available for Final Consumption	40.8	41.6	42.7	40.9	40.6	40.9
Final Non-Energy Consumption	7.0	7.5	7.0	7.6	7.5	7.8
Final Energy Consumption	33.6	34.0	35.0	33.1	32.9	33.1
by Fuel/Product						
Solid Fossil Fuels	0.9	0.6	0.5	0.5	0.5	0.5
Oil and Petroleum Products	15.1	15.3	14.8	14.1	13.3	13.3
Natural Gas	9.3	9.4	10.0	8.9	9.4	9.5
Renewables and Biofuels	0.4	0.6	1.5	1.7	1.9	2.0
Solid Biofuels and Renewable Waste	0.4	0.6	1.1	1.2	1.3	1.3
Solar Thermal	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid Biofuels	0.0	0.0	0.4	0.3	0.5	0.5
Biogases	0.0	0.0	0.0	0.1	0.1	0.1
Waste, Non-Renewable	0.1	0.1	0.1	0.2	0.1	0.2
Electricity	6.7	6.9	7.2	7.0	7.1	7.1
Heat	0.5	0.4	0.6	0.5	0.4	0.4
by Sector						
Industry	11.6	10.3	10.8	10.6	10.5	10.7
Transport	8.2	8.7	9.0	8.9	8.9	8.9
Residential	9.5	10.0	9.5	8.3	8.2	8.1
Services	3.5	4.1	4.9	4.6	4.6	4.6
Agriculture and Fishing	0.8	0.8	0.8	0.7	0.8	0.8
Others	0.1	0.1	0.1	0.0	0.0	0.0

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)						
Combustible Fuels	15.7	16.1	18.8	21.2	22.2	22.8
Nuclear	8.5	8.7	9.5	8.5	8.5	8.2
Hydro	5.7	5.8	5.9	5.9	5.9	5.9
Wind	1.4	1.4	1.4	1.4	1.4	1.4
Wind	0.0	0.2	0.9	2.2	2.8	3.3
Solar	0.0	0.0	1.0	3.1	3.6	4.0
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	84.0	86.8	94.9	69.4	86.2	74.6
Oil and Petroleum Products	12.9	8.2	4.2	2.1	0.1	0.1
Natural Gas	0.8	1.7	0.4	0.2	0.2	0.2
Nuclear	19.1	25.1	33.2	24.1	25.4	26.2
Nuclear	48.2	47.6	47.9	26.1	42.2	28.6
Renewables and Biofuels	2.3	3.4	7.9	15.6	17.0	18.2
Wastes non-RES	0.8	0.7	1.4	1.3	1.4	1.4
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			2.6	2.4	2.3	2.3
CHP Electricity Generation (TWh)			15.2	12.5	12.5	11.4
CHP in Total Electricity Generation (%)			16.0	17.7	14.4	15.1
CHP Heat Production (PJ)				104.4	108.7	89.5
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	8051	8536	8374	8475	8197	8225
of which LPG	98	84	53	64	59	55
of which Motor Gasoline	2323	1847	1235	1324	1432	1604
of which Gas/Diesel Oil	5486	6534	7072	7081	6700	6561
Final Consumption Biofuels	0	0	365	261	479	479
Pure and Blended Biogasoline	0	0	57	41	97	113
Pure and Blended Biodiesel	0	0	309	221	382	365
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	52.4	51.6	54.1	46.1	49.1	46.8
Final Energy Consumption 2020-2030 (Mtoe)	37.7	36.6	37.7	35.9	36.1	36.3
Primary Energy Intensity 2020-2030 (toe/M€'15)	159	142	139	111	114	107
Energy Intensity GAE/GDP2010 (toe/M€'15)	197	184	176	144	149	147
Energy per Capita – GIC/pop (kgoe/cap)	5805	5664	5653	4809	5020	4828
Final Electricity per Capita (KWh/cap)	7573	7678	7686	7268	7248	7260
Import Dependency (%)						
of Solid Fossil Fuels	78.2	80.0	77.9	83.4	74.4	82.3
of Hard Coal	91.2	101.3	97.5	95.5	94.8	104.1
of Oil and Petroleum Products	93.5	102.0	100.0	96.1	94.2	105.8
of Crude and NGL	100.2	100.8	101.3	103.8	97.1	100.7
of Natural Gas	100.2	99.5	99.9	100.0	100.1	100.0
of Natural Gas	99.3	100.5	100.3	99.3	98.4	100.6
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		2.33	5.64	8.00	9.06	9.42
RE-T – Renewable Energy in Transport		0.60	4.72	3.86	6.58	6.65
RES-E – Renewable Electricity Generation		2.35	7.14	15.59	17.27	18.90
RES-H&C – Renewable Heating & Cooling		3.42	6.05	7.82	8.04	8.19
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	131.4	129.2	118.7	105.4	104.3	105.4
GHG Emissions – National total*	154.4	149.9	138.5	123.8	122.8	123.6
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	103.3	100.2	92.6	82.8	82.1	82.7
Total GHG per Capita (t CO ₂ eq/cap)	15.1	14.3	12.8	11.0	10.8	10.8

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

5.4 Bulgaria

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	9.9	10.6	10.5	12.1	11.8	12.2
Solid Fossil Fuels	4.3	4.2	4.9	5.9	5.7	5.3
of which Hard Coal	0.0	0.0	0.0	0.0	0.0	0.2
of which Brown Coal	4.2	4.2	4.9	5.8	5.7	5.1
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	0.1	0.0
Nuclear	4.7	4.9	3.8	3.9	3.9	4.2
Renewables and Biofuels	0.8	1.1	1.5	2.1	1.9	2.6
Wastes, Non-Renewable	0.0	0.1	0.0	0.0	0.0	0.1
Net Imports	8.7	9.6	7.2	6.8	7.5	6.9
Solid Fossil Fuels	2.3	2.6	1.7	0.7	0.6	0.6
of which Hard Coal	2.2	2.5	1.7	0.7	0.5	0.5
Oil and Petroleum Products	4.1	5.2	4.2	4.5	4.7	4.5
of which Crude Oil and NGL	5.3	6.1	5.5	6.2	7.0	6.0
Natural gas	2.7	2.5	2.1	2.5	2.7	2.6
Renewables and Biofuels	0.0	0.0	-0.1	0.0	0.0	-0.1
Electricity	-0.4	-0.7	-0.7	-0.9	-0.5	-0.7
Gross Inland Consumption	18.6	20.1	17.9	18.7	18.9	19.0
Solid Fossil Fuels	6.4	6.9	6.9	6.6	6.1	5.6
of which Hard Coal	2.2	2.6	1.9	0.7	0.6	0.7
of which Brown Coal	4.2	4.2	4.9	5.8	5.6	5.0
Oil and Petroleum Products	4.2	5.0	4.0	4.3	4.5	4.6
of which Crude and NGL	5.4	6.3	5.6	6.1	6.9	6.0
Natural Gas	2.9	2.8	2.3	2.6	2.8	2.6
Nuclear	4.7	4.9	3.8	3.9	3.9	4.2
Renewables and Biofuels	0.8	1.1	1.5	2.1	2.0	2.5
Electricity	-0.4	-0.7	-0.7	-0.9	-0.5	-0.7
Waste, Non-Renewable	0.0	0.1	0.0	0.0	0.0	0.1
Available for Final Consumption	9.7	10.5	9.2	10.1	10.3	10.5
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	9.7
by Fuel/Product						
Solid Fossil Fuels	0.6	0.7	0.4	0.3	0.4	0.4
Oil and Petroleum Products	3.0	3.5	3.0	3.2	3.4	3.5
Natural Gas	1.4	1.4	1.1	1.3	1.4	1.3
Renewables and Biofuels	0.5	0.7	1.0	1.3	1.4	1.4
Solid Biofuels and Renewable Waste	0.5	0.7	0.9	1.0	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	0.1	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	0.0	0.0
Electricity	2.1	2.2	2.3	2.4	2.6	2.6
Heat	0.9	0.9	1.0	0.8	0.7	0.5
by Sector						
Industry	3.6	3.6	2.5	2.7	2.8	2.7
Transport	1.9	2.7	2.7	3.2	3.3	3.4
Residential	2.1	2.1	2.2	2.2	2.3	2.2
Services	0.7	0.8	1.0	1.1	1.2	1.2
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	2017	2018
Installed Electricity Capacity (GW)	11.1	12.3	10.0	10.9	10.9	11.3
Combustible Fuels	5.7	6.7	4.6	4.0	3.8	4.2
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	1.0
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	40.9	44.4	46.6	49.2	45.6	46.8
Solid Fossil Fuels, Peat & Products, Oil Shale	16.9	18.5	22.6	22.5	20.9	18.7
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	1.9	2.0
Nuclear	18.2	18.7	15.2	15.4	15.5	16.1
Renewables and Biofuels	3.0	4.7	6.4	9.3	6.8	9.6
Wastes non-RES	0.0	0.0	0.0	0.0	0.0	0.1
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			1.0	1.1	1.2	1.1
CHP Electricity Generation (TWh)			3.7	2.9	3.5	3.6
CHP in Total Electricity Generation (%)			8.0	6.0	7.7	7.8
CHP Heat Production (PJ)			40.4	31.9	40.1	40.1
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 722	2 439	2 440	2 811	2 880	2 965
of which LPG	223	434	374	463	479	457
of which Motor Gasoline	697	571	611	520	505	478
of which Gas/Diesel Oil	781	1 419	1 441	1 815	1 876	2 013
Final Consumption Biofuels	0	0	13	146	166	164
Pure and Blended Biogasoline	0	0	0	32	27	29
Pure and Blended Biodiesel	0	0	10	114	140	135
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	17.7	19.2	17.4	18.0	18.3	18.3
Final Energy Consumption 2020-2030 (Mtoe)	9.1	10.1	8.8	9.5	9.9	9.9
Primary Energy Intensity 2020-2030 (toe/M€'15)	653	539	416	393	373	363
Energy Intensity GAE/GDP2010 (toe/M€'15)	692	566	431	411	387	377
Energy per Capita – GIC/pop (kgoe/cap)	2 275	2 612	2 414	2 594	2 666	2 693
Final Electricity per Capita (KWh/cap)	2 961	3 345	3 652	3 933	4 211	4 240
Import Dependency (%)	46.4	47.3	40.1	36.4	39.4	36.4
of Solid Fossil Fuels	35.2	36.9	24.5	11.2	9.4	10.1
of Hard Coal	101.0	94.0	86.0	96.1	96.7	83.9
of Oil and Petroleum Products	96.0	102.5	101.9	101.8	101.6	96.2
of Crude and NGL	98.7	97.7	99.1	100.5	101.1	99.5
of Natural Gas	93.5	87.7	92.6	97.0	97.6	98.7
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		9.17	13.93	18.26	18.70	20.53
RE-T – Renewable Energy in Transport		0.80	1.43	6.44	7.25	8.06
RES-E – Renewable Electricity Generation		8.67	12.36	18.98	19.02	22.15
RES-H&C – Renewable Heating & Cooling		14.26	24.33	28.90	29.88	33.30
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	45.5	51.2	48.4	48.7	48.2	44.3
GHG Emissions – National total*	59.8	64.7	61.2	62.5	62.4	58.6
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	58.4	63.1	59.7	60.9	60.9	57.2
Total GHG per Capita (t CO ₂ eq/cap)	7.3	8.4	8.3	8.7	8.8	8.3

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

5.5 Czechia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	30.8	33.2	32.1	29.0	27.5	27.5
Solid Fossil Fuels	25.0	23.6	20.8	16.9	15.3	14.7
of which Hard Coal	9.4	8.4	7.5	5.4	3.6	2.9
of which Brown Coal	15.6	15.2	13.3	11.5	11.7	11.8
Oil and Petroleum Products	0.4	0.6	0.3	0.2	0.2	0.2
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	7.3	7.0	7.0	7.4
Renewables and Biofuels	1.6	2.3	3.3	4.4	4.5	4.6
Wastes, Non-Renewable	0.1	0.2	0.2	0.3	0.3	0.3
Net Imports	9.4	12.7	11.5	13.5	16.2	16.0
Solid Fossil Fuels	-4.7	-3.3	-2.9	-0.3	0.5	0.8
of which Hard Coal	-3.5	-2.8	-2.7	-0.4	0.8	1.1
Oil and Petroleum Products	7.5	9.7	9.0	8.7	9.4	9.8
of which Crude Oil and NGL	5.6	7.7	7.8	7.2	7.9	7.6
Natural gas	7.5	7.5	6.8	6.2	7.3	6.6
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	-1.2
Gross Inland Consumption	41.3	45.5	45.6	42.4	43.5	43.6
Solid Fossil Fuels	21.6	20.2	18.8	16.4	15.8	15.7
of which Hard Coal	6.2	5.6	5.1	4.9	4.4	4.1
of which Brown Coal	15.6	14.8	13.5	11.2	11.4	11.6
Oil and Petroleum Products	7.9	10.0	9.3	8.9	9.7	9.8
of which Crude and NGL	5.8	7.8	8.0	7.3	8.0	7.7
Natural Gas	7.5	7.7	8.1	6.5	7.2	6.8
Nuclear	3.5	6.5	7.3	7.0	7.0	7.4
Renewables and Biofuels	1.6	2.1	3.2	4.4	4.5	4.6
Electricity	-0.9	-1.1	-1.3	-1.1	-1.1	-1.2
Waste, Non-Renewable	0.1	0.2	0.2	0.3	0.3	0.3
Available for Final Consumption	26.4	28.2	27.8	25.9	27.9	27.6
Final Non-Energy Consumption	2.1	3.0	2.9	2.5	2.9	3.0
Final Energy Consumption	24.0	24.9	24.1	23.1	24.4	24.2
by Fuel/Product						
Solid Fossil Fuels	4.2	2.9	1.9	1.6	1.7	1.7
Oil and Petroleum Products	5.2	6.5	6.3	6.4	6.6	6.7
Natural Gas	5.9	6.2	6.1	5.0	5.5	5.2
Renewables and Biofuels	1.2	1.7	2.3	2.8	2.9	3.0
Solid Biofuels and Renewable Waste	1.1	1.6	2.0	2.3	2.3	2.3
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	0.1	0.0	0.2	0.3	0.3	0.3
Biogases	0.0	0.0	0.1	0.1	0.2	0.2
Waste, Non-Renewable	0.1	0.1	0.2	0.2	0.2	0.3
Electricity	4.2	4.6	4.7	4.7	4.9	5.0
Heat	2.6	2.5	2.4	2.0	2.1	2.1
by Sector						
Industry	9.2	8.7	6.9	6.5	6.7	6.7
Transport	4.2	5.7	5.9	6.2	6.6	6.7
Residential	6.4	6.7	7.4	6.8	7.2	7.0
Services	3.0	3.1	3.2	3.0	3.2	3.1
Agriculture and Fishing	0.7	0.5	0.5	0.6	0.6	0.6
Others	0.5	0.1	0.1	0.1	0.1	0.0

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)						
Combustible Fuels	11.5	11.5	12.0	13.0	13.3	13.3
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						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	52.8	49.5	46.9	41.1	41.4	41.2
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	6.2	6.1
Nuclear	13.6	24.7	28.0	26.8	28.3	29.9
Renewables and Biofuels	2.8	3.8	6.5	10.7	10.8	10.5
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	8.0	8.5
CHP Electricity Generation (TWh)			12.2	11.8	8.0	10.0
CHP in Total Electricity Generation (%)			14.2	14.0	9.2	11.4
CHP Heat Production (PJ)			135.7	106.0	103.5	102.1
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	3 915	5 551	5 470	5 693	6 087	6 125
of which LPG	68	74	81	104	100	96
of which Motor Gasoline	1 922	2 125	1 868	1 570	1 600	1 601
of which Gas/Diesel Oil	1 886	3 322	3 492	3 981	4 333	4 393
Final Consumption Biofuels	62	3	231	297	314	309
Pure and Blended Biogasoline	0	0	58	63	59	61
Pure and Blended Biodiesel	62	3	173	233	255	247
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	39.1	42.5	42.7	39.8	40.4	40.4
Final Energy Consumption 2020-2030 (Mtoe)	25.1	26.1	25.3	24.2	25.5	25.3
Primary Energy Intensity 2020-2030 (toe/M€'15)	345	309	275	236	224	218
Energy Intensity GAE/GDP2010 (toe/M€'15)	364	331	294	251	241	235
Energy per Capita – GIC/pop (kgoe/cap)	4 017	4 465	4 358	4 020	4 109	4 105
Final Electricity per Capita (KWh/cap)	4 804	5 256	5 183	5 169	5 424	5 467
Import Dependency (%)						
of Solid Fossil Fuels	-22.0	-16.2	-15.3	-1.8	3.0	5.3
of Hard Coal	-56.4	-49.4	-53.9	-8.6	17.8	26.8
of Oil and Petroleum Products	95.3	97.5	96.5	97.8	97.1	99.5
of Crude and NGL	95.2	99.3	97.5	98.4	99.1	98.6
of Natural Gas	99.8	97.8	84.8	95.1	101.9	96.8
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		7.12	10.51	15.07	14.80	15.15
RE-T – Renewable Energy in Transport		0.99	5.12	6.45	6.57	6.52
RES-E – Renewable Electricity Generation		3.78	7.52	14.07	13.65	13.71
RES-H&C – Renewable Heating & Cooling		10.84	14.10	19.79	19.73	20.65
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	128.8	127.7	119.4	106.5	107.4	106.3
GHG Emissions – National total*	151.2	150.0	141.8	130.0	130.9	129.4
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	75.8	75.1	71.1	65.1	65.6	64.8
Total GHG per Capita (t CO ₂ eq/cap)	14.7	14.7	13.6	12.3	12.4	12.2

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

5.6 Denmark

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	27.8	31.4	23.4	16.2	15.7	14.0
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	18.3	19.0	12.5	7.9	6.9	5.8
of which Crude Oil	18.3	19.0	12.5	7.9	6.9	5.8
Natural Gas	7.4	9.4	7.3	4.1	4.4	3.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	1.8	2.5	3.2	3.8	4.1	4.1
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	2.3	4.5
Solid Fossil Fuels	3.8	3.5	2.6	1.5	2.0	1.8
of which Hard Coal	3.8	3.5	2.6	1.5	2.0	1.7
Oil and Petroleum Products	-8.5	-9.4	-3.8	0.4	-0.4	1.5
of which Crude Oil and NGL	-10.0	-11.2	-5.1	-0.4	0.7	2.0
Natural gas	-2.9	-5.0	-3.0	-1.4	-1.5	-1.0
Renewables and Biofuels	0.1	0.4	0.9	1.2	1.8	1.8
Electricity	0.1	0.1	-0.1	0.5	0.4	0.4
Gross Inland Consumption	19.5	19.8	20.4	17.3	18.2	18.3
Solid Fossil Fuels	4.0	3.7	3.8	1.8	1.7	1.7
of which Hard Coal	4.0	3.7	3.8	1.8	1.7	1.7
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	7.0	7.1
of which Crude and NGL	8.3	7.9	7.4	7.5	7.7	7.8
Natural Gas	4.4	4.4	4.4	2.9	2.7	2.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	1.9	2.9	4.0	5.0	5.9	5.9
Electricity	0.1	0.1	-0.1	0.5	0.4	0.4
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	14.3	14.4
Final Non-Energy Consumption	0.3	0.3	0.3	0.3	0.2	0.2
Final Energy Consumption	14.0	14.7	14.8	13.5	14.0	14.1
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	5.2	5.3
Natural Gas	1.7	1.7	1.7	1.5	1.6	1.6
Renewables and Biofuels	0.7	1.0	1.4	1.7	1.8	1.8
Solid Biofuels and Renewable Waste	0.6	0.9	1.2	1.2	1.3	1.4
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	0.2	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	0.0	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	2.6	2.5
by Sector						
Industry	2.9	2.9	2.4	2.2	2.3	2.3
Transport	4.0	4.5	4.4	4.2	4.4	4.4
Residential	4.2	4.5	5.0	4.4	4.6	4.6
Services	1.8	2.0	2.1	1.9	2.0	2.0
Agriculture and Fishing	1.0	0.9	0.9	0.8	0.7	0.7
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	12.3	13.0	13.4	14.0	14.3	15.1
Combustible Fuels	9.9	9.9	9.6	8.1	7.9	7.9
Nuclear						
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	2.4	3.1	3.8	5.1	5.5	6.1
Solar	0.0	0.0	0.0	0.8	0.9	1.0
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	36.0	36.2	38.9	28.9	31.0	30.4
Solid Fossil Fuels, Peat & Products, Oil Shale	16.7	15.5	17.0	7.1	6.2	6.6
Oil and Petroleum Products	4.4	1.4	0.8	0.3	0.3	0.3
Natural Gas	8.8	8.8	7.9	1.8	2.0	2.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	5.6	9.8	12.4	18.9	21.8	20.8
Wastes non-RES	0.6	0.8	0.7	0.8	0.7	0.7
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			5.8	6.1	5.8	5.9
CHP Electricity Generation (TWh)			19.1	11.6	11.8	11.4
CHP in Total Electricity Generation (%)			49.2	40.0	38.1	37.6
CHP Heat Production (PJ)			124.7	93.3	94.4	95.2
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	4007	4436	4308	3946	4105	4166
of which LPG	10	8	0	0	0	0
of which Motor Gasoline	2019	1922	1574	1389	1384	1387
of which Gas/Diesel Oil	1863	2372	2649	2507	2659	2735
Final Consumption Biofuels	0	0	27	214	215	214
Pure and Blended Biogasoline	0	0	27	44	44	43
Pure and Blended Biodiesel	0	0	0	170	172	171
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	19.1	19.4	20.0	16.9	17.7	17.8
Final Energy Consumption 2020-2030 (Mtoe)	14.7	15.5	15.5	14.2	14.8	14.9
Primary Energy Intensity 2020-2030 (toe/M€'15)	81	77	78	62	62	60
Energy Intensity GAE/GDP2010 (toe/M€'15)	88	81	82	66	65	64
Energy per Capita – GIC/pop (kgoe/cap)	3659	3664	3689	3064	3165	3163
Final Electricity per Capita (KWh/cap)	6089	6184	5792	5444	5443	5377
Import Dependency (%)	-35.9	-50.6	-16.0	13.0	12.3	23.7
of Solid Fossil Fuels	94.9	94.4	69.4	85.0	115.9	102.1
of Hard Coal	94.8	94.3	69.3	85.0	116.0	102.0
of Oil and Petroleum Products	-84.0	-104.4	-44.3	5.3	-4.7	19.2
of Crude and NGL	-120.5	-141.3	-68.8	-4.9	9.7	25.3
of Natural Gas	-64.8	-113.9	-68.3	-48.2	-56.2	-38.5
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		15.96	21.89	30.84	34.72	35.71
RE-T – Renewable Energy in Transport		0.44	1.15	6.43	6.60	6.57
RES-E – Renewable Electricity Generation		24.65	32.74	51.29	59.97	62.43
RES-H&C – Renewable Heating & Cooling		22.78	30.45	40.14	45.26	46.66
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	57.4	54.7	52.0	38.1	37.9	38.0
GHG Emissions – National total*	73.6	69.3	66.0	51.3	51.3	51.3
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	101.4	95.5	90.9	70.7	70.7	70.7
Total GHG per Capita (t CO ₂ eq/cap)	13.8	12.8	11.9	9.1	8.9	8.9

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

5.7 Germany

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	135.5	138.1	132.1	121.0	116.0	113.3
Solid Fossil Fuels	60.6	56.5	45.9	43.0	39.4	37.9
of which Hard Coal	24.2	18.0	9.2	4.6	2.7	1.9
of which Brown Coal	36.4	38.4	36.7	38.4	36.8	36.0
Oil and Petroleum Products	4.6	5.5	4.1	4.0	4.0	4.0
of which Crude Oil	3.2	3.6	2.5	2.5	2.3	2.1
Natural Gas	15.8	14.3	11.1	6.3	6.0	4.7
Nuclear	43.8	42.1	36.2	23.6	19.7	19.6
Renewables and Biofuels	9.0	18.0	30.9	39.8	42.4	43.0
Wastes, Non-Renewable	1.7	1.8	3.9	4.3	4.5	4.2
Net Imports	204.9	212.0	204.6	199.1	207.4	201.0
Solid Fossil Fuels	21.7	26.0	31.6	36.1	32.3	29.4
of which Hard Coal	17.2	23.8	29.1	35.2	32.0	29.0
Oil and Petroleum Products	126.1	123.7	112.2	108.4	110.7	105.2
of which Crude Oil and NGL	101.5	114.5	94.0	92.3	92.1	86.5
Natural gas	56.9	61.9	61.6	58.7	68.8	70.5
Renewables and Biofuels	0.0	0.8	0.4	0.2	0.1	0.0
Electricity	0.3	-0.4	-1.3	-4.2	-4.5	-4.2
Gross Inland Consumption	342.4	346.5	338.2	318.1	322.0	314.4
Solid Fossil Fuels	84.8	81.8	79.1	79.4	71.3	69.7
of which Hard Coal	43.8	41.2	39.8	40.2	34.2	33.2
of which Brown Coal	37.2	38.4	36.7	38.1	36.8	36.2
Oil and Petroleum Products	131.1	124.6	113.2	109.9	113.2	108.5
of which Crude and NGL	108.2	117.7	96.6	95.1	94.6	89.1
Natural Gas	71.9	77.8	75.9	65.2	75.3	73.6
Nuclear	43.8	42.1	36.2	23.6	19.7	19.6
Renewables and Biofuels	9.0	18.8	31.3	39.9	42.5	43.0
Electricity	0.3	-0.4	-1.3	-4.2	-4.5	-4.2
Waste, Non-Renewable	1.7	1.8	3.9	4.3	4.5	4.2
Available for Final Consumption	234.8	235.9	233.1	220.8	228.7	223.7
Final Non-Energy Consumption	25.3	24.7	22.6	21.3	22.8	21.5
Final Energy Consumption	207.2	207.3	209.9	200.0	204.5	200.9
by Fuel/Product						
Solid Fossil Fuels	5.6	4.0	4.4	4.7	4.5	3.8
Oil and Petroleum Products	92.3	82.2	74.9	73.0	73.7	70.7
Natural Gas	53.0	52.6	54.0	49.3	52.8	53.2
Renewables and Biofuels	4.8	10.1	16.2	15.6	15.8	15.8
Solid Biofuels and Renewable Waste	4.4	7.4	11.2	9.9	9.8	9.6
Solar Thermal	0.1	0.3	0.5	0.7	0.7	0.8
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	2.9
Biogases	0.1	0.3	0.8	1.3	1.4	1.3
Waste, Non-Renewable	0.0	0.3	1.0	1.0	1.1	1.2
Electricity	41.6	44.9	45.7	44.3	44.6	44.1
Heat	6.8	10.6	11.3	9.5	9.8	9.5
by Sector						
Industry	51.4	54.5	56.7	56.1	57.1	57.4
Transport	60.0	54.8	53.1	55.1	57.2	55.7
Residential	65.3	63.7	63.8	55.0	56.5	55.3
Services	25.8	33.7	34.8	32.2	32.0	29.1
Agriculture and Fishing	0.3	0.2	1.3	1.5	1.4	3.3
Others	4.3	0.3	0.2	0.1	0.1	0.1

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	118.9	128.5	162.9	203.3	215.3	229.2
Combustible Fuels	80.8	76.4	85.8	97.0	95.1	103.0
Nuclear	22.4	20.4	20.5	10.8	10.8	10.8
Hydro	9.5	10.9	11.2	11.3	11.1	10.9
Wind	6.1	18.3	27.0	44.6	55.6	58.8
Solar	0.1	2.1	18.0	39.2	42.3	45.2
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	576.5	620.2	631.0	646.5	652.0	641.6
Solid Fossil Fuels, Peat & Products, Oil Shale	296.7	288.1	262.9	272.2	241.3	228.2
Oil and Petroleum Products	4.8	12.0	8.7	6.2	5.6	5.2
Natural Gas	60.0	83.6	100.9	74.5	99.3	94.2
Nuclear	169.6	163.1	140.6	91.8	76.3	76.0
Renewables and Biofuels	39.7	70.2	111.6	194.7	222.3	230.9
Wastes non-RES	5.8	3.3	6.4	7.1	7.3	7.1
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			24.6	37.1	39.6	53.9
CHP Electricity Generation (TWh)			83.2	78.8	94.4	88.5
CHP in Total Electricity Generation (%)			13.2	12.2	14.4	13.8
CHP Heat Production (PJ)			675.8	669.9	703.2	676.1
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	58 362	51 045	48 714	51 194	53 158	51 365
of which LPG	71	122	619	594	497	551
of which Motor Gasoline	30 241	23 722	18 859	16 926	17 187	16 539
of which Gas/Diesel Oil	27 110	26 364	28 449	32 944	34 801	33 624
Final Consumption Biofuels	236	1 824	2 883	2 536	2 566	2 668
Pure and Blended Biogasoline	0	153	749	744	733	748
Pure and Blended Biodiesel	222	1 526	2 090	1 791	1 831	1 919
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	317.1	321.6	315.2	295.9	298.1	291.7
Final Energy Consumption 2020-2030 (Mtoe)	220.2	219.7	223.0	212.7	218.6	215.4
Primary Energy Intensity 2020-2030 (toe/M€'15)	124	123	113	98	94	91
Energy Intensity GAE/GDP2010 (toe/M€'15)	135	133	123	106	102	98
Energy per Capita – GIC/pop (kgoe/cap)	4 168	4 200	4 135	3 918	3 902	3 798
Final Electricity per Capita (KWh/cap)	5 884	6 332	6 504	6 342	6 289	6 195
Import Dependency (%)	59.4	60.7	60.0	62.1	64.0	63.6
of Solid Fossil Fuels	25.6	31.7	40.0	45.4	45.3	42.1
of Hard Coal	39.2	57.7	73.2	87.6	93.4	87.4
of Oil and Petroleum Products	94.6	97.3	96.8	96.5	95.8	95.5
of Crude and NGL	93.8	97.3	97.3	97.1	97.4	97.1
of Natural Gas	79.1	79.6	81.2	90.1	91.4	95.9
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		7.18	11.69	14.90	15.47	16.48
RE-T – Renewable Energy in Transport		3.95	6.42	6.57	7.03	7.92
RES-E – Renewable Electricity Generation		10.61	18.32	30.88	34.61	38.03
RES-H&C – Renewable Heating & Cooling		7.71	12.05	13.43	13.37	13.63
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	919.2	889.4	857.0	820.3	815.8	785.4
GHG Emissions – National total*	1 063.0	1 016.4	966.9	931.0	923.8	888.7
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	84.3	80.6	76.6	73.8	73.2	70.4
Total GHG per Capita (t CO ₂ eq/cap)	12.9	12.3	11.8	11.5	11.2	10.7

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

5.8 Estonia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	3.2	3.9	4.9	5.6	5.8	6.6
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	1.6	1.7
Wastes, Non-Renewable	0.0	0.0	0.0	0.1	0.1	0.0
Net Imports	1.6	1.5	0.9	0.6	0.2	0.0
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	0.6	0.4
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	-0.5	-0.6
Electricity	-0.1	-0.1	-0.3	-0.1	-0.2	-0.2
Gross Inland Consumption	4.7	5.3	5.7	5.4	5.8	6.3
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	0.2	0.1
of which Crude 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
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	0.5	0.6	0.9	0.9	1.1	1.2
Electricity	-0.1	-0.1	-0.3	-0.1	-0.2	-0.2
Waste, Non-Renewable	0.0	0.0	0.0	0.1	0.1	0.0
Available for Final Consumption	2.7	3.2	3.0	2.8	3.0	3.0
Final Non-Energy Consumption	0.2	0.2	0.1	0.1	0.1	0.1
Final Energy Consumption	2.4	2.8	2.9	2.7	2.8	2.9
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	1.0
Natural Gas	0.2	0.3	0.2	0.2	0.2	0.3
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	0.5
Transport	0.6	0.7	0.8	0.8	0.8	0.8
Residential	0.9	0.9	1.0	0.9	0.9	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	2017	2018
Installed Electricity Capacity (GW)	2.8	2.6	2.8	2.9	2.5	2.8
Combustible Fuels	2.8	2.5	2.6	2.6	2.2	2.5
Nuclear						
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	0.0	0.0
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	8.5	10.2	13.0	10.4	12.9	12.4
Solid Fossil Fuels, Peat & Products, Oil Shale	7.7	9.3	11.2	8.0	10.0	9.4
Oil and Petroleum Products	0.1	0.0	0.0	0.1	0.1	0.1
Natural Gas	0.8	0.8	0.7	0.6	0.8	0.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	0.0	0.1	1.0	1.5	1.8	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)			0.4	0.4	0.0	0.2
CHP Electricity Generation (TWh)			1.3	1.2	1.1	1.1
CHP in Total Electricity Generation (%)			10.3	11.9	8.4	8.9
CHP Heat Production (PJ)			12.3	12.5	13.6	3.5
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	555	718	743	751	793	804
of which LPG	1	1	2	5	7	9
of which Motor Gasoline	295	305	289	241	267	272
of which Gas/Diesel Oil	258	409	451	503	517	521
Final Consumption Biofuels	0	0	11	6	2	17
Pure and Blended Biogasoline	0	0	4	3	1	5
Pure and Blended Biodiesel	0	0	6	4	1	12
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	4.6	5.1	5.6	5.3	5.6	6.2
Final Energy Consumption 2020-2030 (Mtoe)	2.4	2.9	2.9	2.8	2.9	3.0
Primary Energy Intensity 2020-2030 (toe/M€'15)	362	282	316	256	250	261
Energy Intensity GAE/GDP2010 (toe/M€'15)	384	301	333	275	269	279
Energy per Capita – GIC/pop (kgoe/cap)	3 378	3 881	4 253	4 134	4 374	4 774
Final Electricity per Capita (KWh/cap)	3 579	4 445	5 181	5 211	5 497	5 679
Import Dependency (%)	33.8	28.2	15.5	9.8	3.9	0.7
of Solid Fossil Fuels	125.2	88.4	132.6	-6.8	87.2	85.2
of Hard Coal	116.1	96.4	118.3	24.1	93.8	88.0
of Oil and Petroleum Products	101.5	98.8	95.8	101.7	115.4	84.3
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 RES (with aviation cap)	17.42	24.57	28.23	29.13	30.00	
RE-T – Renewable Energy in Transport	0.21	0.39	0.39	0.41	3.29	
RES-E – Renewable Electricity Generation	1.13	10.29	15.12	17.44	19.69	
RES-H&C – Renewable Heating & Cooling	32.20	43.26	49.39	51.36	53.69	
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	15.3	17.1	18.9	16.0	18.8	17.9
GHG Emissions – National total*	17.3	19.2	21.1	18.3	21.1	20.2
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	42.9	47.4	52.3	45.2	52.3	50.0
Total GHG per Capita (t CO ₂ eq/cap)	12.4	14.1	15.8	13.9	16.0	15.3

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

5.9 Ireland

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	2.2	1.7	1.9	2.0	4.9	5.0
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	1.0	0.5	0.2	0.1	2.8	2.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	0.2	0.4	0.6	1.0	1.2	1.3
Wastes, Non-Renewable	0.0	0.0	0.0	0.1	0.1	0.1
Net Imports	12.4	14.0	13.2	12.7	9.9	10.1
Solid Fossil Fuels	1.7	1.9	1.0	1.5	1.2	0.8
of which Hard Coal	1.7	1.9	0.9	1.5	1.2	0.8
Oil and Petroleum Products	8.2	8.9	7.7	7.5	7.2	7.4
of which Crude Oil and NGL	3.0	3.3	3.0	3.7	3.0	3.1
Natural gas	2.5	3.0	4.5	3.6	1.4	1.7
Renewables and Biofuels	0.0	0.0	0.0	0.1	0.2	0.1
Electricity	0.0	0.2	0.0	0.1	-0.1	0.0
Gross Inland Consumption	14.4	15.5	15.1	14.2	14.7	14.8
Solid Fossil Fuels	1.8	1.9	1.2	1.4	1.1	0.7
of which Hard Coal	1.8	1.9	1.2	1.4	1.1	0.7
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	7.2	7.4
of which Crude and NGL	3.4	3.4	3.0	3.4	3.3	3.1
Natural Gas	3.4	3.5	4.7	3.8	4.3	4.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	0.2	0.4	0.7	1.1	1.3	1.5
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	11.0	11.3
Final Non-Energy Consumption	0.7	0.5	0.3	0.2	0.2	0.2
Final Energy Consumption	10.2	11.8	11.3	10.4	10.7	11.2
by Fuel/Product						
Solid Fossil Fuels	0.4	0.5	0.3	0.3	0.2	0.2
Oil and Petroleum Products	6.5	7.5	6.6	5.6	5.8	6.0
Natural Gas	1.2	1.4	1.6	1.7	1.8	1.9
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	2.2	2.3
Heat	0.0	0.0	0.0	0.0	0.0	0.0
by Sector						
Industry	2.5	2.6	2.1	2.4	2.5	2.6
Transport	3.5	4.3	4.0	3.8	4.0	4.1
Residential	2.5	3.0	3.3	2.7	2.6	2.8
Services	1.3	1.6	1.5	1.3	1.4	1.5
Agriculture and Fishing	0.4	0.4	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	2017	2018
Installed Electricity Capacity (GW)	4.7	6.1	8.1	9.7	10.6	11.0
Combustible Fuels	4.1	5.1	6.5	6.7	6.7	6.8
Nuclear						
Hydro	0.5	0.5	0.2	0.5	0.5	0.5
Wind	0.1	0.5	1.4	2.5	3.3	3.7
Solar	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	24.0	26.0	28.4	28.4	30.9	31.1
Solid Fossil Fuels, Peat & Products, Oil Shale	8.6	8.8	5.7	7.4	5.8	4.2
Oil and Petroleum Products	4.6	3.3	0.6	0.4	0.1	0.1
Natural Gas	9.3	11.6	18.1	12.4	15.7	16.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	1.5	2.2	3.9	8.1	9.1	10.4
Wastes non-RES	0.0	0.0	0.0	0.1	0.2	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	2.2	2.1
CHP in Total Electricity Generation (%)			6.7	7.5	7.0	6.8
CHP Heat Production (PJ)			12.0	12.6	11.8	11.6
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	3 509	4 309	3 939	3 693	3 863	3 923
of which LPG	6	6	1	2	1	2
of which Motor Gasoline	1 590	1 823	1 527	1 020	905	821
of which Gas/Diesel Oil	1 856	2 417	2 365	2 665	2 954	3 095
Final Consumption Biofuels	0	1	93	86	151	154
Pure and Blended Biogasoline	0	0	30	24	24	27
Pure and Blended Biodiesel	0	1	62	62	128	127
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	13.7	14.9	14.7	13.9	14.4	14.5
Final Energy Consumption 2020-2030 (Mtoe)	10.8	12.7	12.0	11.2	11.7	12.3
Primary Energy Intensity 2020-2030 (toe/M€'15)	96	80	77	53	49	46
Energy Intensity GAE/GDP2010 (toe/M€'15)	101	84	80	55	50	47
Energy per Capita – GIC/pop (kgoe/cap)	3 804	3 762	3 311	3 029	3 067	3 069
Final Electricity per Capita (KWh/cap)	5 371	5 923	5 588	5 360	5 403	5 619
Import Dependency (%)	85.4	89.6	87.1	88.7	67.0	67.4
of Solid Fossil Fuels	93.3	100.8	77.7	103.1	111.0	114.5
of Hard Coal	93.1	100.8	77.5	103.1	111.4	114.9
of Oil and Petroleum Products	98.8	100.0	97.5	104.6	98.2	98.0
of Crude and NGL	89.8	98.9	101.6	108.2	91.7	98.7
of Natural Gas	72.1	86.1	95.3	96.3	32.7	38.8
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		2.81	5.71	9.11	10.59	11.06
RE-T – Renewable Energy in Transport		0.07	2.41	6.06	7.44	7.17
RES-E – Renewable Electricity Generation		7.20	15.64	25.53	30.10	33.24
RES-H&C – Renewable Heating & Cooling		3.44	4.31	6.09	6.66	6.47
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	47.1	50.6	44.1	41.1	41.9	42.1
GHG Emissions – National total*	70.1	72.2	63.6	62.0	64.1	64.2
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	124.0	127.7	112.5	109.6	113.3	113.6
Total GHG per Capita (t CO ₂ eq/cap)	18.6	17.6	14.0	13.2	13.4	13.3

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

5.10 Greece

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	10.0	10.4	9.5	8.5	7.5	7.5
Solid Fossil Fuels	8.2	8.5	7.3	5.7	4.6	4.3
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	4.6	4.3
Oil and Petroleum Products	0.3	0.1	0.1	0.1	0.1	0.2
of which Crude Oil	0.3	0.1	0.1	0.1	0.1	0.2
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	2.8	3.0
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	18.9	18.4
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	13.8	13.3
of which Crude Oil and NGL	19.2	17.6	19.1	21.8	23.3	23.9
Natural gas	1.7	2.3	3.2	2.7	4.2	4.1
Renewables and Biofuels	0.0	0.0	0.2	0.1	0.1	0.1
Electricity	0.0	0.3	0.5	0.8	0.5	0.5
Gross Inland Consumption	27.9	31.1	28.3	24.1	24.4	23.8
Solid Fossil Fuels	9.0	9.0	7.9	5.6	4.8	4.6
of which Hard Coal	0.7	0.3	0.4	0.2	0.2	0.3
of which Brown Coal	8.3	8.6	7.5	5.4	4.6	4.3
Oil and Petroleum Products	15.6	17.7	14.5	12.0	11.9	11.4
of which Crude and NGL	19.3	18.5	19.2	21.5	23.8	24.1
Natural Gas	1.7	2.4	3.2	2.7	4.2	4.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	1.5	1.7	2.2	2.8	2.9	3.1
Electricity	0.0	0.3	0.5	0.8	0.5	0.5
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	16.6	16.0
Final Non-Energy Consumption	0.7	0.8	1.1	0.7	0.9	0.9
Final Energy Consumption	17.9	20.2	18.4	15.7	15.7	15.2
by Fuel/Product						
Solid Fossil Fuels	0.9	0.4	0.3	0.2	0.2	0.3
Oil and Petroleum Products	11.9	13.6	11.4	8.6	8.3	8.1
Natural Gas	0.3	0.6	0.8	1.0	0.8	0.8
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	0.9	0.9
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	4.6	4.3
Heat	0.0	0.0	0.0	0.0	0.1	0.1
by Sector						
Industry	4.5	4.2	3.5	3.1	2.8	2.7
Transport	6.5	7.4	7.5	5.8	5.8	5.9
Residential	4.6	5.6	4.7	4.5	4.4	3.9
Services	1.3	2.0	2.0	1.9	2.2	2.1
Agriculture and Fishing	1.1	1.2	0.8	0.3	0.3	0.3
Others	0.0	0.0	0.0	0.3	0.2	0.2

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	10.9	13.3	15.3	18.9	19.4	19.6
Combustible Fuels	7.6	9.7	10.6	10.9	10.8	10.6
Nuclear						
Hydro	3.1	3.1	3.2	3.4	3.4	3.4
Wind	0.2	0.5	1.3	2.1	2.6	2.9
Solar	0.0	0.0	0.2	2.6	2.6	2.7
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	53.8	60.0	57.4	51.9	55.3	53.3
Solid Fossil Fuels, Peat & Products, Oil Shale	34.3	35.5	30.8	22.1	18.8	17.2
Oil and Petroleum Products	8.9	9.2	6.1	5.7	5.5	5.5
Natural Gas	5.9	8.2	9.8	9.1	17.1	14.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	4.6	7.0	10.5	14.9	13.9	16.2
Wastes non-RES	0.2	0.1	0.1	0.1	0.0	0.3
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.6	0.6	0.3	0.4
CHP Electricity Generation (TWh)			2.5	2.0	2.2	2.4
CHP in Total Electricity Generation (%)			4.3	3.9	3.9	4.5
CHP Heat Production (PJ)			12.7	10.9	14.6	17.4
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	6 438	7 343	7 322	5 563	5 621	5 712
of which LPG	17	12	46	257	246	242
of which Motor Gasoline	3 418	4 114	3 867	2 574	2 451	2 403
of which Gas/Diesel Oil	2 252	2 489	2 730	2 254	2 415	2 504
Final Consumption Biofuels	0	0	125	142	166	159
Pure and Blended Biogasoline	0	0	0	0	0	0
Pure and Blended Biodiesel	0	0	125	142	166	159
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	27.2	30.3	27.2	23.4	23.2	22.6
Final Energy Consumption 2020-2030 (Mtoe)	18.7	21.0	19.1	16.6	16.4	15.9
Primary Energy Intensity 2020-2030 (toe/M€'15)	149	137	126	132	129	123
Energy Intensity GAE/GDP2010 (toe/M€'15)	173	154	143	146	148	142
Energy per Capita – GIC/pop (kgoe/cap)	2 589	2 831	2 549	2 218	2 265	2 218
Final Electricity per Capita (KWh/cap)	4 005	4 640	4 777	4 677	5 012	4 606
Import Dependency (%)	69.1	68.2	68.6	71.0	71.3	70.7
of Solid Fossil Fuels	8.5	4.1	5.1	2.8	4.8	5.1
of Hard Coal	105.8	112.4	100.5	91.5	109.3	87.4
of Oil and Petroleum Products	100.3	97.8	98.7	105.5	98.1	97.9
of Crude and NGL	99.6	95.2	99.6	101.5	97.9	99.2
of Natural Gas	99.1	99.1	99.9	99.9	100.5	100.7
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		7.28	10.08	15.69	16.95	18.00
RE-T – Renewable Energy in Transport		0.05	1.91	1.08	4.00	3.83
RES-E – Renewable Electricity Generation		8.21	12.31	22.09	24.48	26.01
RES-H&C – Renewable Heating & Cooling		13.38	18.66	26.56	26.57	30.18
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	105.5	116.5	99.9	77.8	78.3	75.7
GHG Emissions – National total*	129.0	139.1	121.1	98.4	99.0	96.1
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	122.0	131.4	114.5	93.0	93.6	90.8
Total GHG per Capita (t CO ₂ eq/cap)	12.0	12.7	10.9	9.1	9.2	8.9

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

5.11 Spain

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	31.3	30.0	34.4	34.0	34.3	34.6
Solid Fossil Fuels	8.0	6.3	3.3	1.2	1.1	0.9
of which Hard Coal	5.4	4.1	2.5	0.8	0.5	0.4
of which Brown Coal	2.6	2.1	0.8	0.4	0.6	0.5
Oil and Petroleum Products	0.2	0.2	0.1	0.2	0.1	0.1
of which Crude Oil	0.2	0.2	0.1	0.2	0.1	0.1
Natural Gas	0.1	0.1	0.0	0.1	0.0	0.1
Nuclear	16.0	14.8	16.1	14.9	15.1	14.5
Renewables and Biofuels	6.7	8.4	14.6	17.3	17.6	18.8
Wastes, Non-Renewable	0.2	0.2	0.2	0.3	0.3	0.3
Net Imports	99.9	124.2	106.7	94.9	101.3	100.8
Solid Fossil Fuels	12.8	14.4	6.8	10.2	10.9	9.0
of which Hard Coal	13.3	14.7	6.9	10.1	10.8	8.9
Oil and Petroleum Products	71.2	79.7	69.3	61.3	62.6	63.8
of which Crude Oil and NGL	58.1	60.2	53.0	65.4	66.6	68.3
Natural gas	15.5	30.2	31.0	23.8	27.6	27.5
Renewables and Biofuels	0.0	0.0	0.4	-0.4	-0.6	-0.4
Electricity	0.4	-0.1	-0.7	0.0	0.8	1.0
Gross Inland Consumption	124.0	144.5	130.0	122.8	130.8	130.6
Solid Fossil Fuels	20.9	20.5	7.3	13.6	12.9	11.5
of which Hard Coal	18.5	18.6	7.2	12.7	12.2	11.0
of which Brown Coal	2.8	2.3	0.2	0.7	0.6	0.4
Oil and Petroleum Products	64.4	70.8	60.9	52.5	57.3	57.5
of which Crude and NGL	57.7	60.1	53.4	65.7	66.7	68.6
Natural Gas	15.2	29.8	31.1	24.5	27.3	27.1
Nuclear	16.0	14.8	16.1	14.9	15.1	14.5
Renewables and Biofuels	6.8	8.4	15.1	17.1	17.1	18.7
Electricity	0.4	-0.1	-0.7	0.0	0.8	1.0
Waste, Non-Renewable	0.2	0.2	0.2	0.3	0.3	0.3
Available for Final Consumption	85.4	102.0	91.4	79.2	85.7	87.7
Final Non-Energy Consumption	9.5	8.4	7.1	4.3	4.9	5.2
Final Energy Consumption	76.3	93.9	85.5	76.2	80.0	82.0
by Fuel/Product						
Solid Fossil Fuels	0.8	0.8	0.5	0.4	0.5	0.5
Oil and Petroleum Products	43.7	50.5	43.9	36.7	38.8	39.5
Natural Gas	11.8	17.7	14.3	13.1	13.5	14.3
Renewables and Biofuels	3.5	3.8	5.4	5.7	6.4	7.0
Solid Biofuels and Renewable Waste	3.3	3.4	3.7	4.0	4.1	4.1
Solar Thermal	0.0	0.1	0.2	0.3	0.3	0.3
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid Biofuels	0.1	0.3	1.4	1.0	1.3	1.7
Biogases	0.0	0.0	0.1	0.1	0.1	0.1
Waste, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	16.2	20.8	21.0	20.0	20.6	20.5
Heat	0.0	0.0	0.0	0.0	0.0	0.0
by Sector						
Industry	24.5	30.1	20.8	18.2	19.6	20.2
Transport	30.5	37.0	34.2	29.4	31.7	32.5
Residential	12.1	15.2	17.0	15.0	14.6	15.0
Services	6.7	8.3	9.8	10.6	11.2	11.2
Agriculture and Fishing	2.6	3.1	2.2	2.5	2.7	2.8
Others	0.0	0.2	1.5	0.5	0.3	0.3

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	53.9	76.6	101.7	106.8	103.9	103.7
Combustible Fuels	26.2	40.8	50.4	49.3	46.5	46.0
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	23.1	23.4
Solar	0.0	0.1	4.6	7.0	7.0	7.1
Geothermal						
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)	224.5	289.1	301.4	280.7	275.6	274.4
Solid Fossil Fuels, Peat & Products, Oil Shale	79.1	79.1	25.3	51.4	45.1	37.3
Oil and Petroleum Products	22.6	24.4	16.6	17.2	15.8	14.5
Natural Gas	21.9	80.7	95.8	53.8	65.3	59.4
Nuclear	62.2	57.5	62.0	57.2	58.0	55.8
Renewables and Biofuels	38.0	46.9	101.0	100.3	90.7	106.4
Wastes non-RES	0.6	0.5	0.7	0.8	0.8	1.0
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			3.4	3.5	4.6	4.7
CHP Electricity Generation (TWh)			22.4	22.7	28.8	29.0
CHP in Total Electricity Generation (%)			7.4	8.1	10.4	10.6
CHP Heat Production (PJ)			153.3	120.3	139.2	141.9
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	30053	36144	32407	27979	29935	30299
of which LPG	85	51	21	49	58	70
of which Motor Gasoline	9019	7682	5620	4561	4871	5076
of which Gas/Diesel Oil	18903	26037	24228	21433	22352	22412
Final Consumption Biofuels	71	257	1420	964	1259	1681
Pure and Blended Biogasoline	0	114	232	190	138	154
Pure and Blended Biodiesel	71	143	1188	774	1121	1528
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	114.5	136.0	122.9	118.0	125.2	124.6
Final Energy Consumption 2020-2030 (Mtoe)	80.0	98.1	89.4	80.6	84.9	86.9
Primary Energy Intensity 2020-2030 (toe/M€'15)	131	132	114	110	110	107
Energy Intensity GAE/GDP2010 (toe/M€'15)	149	148	128	121	120	118
Energy per Capita – GIC/pop (kgoe/cap)	3065	3337	2796	2644	2811	2798
Final Electricity per Capita (KWh/cap)	4657	5595	5266	4995	5139	5111
Import Dependency (%)	76.8	81.5	77.1	72.8	73.7	73.3
of Solid Fossil Fuels	61.3	70.3	92.8	75.4	84.6	78.0
of Hard Coal	71.5	79.1	95.7	79.6	89.0	80.9
of Oil and Petroleum Products	101.0	101.2	99.9	102.2	97.8	99.0
of Crude and NGL	100.6	100.1	99.3	99.5	99.9	99.5
of Natural Gas	101.6	101.4	99.4	96.9	101.3	101.4
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		8.43	13.81	16.23	17.56	17.45
RE-T – Renewable Energy in Transport		1.27	5.02	1.11	5.80	6.94
RES-E – Renewable Electricity Generation		19.13	29.78	36.95	36.40	35.16
RES-H&C – Renewable Heating & Cooling		9.39	12.56	16.89	17.62	17.48
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	320.8	381.0	296.0	285.8	291.6	287.5
GHG Emissions – National total*	398.4	455.0	371.3	352.5	357.4	352.2
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	135.4	154.7	126.2	119.8	121.5	119.7
Total GHG per Capita (t CO ₂ eq/cap)	9.8	10.5	8.0	7.6	7.7	7.5

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

5.12 France

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	129.7	136.3	137.0	141.2	131.9	138.0
Solid Fossil Fuels	2.5	0.4	0.2	0.0	0.0	0.0
of which Hard Coal	2.4	0.4	0.2	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	2.0	1.5	1.1	1.1	1.0	1.0
of which Crude Oil	1.7	1.3	0.9	0.9	0.8	0.8
Natural Gas	1.5	0.9	0.6	0.0	0.0	0.0
Nuclear	107.1	116.5	111.6	114.0	103.9	107.6
Renewables and Biofuels	15.7	16.0	22.2	24.4	25.4	27.6
Wastes, Non-Renewable	0.9	1.1	1.3	1.7	1.7	1.8
Net Imports	132.7	144.6	132.3	120.1	125.2	119.5
Solid Fossil Fuels	12.8	13.4	12.1	9.2	10.1	9.1
of which Hard Coal	12.3	12.7	11.2	8.8	9.7	8.7
Oil and Petroleum Products	90.0	95.8	83.2	81.8	80.2	76.9
of which Crude Oil and NGL	85.4	86.0	65.5	59.2	58.9	54.2
Natural Gas	35.8	40.7	39.6	34.5	37.7	38.5
Renewables and Biofuels	0.0	-0.1	0.2	0.1	0.6	0.4
Electricity	-6.0	-5.2	-2.6	-5.5	-3.5	-5.4
Gross Inland Consumption	256.1	277.2	269.7	260.2	255.7	254.7
Solid Fossil Fuels	14.9	14.2	12.0	9.3	9.9	9.0
of which Hard Coal	14.1	13.6	11.1	9.1	9.7	8.6
of which Brown Coal	0.1	0.0	0.0	0.1	0.0	0.0
Oil and Petroleum Products	87.6	93.7	82.6	81.2	79.2	76.9
of which Crude and NGL	86.8	87.6	66.7	59.9	59.3	55.5
Natural Gas	35.8	41.0	42.6	35.0	38.5	36.7
Nuclear	107.1	116.5	111.6	114.0	103.9	107.6
Renewables and Biofuels	15.7	15.9	22.3	24.4	26.0	28.0
Electricity	-6.0	-5.2	-2.6	-5.5	-3.5	-5.4
Waste, Non-Renewable	0.9	1.1	1.3	1.7	1.7	1.8
Available for Final Consumption	156.7	167.1	161.7	156.8	157.5	155.3
Final Non-Energy Consumption	16.3	16.1	13.9	14.0	14.2	13.4
Final Energy Consumption	145.8	150.7	146.3	140.1	141.7	139.8
by Fuel/Product						
Solid Fossil Fuels	2.3	2.0	1.8	1.1	1.1	1.2
Oil and Petroleum Products	68.2	65.4	58.4	56.8	55.9	54.3
Natural Gas	29.8	33.3	32.0	27.5	28.3	27.9
Renewables and Biofuels	9.0	9.4	12.9	13.4	14.4	14.4
Solid Biofuels and Renewable Waste	8.4	8.5	9.1	8.2	8.3	8.2
Solar Thermal	0.0	0.0	0.1	0.2	0.2	0.2
Geothermal	0.1	0.0	0.0	0.0	0.0	0.0
Liquid Biofuels	0.3	0.6	2.4	3.0	3.3	3.4
Biogases	0.1	0.1	0.1	0.2	0.2	0.2
Waste, Non-Renewable	0.2	0.1	0.1	0.4	0.4	0.5
Electricity	33.1	36.4	38.2	37.7	38.1	37.9
Heat	3.2	4.2	2.8	3.1	3.6	3.7
by Sector						
Industry	32.9	32.5	27.7	26.9	26.8	27.3
Transport	45.2	44.4	43.6	45.6	46.1	45.3
Residential	40.6	43.0	45.4	39.2	40.3	39.1
Services	18.7	21.0	24.1	23.1	23.6	23.3
Agriculture and Fishing	4.3	4.6	4.4	4.6	4.4	4.4
Others	4.1	5.3	1.0	0.7	0.5	0.5

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	114.5	115.7	124.1	132.2	133.1	133.5
Combustible Fuels	25.9	26.4	28.4	25.9	21.9	19.8
Nuclear	63.2	63.3	63.1	63.1	63.1	63.1
Hydro	25.2	25.1	25.4	25.6	25.7	25.8
Wind	0.0	0.7	5.9	10.3	13.5	14.9
Solar	0.0	0.0	1.0	7.1	8.6	9.6
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	578.8	561.2	581.3
Solid Fossil Fuels, Peat & Products, Oil Shale	27.0	27.5	23.4	11.9	12.8	8.4
Oil and Petroleum Products	7.2	7.9	5.5	6.7	7.0	6.0
Natural Gas	15.4	26.3	26.7	23.8	42.9	32.8
Nuclear	415.2	451.5	428.5	437.4	398.4	412.9
Renewables and Biofuels	74.2	61.2	83.0	96.8	97.8	118.7
Wastes non-RES	1.1	1.7	2.0	2.3	2.4	2.4
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			4.6	5.6	6.3	6.6
CHP Electricity Generation (TWh)			15.7	13.9	16.6	17.3
CHP in Total Electricity Generation (%)			2.8	2.5	3.0	3.0
CHP Heat Production (PJ)			173.9	154.9	177.6	176.4
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	44093	42923	40254	41576	41761	40888
of which LPG	245	153	126	89	70	64
of which Motor Gasoline	14459	11198	7713	7048	7441	7672
of which Gas/Diesel Oil	28237	30600	31532	32917	32601	31409
Final Consumption Biofuels	326	585	2420	2996	3335	3393
Pure and Blended Biogasoline	59	101	399	432	537	586
Pure and Blended Biodiesel	268	484	2021	2564	2798	2807
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	239.8	260.9	254.4	244.4	239.2	238.9
Final Energy Consumption 2020-2030 (Mtoe)	155.5	160.1	154.0	147.4	148.5	146.6
Primary Energy Intensity 2020-2030 (toe/M€'15)	130	130	122	111	105	103
Energy Intensity GAE/GDP2010 (toe/M€'15)	140	140	130	119	113	111
Energy per Capita – GIC/pop (kgoe/cap)	4229	4416	4171	3916	3827	3806
Final Electricity per Capita (KWh/cap)	6357	6735	6868	6594	6626	6579
Import Dependency (%)	51.2	51.7	48.7	45.9	48.6	46.6
of Solid Fossil Fuels	86.3	94.4	101.0	98.4	101.9	101.0
of Hard Coal	87.2	92.8	100.6	97.0	100.4	101.4
of Oil and Petroleum Products	99.5	99.5	98.0	98.7	99.2	97.7
of Crude and NGL	98.5	98.2	98.2	98.8	99.3	97.7
of Natural Gas	100.0	99.3	92.8	98.5	98.0	104.7
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		9.60	12.67	15.01	16.01	16.59
RE-T – Renewable Energy in Transport		2.06	6.50	8.35	8.83	9.05
RES-E – Renewable Electricity Generation		13.74	14.82	18.82	19.93	21.18
RES-H&C – Renewable Heating & Cooling		12.36	16.16	19.53	21.09	21.78
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	430.2	442.2	405.0	355.5	363.0	349.4
GHG Emissions – National total*	567.2	570.7	527.9	475.0	480.9	462.8
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	101.8	102.5	94.8	85.3	86.4	83.1
Total GHG per Capita (t CO ₂ eq/cap)	9.4	9.1	8.2	7.1	7.2	6.9

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

5.13 Croatia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	4.3	4.8	5.2	4.4	4.2	4.2
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	1.3	1.0	0.8	0.7	0.8	0.8
of which Crude Oil	1.3	1.0	0.8	0.7	0.8	0.8
Natural Gas	1.4	1.9	2.2	1.5	1.2	1.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	1.6	1.9	2.2	2.2	2.2	2.4
Wastes, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Net Imports	4.1	5.2	4.4	4.1	4.7	4.6
Solid Fossil Fuels	0.5	0.6	0.7	0.6	0.4	0.3
of which Hard Coal	0.4	0.6	0.6	0.6	0.4	0.3
Oil and Petroleum Products	2.4	3.6	3.0	2.6	2.7	2.8
of which Crude Oil and NGL	3.9	4.0	3.6	2.4	2.9	3.0
Natural gas	0.9	0.6	0.5	0.6	1.3	1.2
Renewables and Biofuels	0.0	0.0	-0.1	-0.3	-0.3	-0.2
Electricity	0.3	0.4	0.3	0.6	0.6	0.5
Gross Inland Consumption	8.4	9.8	9.5	8.5	8.9	8.7
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	3.5	3.4
of which Crude and NGL	5.5	5.1	4.4	3.0	3.6	3.7
Natural Gas	2.2	2.4	2.6	2.1	2.5	2.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	1.6	1.9	2.1	2.0	1.9	2.2
Electricity	0.3	0.4	0.3	0.6	0.6	0.5
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	7.2
Final Non-Energy Consumption	0.7	0.7	0.6	0.5	0.5	0.5
Final Energy Consumption	5.9	7.2	7.1	6.5	6.8	6.7
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	2.8	2.8
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	1.1
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	0.0	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	1.0	1.2	1.4	1.3	1.4	1.4
Heat	0.2	0.3	0.2	0.2	0.2	0.2
by Sector						
Industry	1.4	1.6	1.4	1.1	1.2	1.2
Transport	1.5	1.8	2.0	2.0	2.2	2.1
Residential	2.3	2.8	2.8	2.4	2.4	2.3
Services	0.5	0.7	0.8	0.7	0.8	0.8
Agriculture and Fishing	0.3	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	2017	2018
Installed Electricity Capacity (GW)	2.1	3.9	4.1	4.8	5.0	5.0
Combustible Fuels	0.0	1.8	1.9	2.1	2.1	2.1
Nuclear						
Hydro	2.1	2.1	2.1	2.2	2.2	2.2
Wind	0.0	0.0	0.1	0.4	0.6	0.6
Solar	0.0	0.0	0.0	0.0	0.1	0.1
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	11.3	13.2	14.9	11.4	12.0	13.6
Solid Fossil Fuels, Peat & Products, Oil Shale	1.6	2.3	2.4	2.3	1.4	1.5
Oil and Petroleum Products	1.7	1.9	0.6	0.2	0.2	0.1
Natural Gas	1.6	1.8	2.6	1.2	3.1	2.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	6.5	7.2	9.4	7.7	7.3	9.9
Wastes non-RES	0.0	0.0	0.0	0.0	0.0	0.0
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.7	0.6	0.8	0.9
CHP Electricity Generation (TWh)			2.0	0.8	2.0	2.0
CHP in Total Electricity Generation (%)			15.8	7.1	16.7	14.6
CHP Heat Production (PJ)			14.9	10.0	18.8	15.8
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 459	1 815	1 943	1 942	2 161	2 085
of which LPG	11	25	66	75	79	79
of which Motor Gasoline	815	739	678	554	535	520
of which Gas/Diesel Oil	623	1 038	1 186	1 303	1 537	1 476
Final Consumption Biofuels	0	0	3	24	0	27
Pure and Blended Biogasoline	0	0	0	0	0	0
Pure and Blended Biodiesel	0	0	3	24	0	27
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	7.8	9.1	8.9	8.0	8.3	8.2
Final Energy Consumption 2020-2030 (Mtoe)	6.0	7.2	7.2	6.6	6.9	6.9
Primary Energy Intensity 2020-2030 (toe/M€'15)	222	209	197	178	175	167
Energy Intensity GAE/GDP2010 (toe/M€'15)	241	225	211	191	187	178
Energy per Capita – GIC/pop (kgoe/cap)	1 877	2 278	2 201	2 012	2 138	2 114
Final Electricity per Capita (KWh/cap)	2 631	3 344	3 686	3 631	3 846	3 940
Import Dependency (%)	48.5	52.6	46.7	48.8	53.1	52.7
of Solid Fossil Fuels	110.9	91.3	102.5	103.0	100.7	91.3
of Hard Coal	112.8	90.6	102.7	102.4	100.9	90.6
of Oil and Petroleum Products	61.0	79.4	80.6	81.4	77.1	82.1
of Crude and NGL	72.1	78.9	82.3	79.6	79.3	81.2
of Natural Gas	41.0	23.7	18.1	27.1	53.8	53.3
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		23.69	25.10	28.97	27.28	28.02
RE-T – Renewable Energy in Transport		1.02	1.13	3.63	1.18	3.89
RES-E – Renewable Electricity Generation		35.18	37.52	45.41	46.44	48.14
RES-H&C – Renewable Heating & Cooling		30.03	32.80	38.54	36.55	36.51
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	19.9	23.6	21.3	18.2	19.2	18.3
GHG Emissions – National total*	25.9	30.2	28.3	24.5	25.5	24.4
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	80.0	93.2	87.5	75.6	78.7	75.2
Total GHG per Capita (t CO ₂ eq/cap)	5.8	7.0	6.6	5.8	6.1	5.9

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

5.14 Italy

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	28.3	30.3	32.9	36.1	36.7	37.3
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	4.9	6.3	5.6	5.8	4.5	5.1
of which Crude Oil	4.6	6.1	5.1	5.5	4.1	4.7
Natural Gas	13.6	9.9	6.9	5.5	4.5	4.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	9.6	13.3	19.4	23.6	26.5	26.7
Wastes, Non-Renewable	0.3	0.7	1.0	1.1	1.1	1.1
Net Imports	152.4	159.8	148.5	121.4	124.6	121.9
Solid Fossil Fuels	13.1	16.4	13.8	12.3	9.4	8.6
of which Hard Coal	12.9	15.9	13.8	11.9	9.1	8.4
Oil and Petroleum Products	88.0	78.5	66.8	52.4	52.8	51.6
of which Crude Oil and NGL	83.6	88.5	78.2	61.7	65.7	61.6
Natural gas	47.0	59.8	61.6	50.0	56.8	55.3
Renewables and Biofuels	0.5	0.8	2.5	2.7	2.3	2.6
Electricity	3.8	4.2	3.8	4.0	3.2	3.8
Gross Inland Consumption	174.5	189.4	176.8	155.7	159.5	157.0
Solid Fossil Fuels	12.6	16.5	13.7	12.3	9.3	8.5
of which Hard Coal	12.2	16.0	13.6	11.8	9.1	8.3
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	55.4	54.7
of which Crude and NGL	87.9	94.1	82.8	67.0	70.1	67.0
Natural Gas	57.9	70.7	68.1	55.3	61.5	59.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	10.1	14.1	21.9	26.3	28.8	29.3
Electricity	3.8	4.2	3.8	4.0	3.2	3.8
Waste, Non-Renewable	0.3	0.7	1.0	1.1	1.1	1.1
Available for Final Consumption	128.8	139.6	131.7	117.6	121.2	120.0
Final Non-Energy Consumption	8.4	8.6	9.6	6.6	7.9	7.2
Final Energy Consumption	119.7	131.5	123.1	112.1	113.6	114.4
by Fuel/Product						
Solid Fossil Fuels	1.5	1.3	0.6	0.5	0.5	0.6
Oil and Petroleum Products	55.0	56.0	45.6	41.2	38.3	39.4
Natural Gas	37.6	40.6	38.5	33.0	33.9	33.6
Renewables and Biofuels	1.7	4.5	9.1	8.4	11.3	11.0
Solid Biofuels and Renewable Waste	1.5	4.1	7.4	6.8	7.2	6.7
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	1.1	1.2
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, Non-Renewable	0.1	0.1	0.2	0.3	0.2	0.3
Electricity	23.5	25.9	25.7	24.7	25.1	25.2
Heat	0.0	3.1	3.3	3.9	4.1	4.2
by Sector						
Industry	37.6	37.2	29.0	24.9	24.9	24.3
Transport	39.7	41.8	38.6	36.4	34.5	35.6
Residential	27.6	33.9	35.4	32.5	32.9	32.1
Services	11.5	15.1	17.0	15.4	18.2	19.3
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	0.1

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	75.5	85.5	106.6	117.0	114.2	115.2
Combustible Fuels	54.0	61.9	74.7	65.6	61.3	61.3
Nuclear						
Hydro	20.3	21.0	21.5	22.2	22.4	22.5
Wind	0.4	1.6	5.8	9.1	9.7	10.2
Solar	0.0	0.0	3.6	18.9	19.7	20.1
Geothermal	0.6	0.7	0.7	0.8	0.8	0.8
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	275.9	302.6	301.3	282.4	295.2	289.1
Solid Fossil Fuels, Peat & Products, Oil Shale	26.3	43.6	39.7	43.2	32.6	28.5
Oil and Petroleum Products	85.9	47.1	21.7	13.4	11.5	11.0
Natural Gas	105.6	155.1	157.4	113.0	142.8	131.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	57.6	55.3	80.3	110.3	105.7	116.1
Wastes non-RES	0.5	1.5	2.1	2.4	2.5	2.5
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			7.4	9.0	8.4	
CHP Electricity Generation (TWh)			34.7	39.5	41.0	
CHP in Total Electricity Generation (%)			11.5	14.0	13.8	
CHP Heat Production (PJ)			202.5	213.2	219.9	
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	38633	40430	35534	33187	31421	32244
of which LPG	1562	1131	1334	1817	1832	1773
of which Motor Gasoline	17556	14175	10276	8192	7433	7640
of which Gas/Diesel Oil	18415	23793	22703	22090	20987	21607
Final Consumption Biofuels	0	177	1419	1167	1062	1250
Pure and Blended Biogasoline	0	0	122	25	33	33
Pure and Blended Biodiesel	0	177	1297	1142	1029	1217
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	166.1	180.8	167.3	149.1	148.9	147.2
Final Energy Consumption 2020-2030 (Mtoe)	124.8	137.2	128.5	116.2	115.2	116.5
Primary Energy Intensity 2020-2030 (toe/M€'15)	100	104	98	90	87	86
Energy Intensity GAE/GDP2010 (toe/M€'15)	106	110	105	95	95	93
Energy per Capita – GIC/pop (kgoe/cap)	3066	3273	2988	2562	2633	2596
Final Electricity per Capita (KWh/cap)	4795	5199	5057	4729	4819	4846
Import Dependency (%)	86.5	83.3	82.6	77.0	77.0	76.3
of Solid Fossil Fuels	104.6	99.4	100.8	100.2	100.2	101.0
of Hard Coal	105.7	99.7	101.4	100.5	100.2	101.1
of Oil and Petroleum Products	96.1	91.8	93.6	89.4	91.5	89.8
of Crude and NGL	95.1	94.0	94.5	92.2	93.6	91.9
of Natural Gas	81.1	84.7	90.5	90.4	92.3	92.9
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		7.55	13.02	17.53	18.27	17.78
RE-T – Renewable Energy in Transport		1.05	4.85	6.51	6.48	7.66
RES-E – Renewable Electricity Generation		16.29	20.09	33.46	34.10	33.93
RES-H&C – Renewable Heating & Cooling		8.22	15.64	19.26	20.08	19.23
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	476.4	508.5	442.5	369.7	362.6	359.7
GHG Emissions – National total*	560.5	595.1	522.6	449.1	442.6	439.3
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	107.7	114.4	100.4	86.3	85.0	84.4
Total GHG per Capita (t CO ₂ eq/cap)	9.8	10.3	8.8	7.4	7.3	7.3

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

5.15 Cyprus

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
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	0.1	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	2.7
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
Oil and Petroleum Products	2.5	2.8	2.9	2.4	2.6	2.6
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	0.0
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	2.6
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	2.4	2.4
of which Crude 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	0.2
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	1.6	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	1.6
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	0.1	0.2
Solid Biofuels and Renewable Waste	0.0	0.0	0.0	0.0	0.0	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	0.7
Residential	0.2	0.3	0.3	0.3	0.3	0.3
Services	0.1	0.2	0.2	0.2	0.2	0.3
Agriculture and Fishing	0.0	0.0	0.0	0.0	0.0	0.0
Others	0.1	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)						
Combustible Fuels	1.0	1.1	1.6	1.8	1.8	1.8
Nuclear						
Hydro						
Wind	0.0	0.0	0.1	0.2	0.2	0.2
Solar	0.0	0.0	0.0	0.1	0.1	0.1
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & 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	4.6
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	0.4	0.5
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	0.1
CHP in Total Electricity Generation (%)			1.0	0.1	0.6	1.1
CHP Heat Production (PJ)			0.1	0.2	0.1	0.6
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	577	676	750	612	666	670
of which LPG	0	0	0	0	0	0
of which Motor Gasoline	218	321	413	365	371	361
of which Gas/Diesel Oil	359	355	338	247	293	306
Final Consumption Biofuels	0	0	15	10	9	9
Pure and Blended Biogasoline	0	0	0	0	0	0
Pure and Blended Biodiesel	0	0	15	10	9	9
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	2.3	2.5	2.7	2.3	2.5	2.5
Final Energy Consumption 2020-2030 (Mtoe)	1.6	1.8	1.9	1.7	1.9	1.9
Primary Energy Intensity 2020-2030 (toe/M€'15)	167	146	138	128	128	123
Energy Intensity GAE/GDP2010 (toe/M€'15)	187	167	152	143	142	140
Energy per Capita – GIC/pop (kgoe/cap)	3511	3476	3370	2715	3011	3047
Final Electricity per Capita (KWh/cap)	4339	5402	5960	4830	5313	5397
Import Dependency (%)						
of Solid Fossil Fuels	102.0	121.1	65.6	100.0	326.4	97.5
of Hard Coal	102.0	121.2	65.4	100.0	326.4	97.5
of Oil and Petroleum Products	100.3	102.3	104.2	102.8	100.9	99.2
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 RES (with aviation cap)		3.13	6.17	9.93	10.49	13.88
RE-T – Renewable Energy in Transport		0.00	1.99	2.52	2.59	2.69
RES-E – Renewable Electricity Generation		0.02	1.39	8.45	8.91	9.36
RES-H&C – Renewable Heating & Cooling		9.97	18.84	24.13	26.13	36.76
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	8.0	8.9	8.9	7.7	8.5	8.4
GHG Emissions – National total*	9.3	10.2	10.4	9.1	10.0	9.9
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	144.9	159.6	161.5	142.0	155.8	153.8
Total GHG per Capita (t CO ₂ eq/cap)	13.5	14.0	12.6	10.7	11.7	11.4

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

5.16 Latvia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	1.4	1.9	2.0	2.3	2.6	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
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	2.6	2.9
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	2.1	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	1.6
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	1.0	1.2
Renewables and Biofuels	-0.2	-0.4	-0.6	-0.7	-0.8	-0.8
Electricity	0.2	0.2	0.1	0.2	0.0	0.1
Gross Inland Consumption	3.9	4.6	4.6	4.4	4.6	4.8
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	1.6	1.6
of which Crude and NGL	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	1.1	1.4	1.5	1.1	1.0	1.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	1.2	1.5	1.4	1.5	1.9	1.9
Electricity	0.2	0.2	0.1	0.2	0.0	0.1
Waste, Non-Renewable	0.0	0.0	0.0	0.1	0.0	0.0
Available for Final Consumption	3.3	4.0	4.1	3.8	3.9	4.1
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	4.0
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	1.1
Solid Biofuels and Renewable Waste	0.8	1.0	0.9	0.9	1.0	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	0.0	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	0.0
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	0.8	0.9
Transport	0.7	1.0	1.1	1.0	1.1	1.1
Residential	1.3	1.5	1.4	1.1	1.2	1.2
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	2017	2018
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						
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						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	4.1	4.9	6.6	5.5	7.5	6.7
Solid Fossil Fuels, Peat & 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	2.1	3.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	2.8	3.4	3.6	2.8	5.5	3.5
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	2.8	3.1
CHP in Total Electricity Generation (%)			45.0	44.7	37.7	45.7
CHP Heat Production (PJ)			10.4	12.4	14.2	15.1
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	707	991	1046	1006	1063	1062
of which LPG	21	26	24	64	58	55
of which Motor Gasoline	347	352	294	205	192	184
of which Gas/Diesel Oil	340	613	728	737	811	822
Final Consumption Biofuels	0	3	27	23	9	38
Pure and Blended Biogasoline	0	0	8	8	8	8
Pure and Blended Biodiesel	0	3	19	15	1	29
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	3.8	4.5	4.6	4.3	4.5	4.7
Final Energy Consumption 2020-2030 (Mtoe)	3.3	4.0	4.1	3.8	4.0	4.2
Primary Energy Intensity 2020-2030 (toe/M€'15)	267	214	222	175	173	174
Energy Intensity GAE/GDP2010 (toe/M€'15)	273	231	238	190	186	180
Energy per Capita – GIC/pop (kgoe/cap)	1623	2040	2183	2205	2334	2478
Final Electricity per Capita (KWh/cap)	1880	2547	2931	3253	3325	3444
Import Dependency (%)	61.0	63.8	45.5	51.2	44.1	44.3
of Solid Fossil Fuels	84.1	97.7	106.5	85.2	88.5	91.3
of Hard Coal	82.5	96.7	106.6	85.2	88.5	91.3
of Oil and Petroleum Products	94.9	102.2	94.4	102.9	100.1	98.1
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	102.0	98.8
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		32.26	30.38	37.54	39.02	40.29
RE-T – Renewable Energy in Transport		2.39	3.98	3.92	2.56	4.73
RES-E – Renewable Electricity Generation		43.02	42.05	52.21	54.35	53.50
RES-H&C – Renewable Heating & Cooling		42.68	40.75	51.74	54.60	55.89
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	7.2	8.0	8.9	7.6	7.7	8.3
GHG Emissions – National total*	10.6	11.6	12.6	11.5	11.7	12.2
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	40.0	43.7	47.6	43.4	43.9	45.9
Total GHG per Capita (t CO ₂ eq/cap)	4.5	5.2	6.0	5.8	6.0	6.3

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

5.17 Lithuania

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	3.5	4.1	1.6	1.9	2.1	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	0.1	0.1
of which Crude Oil	0.3	0.2	0.1	0.1	0.1	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	1.6
Wastes, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Net Imports	4.3	5.0	5.7	5.5	5.7	5.9
Solid Fossil Fuels	0.1	0.2	0.2	0.1	0.2	0.2
of which Hard Coal	0.0	0.0	0.1	0.1	0.2	0.2
Oil and Petroleum Products	2.3	2.6	2.7	2.7	2.9	3.2
of which Crude Oil and NGL	4.6	8.9	9.1	8.7	9.9	9.7
Natural gas	2.1	2.5	2.5	2.1	1.9	1.8
Renewables and Biofuels	0.0	0.0	-0.1	-0.1	-0.1	-0.1
Electricity	-0.1	-0.3	0.5	0.6	0.7	0.8
Gross Inland Consumption	7.3	9.0	7.1	7.2	7.7	7.8
Solid Fossil Fuels	0.1	0.2	0.2	0.2	0.2	0.2
of which Hard Coal	0.0	0.0	0.1	0.2	0.1	0.2
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	2.9	3.1
of which Crude and NGL	4.9	9.4	9.2	8.7	9.9	9.8
Natural Gas	2.1	2.5	2.5	2.1	1.9	1.8
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	1.6
Electricity	-0.1	-0.3	0.5	0.6	0.7	0.8
Waste, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Available for Final Consumption	4.3	5.3	5.4	5.9	6.4	6.6
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	5.2	5.4
by Fuel/Product						
Solid Fossil Fuels	0.1	0.2	0.2	0.2	0.2	0.2
Oil and Petroleum Products	1.3	1.6	1.6	1.8	2.0	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	0.7
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	0.9	0.9
by Sector						
Industry	0.8	1.1	0.9	1.0	1.1	1.1
Transport	1.0	1.4	1.5	1.8	2.0	2.1
Residential	1.4	1.5	1.6	1.4	1.5	1.5
Services	0.5	0.6	0.6	0.6	0.6	0.7
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	2017	2018
Installed Electricity Capacity (GW)						
Combustible Fuels	5.7	4.6	3.6	3.6	3.3	3.4
Nuclear	2.5	2.5	2.5	2.2	1.8	1.8
Hydro	2.4	1.2	0.0	0.0	0.0	0.0
Wind	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	0.1
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	11.3	14.6	5.5	4.7	3.9	3.3
Oil and Petroleum Products	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	0.7	0.4	0.6	0.3	0.1	0.1
Nuclear	1.6	3.0	3.2	2.0	0.6	0.3
Renewables and Biofuels	8.4	10.3	0.0	0.0	0.0	0.0
Wastes non-RES	0.6	0.8	1.7	2.4	3.1	2.7
	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	0.9
CHP in Total Electricity Generation (%)			34.6	31.3	26.2	26.3
CHP Heat Production (PJ)			19.3	12.4	10.4	10.2
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 026	1 359	1 421	1 647	1 848	1 970
of which LPG	120	229	174	133	116	109
of which Motor Gasoline	390	351	296	200	212	232
of which Gas/Diesel Oil	513	779	951	1 313	1 519	1 628
Final Consumption Biofuels	0	3	45	68	72	78
Pure and Blended Biogasoline	0	1	10	10	8	8
Pure and Blended Biodiesel	0	3	34	58	63	70
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	6.5	8.0	6.2	5.8	6.2	6.3
Final Energy Consumption 2020-2030 (Mtoe)	3.8	4.7	4.8	4.9	5.3	5.5
Primary Energy Intensity 2020-2030 (toe/M€'15)	322	275	199	155	154	153
Energy Intensity GAE/GDP2010 (toe/M€'15)	367	312	233	195	197	193
Energy per Capita – GIC/pop (kgoe/cap)	2 093	2 677	2 254	2 459	2 702	2 775
Final Electricity per Capita (KWh/cap)	1 764	2 377	2 652	3 198	3 532	3 702
Import Dependency (%)						
of Solid Fossil Fuels	57.8	55.3	79.0	75.5	72.0	74.2
of Hard Coal	101.7	101.0	95.7	90.6	107.8	99.0
of Oil and Petroleum Products	100.0	100.0	109.7	90.1	109.0	98.8
of Crude and NGL	101.0	93.4	98.7	100.7	95.0	98.4
of Natural Gas	94.5	95.3	99.0	99.5	99.5	99.2
	100.0	100.7	99.7	99.7	99.3	98.9
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		16.77	19.64	25.75	26.04	24.45
RE-T – Renewable Energy in Transport		0.62	3.77	4.57	4.29	4.33
RES-E – Renewable Electricity Generation		3.83	7.40	15.55	18.26	18.41
RES-H&C – Renewable Heating & Cooling		29.32	32.54	46.09	46.50	45.63
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	11.9	14.2	14.1	13.5	13.9	14.0
GHG Emissions – National total*	19.6	22.9	21.0	20.6	20.9	20.6
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	40.5	47.4	43.4	42.6	43.2	42.6
Total GHG per Capita (t CO ₂ eq/cap)	5.6	6.8	6.7	7.1	7.4	7.4

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

5.18 Luxembourg

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	0.1	0.1	0.1	0.2	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	0.1	0.1	0.1	0.1	0.2
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	4.1	4.3
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	2.7	2.9
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	0.7
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	4.3	4.5
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	2.8	2.9
of which Crude 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	0.7
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	0.3
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	3.6	3.8
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	3.6	3.7
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	2.1	2.3
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	0.5	0.6
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	2.0	2.1
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	2017	2018
Installed Electricity Capacity (GW)						
Combustible Fuels	0.1	0.5	0.5	0.5	0.1	0.1
Nuclear						
Hydro	1.1	1.1	1.1	1.3	1.3	1.3
Wind	0.0	0.0	0.0	0.1	0.1	0.1
Solar	0.0	0.0	0.0	0.1	0.1	0.1
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & 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	1.9	1.9
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	0.3	0.4
CHP in Total Electricity Generation (%)			9.6	12.7	15.5	16.6
CHP Heat Production (PJ)			3.2	2.4	2.6	2.9
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 588	2 341	2 124	1 863	1 842	1 967
of which LPG	2	2	1	1	1	0
of which Motor Gasoline	595	514	362	293	301	328
of which Gas/Diesel Oil	990	1 824	1 760	1 570	1 541	1 638
Final Consumption Biofuels	0	1	42	83	113	123
Pure and Blended Biogasoline	0	0	1	7	7	10
Pure and Blended Biodiesel	0	0	41	76	107	113
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	3.6	4.8	4.6	4.1	4.3	4.5
Final Energy Consumption 2020-2030 (Mtoe)	3.5	4.5	4.3	4.0	4.2	4.3
Primary Energy Intensity 2020-2030 (toe/M€'15)	104	119	102	80	77	78
Energy Intensity GAE/GDP2010 (toe/M€'15)	106	120	103	80	78	79
Energy per Capita – GIC/pop (kgoe/cap)	8 433	10 411	9 254	7 425	7 332	7 490
Final Electricity per Capita (KWh/cap)	13 319	13 340	13 132	11 056	10 826	10 671
Import Dependency (%)						
of Solid Fossil Fuels	100.0	100.0	100.0	100.0	100.0	100.0
of Hard Coal	100.0	100.0	100.0	100.0	100.0	100.0
of Oil and Petroleum Products	102.1	99.4	99.3	99.3	99.7	99.7
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 RES (with aviation cap)		1.40	2.86	5.05	6.29	9.06
RE-T – Renewable Energy in Transport		0.15	2.08	6.66	6.44	6.54
RES-E – Renewable Electricity Generation		3.18	3.79	6.20	8.06	9.13
RES-H&C – Renewable Heating & Cooling		3.62	4.75	7.08	7.78	8.78
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	9.7	13.4	12.5	10.7	10.9	11.4
GHG Emissions – National total*	10.6	14.3	13.4	11.6	11.9	12.4
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	80.9	108.8	102.4	88.7	90.9	94.2
Total GHG per Capita (t CO ₂ eq/cap)	24.5	31.0	26.8	20.7	20.2	20.5

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

5.19 Hungary

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	11.6	10.9	11.7	11.1	11.2	10.9
Solid Fossil Fuels	2.9	1.7	1.6	1.5	1.3	1.1
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	1.3	1.1
Oil and Petroleum Products	1.7	1.5	1.1	0.9	1.1	1.1
of which Crude Oil	1.7	1.4	1.1	0.9	1.0	1.1
Natural Gas	2.5	2.3	2.2	1.4	1.4	1.5
Nuclear	3.7	3.6	4.0	4.0	4.1	4.0
Renewables and Biofuels	0.8	1.7	2.7	3.2	3.2	3.0
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	16.7	15.5
Solid Fossil Fuels	1.1	1.3	1.1	0.8	1.0	1.0
of which Hard Coal	0.9	1.0	1.3	1.0	1.1	1.1
Oil and Petroleum Products	5.2	6.1	5.8	6.6	6.6	7.0
of which Crude Oil and NGL	5.8	6.2	5.8	6.2	5.8	6.3
Natural gas	7.3	9.8	7.7	5.2	8.2	6.4
Renewables and Biofuels	0.0	0.0	0.0	-0.2	-0.2	-0.2
Electricity	0.3	0.5	0.4	1.2	1.1	1.2
Gross Inland Consumption	25.2	28.5	26.6	25.2	26.7	26.7
Solid Fossil Fuels	3.8	3.1	2.7	2.4	2.2	2.1
of which Hard Coal	0.9	0.9	1.3	1.0	1.1	1.1
of which Brown Coal	3.0	2.1	1.7	1.6	1.4	1.2
Oil and Petroleum Products	6.9	7.4	6.8	7.0	7.6	8.1
of which Crude and NGL	7.4	7.6	6.8	6.8	6.7	7.3
Natural Gas	9.7	12.1	9.8	7.5	8.5	8.3
Nuclear	3.7	3.6	4.0	4.0	4.1	4.0
Renewables and Biofuels	0.8	1.7	2.8	3.0	3.0	2.8
Electricity	0.3	0.5	0.4	1.2	1.1	1.2
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	19.9	19.9
Final Non-Energy Consumption	1.6	2.2	2.0	1.9	2.2	2.2
Final Energy Consumption	15.6	18.2	16.9	16.8	17.9	17.9
by Fuel/Product						
Solid Fossil Fuels	0.4	0.5	0.2	0.2	0.3	0.2
Oil and Petroleum Products	4.0	4.6	4.4	5.0	5.3	5.7
Natural Gas	6.4	7.7	6.1	5.3	5.7	5.6
Renewables and Biofuels	0.8	1.2	2.0	2.2	2.1	1.9
Solid Biofuels and Renewable Waste	0.7	1.1	1.7	1.9	1.8	1.6
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	0.2
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, Non-Renewable	0.0	0.0	0.0	0.1	0.1	0.1
Electricity	2.5	2.8	2.9	3.1	3.3	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	4.3	4.5
Transport	3.1	4.0	4.1	4.2	4.5	4.8
Residential	5.6	7.0	6.6	6.0	6.3	5.8
Services	3.0	3.5	3.0	2.2	2.2	2.1
Agriculture and Fishing	0.7	0.6	0.5	0.6	0.6	0.6
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	8.3	8.6	9.0	8.6	8.9	9.2
Combustible Fuels	6.4	6.7	6.6	6.1	6.1	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	0.3	0.7
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	35.2	35.8	37.4	30.3	32.8	31.9
Solid Fossil Fuels, Peat & Products, Oil Shale	9.6	7.0	6.2	5.8	4.9	4.7
Oil and Petroleum Products	4.4	0.5	0.5	0.1	0.1	0.1
Natural Gas	6.7	12.5	11.7	5.2	8.0	7.4
Nuclear	14.2	13.8	15.8	15.8	16.1	15.7
Renewables and Biofuels	0.2	1.9	3.0	3.2	3.5	3.8
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	1.5
CHP Electricity Generation (TWh)			7.3	4.1	4.6	4.3
CHP in Total Electricity Generation (%)			19.6	13.5	14.1	13.4
CHP Heat Production (PJ)			42.2	24.4	25.2	24.7
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	2 971	3 932	3 791	3 873	4 199	4 435
of which LPG	0	33	29	30	26	23
of which Motor Gasoline	1 414	1 568	1 348	1 283	1 368	1 418
of which Gas/Diesel Oil	1 557	2 328	2 414	2 559	2 804	2 994
Final Consumption Biofuels	0	3	175	175	165	193
Pure and Blended Biogasoline	0	3	57	43	46	50
Pure and Blended Biodiesel	0	0	118	133	118	143
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	23.6	26.3	24.6	23.3	24.5	24.5
Final Energy Consumption 2020-2030 (Mtoe)	16.2	18.7	17.5	17.4	18.5	18.5
Primary Energy Intensity 2020-2030 (toe/M€'15)	286	257	243	208	205	195
Energy Intensity GAE/GDP2010 (toe/M€'15)	305	278	262	225	223	212
Energy per Capita – GIC/pop (kgoe/cap)	2 468	2 823	2 655	2 557	2 725	2 732
Final Electricity per Capita (KWh/cap)	2 880	3 203	3 416	3 682	3 929	4 032
Import Dependency (%)	55.0	62.3	56.9	53.9	62.5	58.1
of Solid Fossil Fuels	28.1	42.5	41.9	33.7	44.1	48.1
of Hard Coal	96.4	108.3	99.2	99.2	101.7	102.7
of Oil and Petroleum Products	75.9	82.0	85.3	93.7	86.6	85.9
of Crude and NGL	78.5	81.8	85.3	91.4	86.0	86.3
of Natural Gas	75.4	81.1	78.7	69.7	96.2	77.9
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		6.93	12.74	14.50	13.52	12.49
RE-T – Renewable Energy in Transport		0.91	6.07	7.08	7.62	7.68
RES-E – Renewable Electricity Generation		4.42	7.10	7.34	7.52	8.29
RES-H&C – Renewable Heating & Cooling		9.94	18.08	21.34	19.86	18.12
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	59.3	61.4	52.8	47.2	50.4	50.5
GHG Emissions – National total*	74.0	76.2	65.6	61.4	64.5	64.1
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	78.3	80.7	69.4	65.0	68.2	67.8
Total GHG per Capita (t CO ₂ eq/cap)	7.2	7.5	6.5	6.2	6.6	6.6

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

5.20 Malta

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
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	3.0	3.0
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
Oil and Petroleum Products	1.5	1.6	2.4	2.1	2.7	2.6
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	0.1
Gross Inland Consumption	0.8	0.9	0.9	0.8	0.8	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	0.5
of which Crude and NGL	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	0.0	0.0	0.0	0.0	0.2	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	0.0
Electricity	0.0	0.0	0.0	0.1	0.1	0.1
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	0.5	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	2017	2018
Installed Electricity Capacity (GW)						
Combustible Fuels	0.0	0.0	0.6	0.7	0.7	0.7
Nuclear						
Hydro						
Wind	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.1	0.1	0.1
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & 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	0.2	0.0
Natural Gas	0.0	0.0	0.0	0.0	1.3	1.7
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	12.6	8.2
CHP Heat Production (PJ)			0.0	0.0	0.1	0.1
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	153	165	185	193	200	221
of which LPG	0	0	0	0	1	1
of which Motor Gasoline	75	67	74	78	79	80
of which Gas/Diesel Oil	78	94	108	114	119	140
Final Consumption Biofuels	0	0	1	7	7	10
Pure and Blended Biogasoline	0	0	0	0	0	0
Pure and Blended Biodiesel	0	0	1	7	7	10
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	0.8	0.9	0.9	0.8	0.8	0.8
Final Energy Consumption 2020-2030 (Mtoe)	0.4	0.5	0.5	0.6	0.6	0.7
Primary Energy Intensity 2020-2030 (toe/M€'15)	135	138	127	78	74	71
Energy Intensity GAE/GDP2010 (toe/M€'15)	246	241	327	238	269	262
Energy per Capita – GIC/pop (kgoe/cap)	2080	2324	2266	1724	1797	1775
Final Electricity per Capita (KWh/cap)	4031	4614	4406	4808	5039	5024
Import Dependency (%)						
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	100.2	100.0	99.2	97.9	104.2	97.4
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	105.2	109.5
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		0.12	0.98	5.12	7.27	7.98
RE-T – Renewable Energy in Transport		0.00	0.00	4.68	6.81	7.97
RES-E – Renewable Electricity Generation		0.00	0.03	4.31	6.84	7.69
RES-H&C – Renewable Heating & Cooling		1.03	7.28	14.64	19.61	23.37
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	2.9	2.9	2.9	2.1	2.0	2.0
GHG Emissions – National total*	3.1	3.2	3.3	2.6	2.6	2.7
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	112.6	117.0	118.8	94.2	93.5	96.1
Total GHG per Capita (t CO ₂ eq/cap)	8.0	8.0	7.9	5.9	5.6	5.6

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

5.21 Netherlands

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	58.8	62.7	71.4	48.4	42.2	37.0
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	3.0	2.8	2.0	2.5	2.0	1.9
of which Crude Oil	2.4	2.3	1.5	1.8	1.2	1.1
Natural Gas	52.8	56.2	64.7	39.4	33.1	27.8
Nuclear	1.0	1.0	0.9	0.9	0.8	0.8
Renewables and Biofuels	1.4	2.0	3.1	4.8	5.5	5.7
Wastes, Non-Renewable	0.6	0.7	0.7	0.6	0.7	0.7
Net Imports	35.0	37.5	28.3	42.7	46.9	53.2
Solid Fossil Fuels	7.7	8.2	7.6	10.5	9.2	8.2
of which Hard Coal	7.7	8.2	7.5	10.6	9.3	8.2
Oil and Petroleum Products	42.9	48.4	44.5	42.9	39.8	40.4
of which Crude Oil and NGL	60.7	61.4	60.4	60.0	60.7	61.3
Natural gas	-17.2	-20.9	-24.2	-10.5	-1.4	4.6
Renewables and Biofuels	-0.1	0.3	0.1	-1.1	-1.2	-0.9
Electricity	1.6	1.6	0.2	0.8	0.3	0.7
Gross Inland Consumption	78.3	83.7	86.2	76.2	79.0	77.9
Solid Fossil Fuels	7.8	8.1	7.5	10.9	9.1	8.2
of which Hard Coal	7.8	8.2	7.4	11.0	9.2	8.3
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	30.4	32.5	31.8
of which Crude and NGL	62.8	63.5	61.9	61.2	62.2	62.4
Natural Gas	35.0	35.3	40.1	28.6	31.0	30.7
Nuclear	1.0	1.0	0.9	0.9	0.8	0.8
Renewables and Biofuels	1.3	2.3	3.3	3.7	4.2	4.6
Electricity	1.6	1.6	0.2	0.8	0.3	0.7
Waste, Non-Renewable	0.6	0.7	0.7	0.8	0.9	0.9
Available for Final Consumption	58.8	62.1	64.8	55.2	58.1	57.9
Final Non-Energy Consumption	11.3	13.6	14.4	12.2	13.5	12.8
Final Energy Consumption	47.5	49.0	50.8	44.0	44.9	44.9
by Fuel/Product						
Solid Fossil Fuels	0.1	0.1	0.1	0.1	0.1	0.1
Oil and Petroleum Products	14.0	14.9	15.3	13.7	14.1	14.1
Natural Gas	20.7	20.0	21.6	17.2	17.5	17.1
Renewables and Biofuels	0.5	0.6	1.0	1.3	1.4	1.8
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	0.3	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	9.2	9.3
Heat	3.7	3.8	3.0	2.2	2.1	2.0
by Sector						
Industry	15.2	15.6	14.4	13.4	13.9	13.7
Transport	10.6	11.4	11.7	10.4	10.6	10.8
Residential	10.8	10.7	12.5	9.5	9.6	9.6
Services	6.2	6.9	7.8	6.8	6.9	6.9
Agriculture and Fishing	4.5	4.2	4.2	3.8	3.8	3.8
Others	0.1	0.1	0.1	0.1	0.1	0.1

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	21.1	21.8	26.7	33.9	33.8	35.0
Combustible Fuels	20.1	20.0	23.7	28.4	26.2	25.5
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	4.2	4.4
Solar	0.0	0.1	0.1	1.5	2.9	4.5
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	89.4	99.7	119.1	110.2	117.1	114.4
Solid Fossil Fuels, Peat & Products, Oil Shale	24.3	23.5	22.6	39.4	31.3	27.5
Oil and Petroleum Products	2.6	2.3	1.3	1.3	1.2	1.3
Natural Gas	54.4	61.0	78.5	50.1	62.1	61.2
Nuclear	3.9	4.0	4.0	4.1	3.4	3.5
Renewables and Biofuels	3.0	7.4	11.2	13.7	17.4	18.9
Wastes non-RES	1.2	1.4	1.6	1.6	1.7	2.0
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			9.3	9.2	9.4	8.8
CHP Electricity Generation (TWh)			39.2	29.8	31.4	31.2
CHP in Total Electricity Generation (%)			33.2	27.1	26.8	27.2
CHP Heat Production (PJ)			233.6	189.6	180.5	173.8
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	10501	11239	11268	9897	10079	10085
of which LPG	602	448	343	192	163	148
of which Motor Gasoline	3964	4039	4048	3783	3967	4004
of which Gas/Diesel Oil	5916	6738	6863	5911	5938	5921
Final Consumption Biofuels	0	0	229	298	307	502
Pure and Blended Biogasoline	0	0	134	142	129	170
Pure and Blended Biodiesel	0	0	95	156	178	332
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	66.9	70.1	71.7	63.8	65.1	64.7
Final Energy Consumption 2020-2030 (Mtoe)	52.1	54.1	55.3	49.1	50.3	50.3
Primary Energy Intensity 2020-2030 (toe/M€'15)	115	113	108	92	90	87
Energy Intensity GAE/GDP2010 (toe/M€'15)	157	160	150	128	125	120
Energy per Capita – GIC/pop (kgoe/cap)	4934	5133	5198	4508	4625	4534
Final Electricity per Capita (KWh/cap)	5993	6403	6501	6144	6236	6284
Import Dependency (%)	38.3	37.8	28.3	48.5	51.9	59.7
of Solid Fossil Fuels	99.4	101.3	101.4	96.5	100.8	99.8
of Hard Coal	98.9	100.0	101.6	96.5	101.4	99.5
of Oil and Petroleum Products	97.4	96.2	94.2	101.2	90.4	93.9
of Crude and NGL	96.7	96.7	97.6	98.0	97.6	98.2
of Natural Gas	-49.1	-59.3	-60.4	-36.7	-4.4	15.0
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		2.48	3.92	5.66	6.46	7.39
RE-T – Renewable Energy in Transport		0.45	3.35	5.44	5.98	9.59
RES-E – Renewable Electricity Generation		6.30	9.60	11.04	13.80	15.12
RES-H&C – Renewable Heating & Cooling		2.38	3.10	5.18	5.68	6.13
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	182.3	188.8	192.8	178.2	176.9	172.8
GHG Emissions – National total*	229.7	225.7	224.0	207.4	205.4	200.5
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	101.5	99.7	99.0	91.6	90.8	88.6
Total GHG per Capita (t CO ₂ eq/cap)	14.5	13.8	13.5	12.3	12.0	11.7

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

5.22 Austria

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	9.8	9.9	12.1	12.2	12.6	12.0
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	0.7
of which Crude Oil	1.1	0.9	1.1	0.9	0.7	0.7
Natural Gas	1.5	1.3	1.4	1.0	1.0	0.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	6.6	7.2	9.0	9.6	10.2	9.8
Wastes, Non-Renewable	0.3	0.4	0.6	0.7	0.7	0.6
Net Imports	19.2	24.7	21.9	20.3	22.3	21.8
Solid Fossil Fuels	3.0	4.0	3.4	2.8	3.1	2.7
of which Hard Coal	2.3	3.0	2.4	2.1	2.3	2.1
Oil and Petroleum Products	11.0	13.3	11.8	11.3	11.3	11.7
of which Crude Oil and NGL	7.4	8.0	6.9	8.2	7.3	8.5
Natural gas	5.3	7.2	6.1	5.0	7.0	6.5
Renewables and Biofuels	0.0	0.0	0.4	0.4	0.2	0.2
Electricity	-0.1	0.2	0.2	0.9	0.6	0.8
Gross Inland Consumption	29.2	34.4	34.8	33.7	34.8	34.0
Solid Fossil Fuels	3.6	4.1	3.4	3.2	3.1	2.7
of which Hard Coal	2.5	2.8	2.5	2.5	2.3	2.2
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	12.3	12.5
of which Crude and NGL	8.5	9.0	8.0	9.0	8.2	9.1
Natural Gas	6.6	8.1	8.1	6.9	7.8	7.4
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	10.0
Electricity	-0.1	0.2	0.2	0.9	0.6	0.8
Waste, Non-Renewable	0.3	0.4	0.6	0.7	0.7	0.6
Available for Final Consumption	23.6	27.3	27.8	27.2	28.2	27.9
Final Non-Energy Consumption	1.7	1.6	1.8	1.8	1.7	1.8
Final Energy Consumption	21.8	25.7	26.0	25.4	26.5	26.0
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	9.4
Natural Gas	4.0	4.6	4.7	4.5	4.8	4.7
Renewables and Biofuels	2.4	2.9	4.1	4.3	4.3	4.1
Solid Biofuels and Renewable Waste	2.3	2.7	3.2	3.1	3.2	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	0.5
Biogases	0.0	0.0	0.0	0.0	0.1	0.0
Waste, Non-Renewable	0.1	0.2	0.2	0.2	0.3	0.3
Electricity	4.4	4.9	5.1	5.3	5.4	5.4
Heat	1.0	1.2	1.6	1.7	1.8	1.7
by Sector						
Industry	6.0	7.2	7.6	7.4	7.6	7.7
Transport	6.4	8.4	8.2	8.5	8.7	8.8
Residential	6.3	6.6	7.1	6.6	6.9	6.5
Services	2.6	3.0	2.6	2.5	2.6	2.5
Agriculture and Fishing	0.5	0.5	0.5	0.5	0.6	0.5
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	17.8	19.1	21.3	24.7	24.9	25.6
Combustible Fuels	6.1	6.5	7.3	7.7	6.6	6.5
Nuclear						
Hydro	11.6	11.8	12.9	13.6	14.1	14.5
Wind	0.1	0.8	1.0	2.5	2.9	3.1
Solar	0.0	0.0	0.1	0.9	1.3	1.4
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	61.2	66.8	71.1	65.3	71.3	68.6
Solid Fossil Fuels, Peat & Products, Oil Shale	5.7	7.2	4.9	3.0	1.8	1.8
Oil and Petroleum Products	1.7	1.6	1.3	0.9	0.9	0.7
Natural Gas	8.9	14.3	16.1	9.8	13.1	11.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	44.8	43.2	48.2	51.0	54.9	53.6
Wastes non-RES	0.1	0.4	0.6	0.7	0.7	0.7
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			3.2	2.8	2.9	2.8
CHP Electricity Generation (TWh)			11.0	9.0	9.5	9.4
CHP in Total Electricity Generation (%)			15.4	13.8	13.4	13.7
CHP Heat Production (PJ)			110.6	105.9	116.0	110.8
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	5 960	7 892	7 181	7 264	7 671	7 757
of which LPG	16	22	21	14	12	8
of which Motor Gasoline	2 016	2 137	1 767	1 542	1 507	1 543
of which Gas/Diesel Oil	3 892	5 693	5 351	5 662	6 108	6 161
Final Consumption Biofuels	16	74	495	653	478	472
Pure and Blended Biogasoline	0	0	78	60	56	58
Pure and Blended Biodiesel	16	74	417	593	422	414
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	27.5	32.7	32.9	31.6	32.8	31.8
Final Energy Consumption 2020-2030 (Mtoe)	23.7	27.9	28.1	27.5	28.6	27.9
Primary Energy Intensity 2020-2030 (toe/M€'15)	98	107	101	92	91	86
Energy Intensity GAE/GDP2010 (toe/M€'15)	104	112	107	98	97	92
Energy per Capita – GIC/pop (kgoe/cap)	3 652	4 192	4 171	3 923	3 967	3 852
Final Electricity per Capita (KWh/cap)	6 441	7 011	7 164	7 127	7 169	7 149
Import Dependency (%)	65.5	71.8	62.8	60.4	63.9	64.3
of Solid Fossil Fuels	83.9	99.4	99.7	86.9	100.0	98.2
of Hard Coal	91.6	106.8	97.3	83.5	100.3	96.0
of Oil and Petroleum Products	89.0	92.1	90.4	93.8	92.2	94.0
of Crude and NGL	86.9	88.8	86.5	91.1	89.1	92.7
of Natural Gas	80.6	88.5	75.3	72.6	90.2	87.8
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		24.38	31.20	33.54	33.14	33.43
RE-T – Renewable Energy in Transport		5.07	10.71	11.41	9.71	9.79
RES-E – Renewable Electricity Generation		62.90	66.36	71.49	71.63	73.05
RES-H&C – Renewable Heating & Cooling		22.86	30.94	33.31	33.67	33.98
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	67.9	81.2	74.1	68.4	71.9	69.2
GHG Emissions – National total*	82.0	94.4	86.7	80.7	84.3	81.5
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	103.3	118.9	109.2	101.6	106.2	102.7
Total GHG per Capita (t CO ₂ eq/cap)	10.2	11.5	10.4	9.4	9.6	9.2

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

5.23 Poland

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	79.4	78.5	67.2	68.0	64.4	61.8
Solid Fossil Fuels	71.3	68.9	55.4	53.9	49.8	47.3
of which Hard Coal	59.2	56.2	43.9	41.6	37.7	36.0
of which Brown Coal	12.1	12.7	11.6	12.3	12.2	11.3
Oil and Petroleum Products	0.9	0.9	0.8	1.0	1.0	1.1
of which Crude Oil	0.7	0.8	0.7	0.9	1.0	1.0
Natural Gas	3.3	3.9	3.7	3.7	3.5	3.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	3.8	4.5	6.9	8.9	9.2	8.9
Wastes, Non-Renewable	0.1	0.2	0.4	0.5	0.9	1.0
Net Imports	9.6	16.5	32.1	28.7	40.4	48.0
Solid Fossil Fuels	-16.3	-13.0	-2.7	-5.5	-1.5	4.1
of which Hard Coal	-13.8	-9.7	1.8	-1.0	3.0	8.6
Oil and Petroleum Products	19.8	22.0	25.7	24.1	29.8	30.7
of which Crude Oil and NGL	18.1	18.0	22.8	26.6	24.8	27.0
Natural gas	6.6	8.5	8.9	9.9	12.0	12.5
Renewables and Biofuels	0.0	-0.1	0.4	0.1	-0.2	0.2
Electricity	-0.5	-1.0	-0.1	0.0	0.2	0.5
Gross Inland Consumption	89.2	92.6	101.6	95.8	105.1	106.8
Solid Fossil Fuels	56.3	54.7	55.2	48.4	49.7	49.2
of which Hard Coal	46.3	45.5	48.5	40.7	41.9	42.6
of which Brown Coal	12.1	12.7	11.6	12.3	12.2	11.3
Oil and Petroleum Products	19.6	22.0	26.0	24.1	30.0	30.8
of which Crude and NGL	18.3	18.5	23.2	26.5	25.5	27.4
Natural Gas	10.0	12.2	12.8	13.8	15.4	16.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	3.8	4.5	7.3	9.0	9.0	9.1
Electricity	-0.5	-1.0	-0.1	0.0	0.2	0.5
Waste, Non-Renewable	0.1	0.2	0.4	0.5	0.9	1.0
Available for Final Consumption	57.1	61.7	70.4	65.1	74.7	76.6
Final Non-Energy Consumption	4.4	4.6	5.0	5.6	5.9	5.6
Final Energy Consumption	53.6	57.5	65.2	60.8	69.2	70.0
by Fuel/Product						
Solid Fossil Fuels	11.9	11.5	13.2	10.7	11.3	10.7
Oil and Petroleum Products	15.2	17.6	20.2	18.6	24.1	24.8
Natural Gas	6.3	7.9	8.9	8.5	9.2	9.3
Renewables and Biofuels	3.5	3.9	5.3	5.5	5.9	6.1
Solid Biofuels and Renewable Waste	3.5	3.8	4.3	4.6	5.1	5.0
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	0.6	0.9
Biogases	0.0	0.0	0.0	0.1	0.1	0.1
Waste, Non-Renewable	0.1	0.1	0.4	0.5	0.7	0.8
Electricity	8.4	9.0	10.2	11.0	11.7	12.1
Heat	6.9	6.6	6.5	5.5	5.8	5.6
by Sector						
Industry	17.1	14.6	13.5	14.1	15.8	16.4
Transport	9.6	12.2	17.2	16.6	21.4	22.4
Residential	17.2	19.5	22.0	18.9	19.9	19.3
Services	5.0	6.7	8.8	7.8	8.1	8.0
Agriculture and Fishing	4.6	4.4	3.7	3.3	3.9	3.9
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	30.6	32.3	33.4	37.3	42.8	43.0
Combustible Fuels	28.4	29.8	29.9	30.0	34.4	34.3
Nuclear						
Hydro	2.2	2.3	2.3	2.4	2.4	2.4
Wind	0.0	0.1	1.1	4.9	5.8	5.8
Solar	0.0	0.0	0.0	0.1	0.3	0.6
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	145.2	156.6	157.6	164.8	170.4	169.9
Solid Fossil Fuels, Peat & Products, Oil Shale	135.9	141.9	136.5	130.5	131.2	130.6
Oil and Petroleum Products	1.9	2.8	2.9	2.1	2.0	1.8
Natural Gas	3.0	6.5	6.7	8.8	12.3	15.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	4.3	5.4	11.5	23.3	24.6	22.0
Wastes non-RES	0.1	0.0	0.0	0.1	0.3	0.4
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			8.7	8.6	9.2	11.1
CHP Electricity Generation (TWh)			27.7	26.5	28.4	31.6
CHP in Total Electricity Generation (%)			17.6	16.1	16.7	18.6
CHP Heat Production (PJ)			277.1	238.6	253.3	274.5
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	9 135	11 597	15 811	15 281	20 158	20 716
of which LPG	480	1 750	1 824	1 791	2 012	2 039
of which Motor Gasoline	5 248	4 173	4 243	3 654	4 219	4 386
of which Gas/Diesel Oil	3 404	5 670	9 740	9 817	13 900	14 257
Final Consumption Biofuels	0	50	867	653	605	912
Pure and Blended Biogasoline	0	34	170	153	176	173
Pure and Blended Biodiesel	0	15	698	500	429	740
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	84.8	88.0	96.6	90.1	99.2	101.1
Final Energy Consumption 2020-2030 (Mtoe)	55.1	58.5	66.3	62.3	71.0	71.9
Primary Energy Intensity 2020-2030 (toe/M€'15)	336	299	261	209	213	207
Energy Intensity GAE/GDP2010 (toe/M€'15)	355	316	275	223	227	219
Energy per Capita – GIC/pop (kgoe/cap)	2 332	2 425	2 672	2 520	2 769	2 812
Final Electricity per Capita (KWh/cap)	2 563	2 751	3 122	3 363	3 576	3 699
Import Dependency (%)	10.7	17.7	31.6	29.9	38.3	44.8
of Solid Fossil Fuels	-29.0	-23.8	-5.0	-11.4	-3.0	8.2
of Hard Coal	-29.9	-21.3	3.7	-2.4	7.2	20.2
of Oil and Petroleum Products	99.7	98.5	98.2	99.5	98.6	98.7
of Crude and NGL	99.2	97.4	98.4	100.5	97.2	98.3
of Natural Gas	66.3	69.7	69.3	72.2	77.8	77.6
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		6.90	9.25	11.74	10.96	11.28
RE-T – Renewable Energy in Transport		1.62	6.57	5.62	4.20	5.63
RES-E – Renewable Electricity Generation		2.68	6.65	13.43	13.09	13.03
RES-H&C – Renewable Heating & Cooling		10.16	11.73	14.54	14.60	14.80
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	318.1	324.1	336.0	315.0	339.8	340.7
GHG Emissions – National total*	396.7	405.4	414.4	393.6	417.2	415.9
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	83.4	85.2	87.1	82.7	87.7	87.4
Total GHG per Capita (t CO ₂ eq/cap)	10.4	10.6	10.9	10.4	11.0	11.0

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

5.24 Portugal

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	3.8	3.6	5.8	5.9	5.8	6.5
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	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	5.7	6.4
Wastes, Non-Renewable	0.1	0.1	0.2	0.1	0.2	0.2
Net Imports	22.2	24.8	18.7	18.5	19.8	18.8
Solid Fossil Fuels	3.9	3.2	1.6	3.2	3.4	2.7
of which Hard Coal	4.0	3.2	1.6	3.2	3.4	2.7
Oil and Petroleum Products	16.2	17.1	12.5	11.2	11.4	11.5
of which Crude Oil and NGL	11.7	13.4	11.5	14.4	14.6	13.0
Natural gas	2.0	3.9	4.5	4.1	5.4	5.1
Renewables and Biofuels	0.0	0.0	-0.2	-0.2	-0.2	-0.2
Electricity	0.1	0.6	0.2	0.2	-0.2	-0.2
Gross Inland Consumption	25.4	27.4	24.4	23.6	24.6	24.0
Solid Fossil Fuels	3.8	3.3	1.7	3.3	3.2	2.7
of which Hard Coal	3.8	3.3	1.7	3.3	3.2	2.7
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	10.6	10.2
of which Crude and NGL	11.8	13.4	11.6	14.2	14.5	12.9
Natural Gas	2.0	3.8	4.5	4.1	5.4	5.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	3.8	3.5	5.5	5.6	5.5	6.1
Electricity	0.1	0.6	0.2	0.2	-0.2	-0.2
Waste, Non-Renewable	0.1	0.1	0.2	0.2	0.2	0.2
Available for Final Consumption	19.5	20.9	18.9	16.9	17.0	17.0
Final Non-Energy Consumption	2.4	2.6	1.7	1.3	1.2	0.7
Final Energy Consumption	17.2	18.3	17.2	15.6	15.9	16.2
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	7.1	7.1
Natural Gas	0.8	1.3	1.6	1.6	1.7	1.8
Renewables and Biofuels	2.4	2.5	2.5	2.8	2.8	2.8
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	4.0	4.1
Heat	0.1	0.3	0.3	0.2	0.2	0.2
by Sector						
Industry	6.3	5.8	5.5	4.4	4.5	4.6
Transport	6.0	6.4	6.4	5.6	5.8	5.9
Residential	2.8	3.2	3.0	2.8	2.8	2.9
Services	1.4	2.2	1.9	2.3	2.3	2.4
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	2017	2018
Installed Electricity Capacity (GW)	10.9	13.4	18.9	19.6	20.9	21.2
Combustible Fuels	6.3	7.3	9.9	8.0	8.0	8.1
Nuclear						
Hydro	4.5	5.0	5.1	6.2	7.2	7.2
Wind	0.1	1.1	3.8	4.9	5.1	5.2
Solar	0.0	0.0	0.1	0.4	0.6	0.7
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)	43.8	46.6	54.1	52.4	59.4	59.6
Solid Fossil Fuels, Peat & Products, Oil Shale	14.6	15.2	7.1	14.7	14.7	12.0
Oil and Petroleum Products	8.4	8.8	3.0	1.3	1.3	1.1
Natural Gas	7.2	13.6	14.9	10.6	18.9	15.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	13.3	8.6	28.8	25.5	24.3	30.6
Wastes non-RES	0.3	0.3	0.3	0.3	0.3	0.3
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			1.3	1.3	1.2	1.2
CHP Electricity Generation (TWh)			6.4	6.5	6.4	6.1
CHP in Total Electricity Generation (%)			11.8	12.3	10.8	10.3
CHP Heat Production (PJ)			67.2	59.3	60.0	59.6
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	5 932	6 382	6 062	5 199	5 501	5 539
of which LPG	23	25	32	40	41	40
of which Motor Gasoline	2 272	1 935	1 450	1 099	1 080	1 068
of which Gas/Diesel Oil	3 523	4 286	4 366	3 886	4 152	4 190
Final Consumption Biofuels	0	0	309	327	243	262
Pure and Blended Biogasoline	0	0	0	21	3	6
Pure and Blended Biodiesel	0	0	305	302	240	257
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	23.0	24.9	22.6	21.6	22.8	22.7
Final Energy Consumption 2020-2030 (Mtoe)	18.0	19.0	18.1	16.0	16.6	16.9
Primary Energy Intensity 2020-2030 (toe/M€'15)	132	137	121	120	120	116
Energy Intensity GAE/GDP2010 (toe/M€'15)	149	154	132	135	134	128
Energy per Capita – GIC/pop (kgoe/cap)	2 476	2 614	2 305	2 273	2 391	2 335
Final Electricity per Capita (KWh/cap)	3 744	4 414	4 718	4 416	4 524	4 660
Import Dependency (%)	85.3	88.6	75.2	76.3	77.9	75.6
of Solid Fossil Fuels	102.9	96.3	98.3	98.5	105.6	98.9
of Hard Coal	103.4	96.3	98.3	98.5	105.6	98.9
of Oil and Petroleum Products	99.4	102.3	97.5	101.7	100.2	104.2
of Crude and NGL	99.0	100.2	98.8	100.9	100.4	100.9
of Natural Gas	100.3	103.8	100.4	100.4	100.4	101.1
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		19.53	24.17	30.51	30.61	30.32
RE-T – Renewable Energy in Transport		0.45	5.55	7.43	7.91	9.04
RES-E – Renewable Electricity Generation		27.70	40.61	52.62	54.17	52.19
RES-H&C – Renewable Heating & Cooling		32.09	33.87	40.10	41.02	41.21
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	67.7	72.0	55.8	55.6	58.7	55.7
GHG Emissions – National total*	83.7	88.0	71.6	71.0	74.5	71.6
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	139.1	146.2	119.0	118.0	123.8	118.9
Total GHG per Capita (t CO ₂ eq/cap)	8.2	8.4	6.8	6.8	7.2	7.0

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

5.25 Romania

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	28.5	27.9	27.4	26.4	25.5	25.1
Solid Fossil Fuels	5.6	5.8	5.9	4.7	4.5	4.0
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	4.5	4.0
Oil and Petroleum Products	6.4	5.9	4.2	3.9	3.6	3.5
of which Crude Oil	6.4	5.3	4.2	3.9	3.5	3.5
Natural Gas	11.0	9.7	8.6	8.8	8.6	8.6
Nuclear	1.4	1.4	2.9	2.9	2.9	2.9
Renewables and Biofuels	4.0	5.0	5.7	5.9	5.8	5.9
Wastes, Non-Renewable	0.1	0.1	0.0	0.1	0.1	0.2
Net Imports	8.0	10.6	7.5	5.3	7.8	8.2
Solid Fossil Fuels	1.9	2.9	1.2	1.0	1.0	0.9
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	5.9	6.1
of which Crude Oil and NGL	4.8	8.7	5.7	6.5	7.7	8.2
Natural gas	2.7	4.2	1.8	0.2	0.9	1.2
Renewables and Biofuels	0.0	0.0	0.1	0.0	0.2	0.1
Electricity	-0.1	-0.2	-0.2	-0.6	-0.2	-0.2
Gross Inland Consumption	36.8	38.7	35.0	31.9	33.5	33.6
Solid Fossil Fuels	7.5	8.8	6.9	5.9	5.4	5.0
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	4.8	4.5
Oil and Petroleum Products	10.1	9.8	8.6	8.6	9.6	9.7
of which Crude and NGL	11.1	14.0	10.0	10.4	11.4	11.6
Natural Gas	13.7	13.9	10.8	8.9	9.7	9.9
Nuclear	1.4	1.4	2.9	2.9	2.9	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	-0.2	-0.2
Waste, Non-Renewable	0.1	0.1	0.0	0.1	0.1	0.2
Available for Final Consumption	24.1	26.0	24.8	22.8	24.4	24.9
Final Non-Energy Consumption	1.9	2.6	2.1	1.1	1.1	1.0
Final Energy Consumption	21.9	23.6	22.0	21.6	23.0	23.4
by Fuel/Product						
Solid Fossil Fuels	0.3	0.6	0.5	0.8	0.6	0.6
Oil and Petroleum Products	5.4	6.5	6.0	6.8	7.6	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	3.7
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	0.3	0.3
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, Non-Renewable	0.1	0.1	0.0	0.1	0.1	0.2
Electricity	2.9	3.3	3.6	3.7	3.8	3.9
Heat	3.6	2.1	1.6	1.3	1.3	1.2
by Sector						
Industry	8.6	9.0	6.5	6.4	6.4	6.6
Transport	3.3	4.2	5.0	5.3	6.1	6.3
Residential	8.4	8.0	8.1	7.4	7.7	7.8
Services	0.7	1.7	1.9	1.8	1.9	2.0
Agriculture and Fishing	0.4	0.2	0.4	0.5	0.5	0.6
Others	0.5	0.6	0.2	0.2	0.3	0.2

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	16.8	19.0	19.9	23.8	23.6	23.6
Combustible Fuels	10.0	12.0	11.6	11.2	11.1	11.0
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						
Gross Electricity Generation, by Fuel (TWh)	51.6	59.4	61.0	66.3	64.3	64.9
Solid Fossil Fuels, Peat & Products, Oil Shale	18.9	21.9	20.7	18.1	16.8	15.6
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	10.7	10.6
Nuclear	5.5	5.6	11.6	11.6	11.5	11.4
Renewables and Biofuels	14.8	20.2	20.7	26.6	24.6	26.6
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	1.8	1.6
CHP Electricity Generation (TWh)			6.5	5.6	5.8	5.4
CHP in Total Electricity Generation (%)			10.8	8.4	9.0	8.3
CHP Heat Production (PJ)			69.0	51.0	47.0	42.2
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	3 134	3 983	4 723	5 041	5 758	5 916
of which LPG	0	55	20	63	90	94
of which Motor Gasoline	1 304	1 600	1 412	1 269	1 333	1 320
of which Gas/Diesel Oil	1 760	2 304	3 180	3 676	4 285	4 446
Final Consumption Biofuels	0	0	116	202	297	297
Pure and Blended Biogasoline	0	0	47	61	91	90
Pure and Blended Biodiesel	0	0	69	141	206	207
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	34.9	36.1	32.9	30.7	32.5	32.6
Final Energy Consumption 2020-2030 (Mtoe)	22.7	24.6	22.5	21.8	23.3	23.6
Primary Energy Intensity 2020-2030 (toe/M€'15)	381	299	238	192	180	173
Energy Intensity GAE/GDP2010 (toe/M€'15)	402	321	253	199	187	179
Energy per Capita – GIC/pop (kgoe/cap)	1 637	1 809	1 725	1 604	1 707	1 720
Final Electricity per Capita (KWh/cap)	1 511	1 817	2 036	2 166	2 275	2 333
Import Dependency (%)	21.9	27.5	21.4	16.7	23.3	24.3
of Solid Fossil Fuels	25.5	33.2	16.9	16.7	18.4	17.6
of Hard Coal	96.3	103.1	88.4	96.9	102.2	103.3
of Oil and Petroleum Products	34.4	38.6	52.6	54.2	61.3	63.1
of Crude and NGL	43.5	62.0	57.2	63.0	67.3	70.8
of Natural Gas	19.8	30.1	16.8	1.8	9.7	12.0
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		17.57	22.83	24.79	24.45	23.88
RE-T – Renewable Energy in Transport		1.87	1.37	5.49	6.56	6.34
RES-E – Renewable Electricity Generation		28.78	30.38	43.16	41.97	41.79
RES-H&C – Renewable Heating & Cooling		17.93	27.23	25.89	26.58	25.43
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	95.9	103.1	84.8	78.4	79.1	77.4
GHG Emissions – National total*	143.6	151.8	124.7	117.1	117.9	116.5
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	57.7	61.0	50.1	47.1	47.4	46.8
Total GHG per Capita (t CO ₂ eq/cap)	6.4	7.1	6.1	5.9	6.0	6.0

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

5.26 Slovenia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	3.1	3.5	3.7	3.3	3.5	3.4
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	1.5	1.4
Renewables and Biofuels	0.8	0.8	1.1	1.0	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	3.6
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	2.7	2.7
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	0.0	0.1
Electricity	-0.1	0.0	-0.2	0.0	0.0	0.0
Gross Inland Consumption	6.4	7.3	7.2	6.4	6.9	6.8
Solid Fossil Fuels	1.3	1.5	1.5	1.1	1.1	1.1
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	1.1	1.1
Oil and Petroleum Products	2.4	2.6	2.6	2.3	2.4	2.5
of which Crude 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	1.5	1.4
Renewables and Biofuels	0.8	0.8	1.1	1.1	1.1	1.1
Electricity	-0.1	0.0	-0.2	0.0	0.0	0.0
Waste, Non-Renewable	0.0	0.0	0.0	0.0	0.1	0.1
Available for Final Consumption	4.7	5.2	5.2	4.8	5.1	5.1
Final Non-Energy Consumption	0.2	0.3	0.2	0.1	0.1	0.2
Final Energy Consumption	4.4	4.9	5.0	4.7	4.9	4.9
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	2.3	2.3
Natural Gas	0.6	0.7	0.6	0.6	0.6	0.6
Renewables and Biofuels	0.4	0.4	0.7	0.6	0.6	0.6
Solid Biofuels and Renewable Waste	0.4	0.4	0.6	0.5	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	0.0	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	0.1
Electricity	0.9	1.1	1.0	1.1	1.2	1.2
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	1.4
Transport	1.2	1.5	1.8	1.8	1.9	2.0
Residential	1.1	1.2	1.3	1.1	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	2017	2018
Installed Electricity Capacity (GW)						
Combustible Fuels	2.6	3.0	3.2	3.4	3.6	3.8
Nuclear	1.1	1.4	1.3	1.1	1.3	1.5
Hydro	0.7	0.7	0.7	0.7	0.7	0.7
Wind	0.8	1.0	1.3	1.3	1.3	1.3
Solar	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.0	0.0	0.0	0.2	0.2	0.2
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	13.6	15.1	16.4	15.1	16.3	16.3
Oil and Petroleum Products	4.6	5.3	5.3	4.4	4.8	4.6
Natural Gas	0.1	0.0	0.0	0.0	0.0	0.0
Nuclear	0.3	0.3	0.5	0.4	0.5	0.5
Renewables and Biofuels	4.8	5.9	5.7	5.6	6.3	5.8
Wastes non-RES	3.9	3.6	4.9	4.6	4.7	5.4
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	0.4
CHP Electricity Generation (TWh)			1.1	1.2	1.3	1.3
CHP in Total Electricity Generation (%)			6.9	7.7	7.7	8.0
CHP Heat Production (PJ)			11.6	10.4	11.1	11.3
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 201	1 446	1 718	1 728	1 886	1 869
of which LPG	0	0	5	14	15	15
of which Motor Gasoline	849	689	600	437	423	425
of which Gas/Diesel Oil	351	756	1 111	1 276	1 447	1 428
Final Consumption Biofuels	0	0	46	29	24	73
Pure and Blended Biogasoline	0	0	4	7	3	7
Pure and Blended Biodiesel	0	0	41	23	21	66
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	6.2	7.0	7.0	6.3	6.7	6.7
Final Energy Consumption 2020-2030 (Mtoe)	4.5	4.9	5.0	4.7	4.9	5.0
Primary Energy Intensity 2020-2030 (toe/M€'15)	213	202	184	163	160	153
Energy Intensity GAE/GDP2010 (toe/M€'15)	221	212	190	168	167	161
Energy per Capita – GIC/pop (kgoe/cap)	3 244	3 667	3 525	3 124	3 323	3 303
Final Electricity per Capita (KWh/cap)	5 293	6 379	5 835	6 199	6 549	6 637
Import Dependency (%)						
of Solid Fossil Fuels	52.8	52.5	49.5	49.7	51.0	51.3
of Hard Coal	18.8	21.0	19.3	19.1	17.4	18.9
of Oil and Petroleum Products	118.2	100.0	135.3	124.2	100.7	90.4
of Crude and NGL	101.5	101.2	99.2	99.6	103.2	99.2
of Natural Gas	87.2	0.0	0.0	0.0	0.0	0.0
of Natural Gas	99.3	99.6	99.3	99.6	99.0	98.1
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		16.00	20.42	21.89	21.06	21.15
RE-T – Renewable Energy in Transport		0.83	3.12	2.24	2.57	5.50
RES-E – Renewable Electricity Generation		28.65	32.20	32.73	32.43	32.32
RES-H&C – Renewable Heating & Cooling		18.91	28.14	33.93	33.25	31.61
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	15.5	17.0	16.4	13.7	14.3	14.6
GHG Emissions – National total*	19.1	20.5	19.6	16.8	17.4	17.6
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	102.4	110.0	105.2	90.2	93.5	94.3
Total GHG per Capita (t CO ₂ eq/cap)	9.6	10.3	9.6	8.2	8.4	8.5

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

5.27 Slovakia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	6.3	6.4	6.0	6.4	6.4	6.0
Solid Fossil Fuels	1.0	0.6	0.6	0.5	0.4	0.4
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	0.4
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	3.8
Renewables and Biofuels	0.5	0.9	1.4	1.6	1.6	1.6
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	11.2	10.9
Solid Fossil Fuels	3.4	3.7	3.0	2.8	3.0	3.1
of which Hard Coal	3.1	3.5	2.6	2.5	2.6	2.7
Oil and Petroleum Products	2.6	3.2	3.5	3.1	3.6	3.8
of which Crude Oil and NGL	5.3	5.3	5.5	5.9	5.5	5.4
Natural Gas	5.7	5.7	5.0	3.7	4.4	3.7
Renewables and Biofuels	0.0	0.0	-0.1	0.0	0.0	0.0
Electricity	-0.2	-0.3	0.1	0.2	0.3	0.3
Gross Inland Consumption	17.7	18.7	17.7	16.3	17.2	17.0
Solid Fossil Fuels	4.3	4.2	3.9	3.3	3.4	3.3
of which Hard Coal	3.0	3.3	2.8	2.6	2.6	2.7
of which Brown Coal	1.2	0.9	0.8	0.7	0.6	0.6
Oil and Petroleum Products	2.9	3.3	3.5	3.1	3.7	3.8
of which Crude Oil and NGL	5.4	5.5	5.5	5.9	5.6	5.4
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	3.8
Renewables and Biofuels	0.5	0.8	1.3	1.6	1.6	1.6
Electricity	-0.2	-0.3	0.1	0.2	0.3	0.3
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	11.0	11.2
Final Non-Energy Consumption	1.4	1.3	1.1	1.0	1.1	1.3
Final Energy Consumption	9.9	10.4	10.4	8.9	9.9	9.9
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	2.6	2.8
Natural Gas	4.2	3.9	3.5	2.5	2.7	2.6
Renewables and Biofuels	0.1	0.3	0.5	0.6	0.6	0.7
Solid Biofuels and Renewable Waste	0.1	0.3	0.4	0.4	0.4	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	0.1	0.1	0.1	0.1
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	2.2
Heat	0.6	1.0	0.9	0.6	0.7	0.6
by Sector						
Industry	3.5	3.6	3.2	3.3	3.5	3.7
Transport	1.4	2.4	2.6	2.2	2.8	2.7
Residential	2.6	2.5	2.3	2.0	2.1	2.1
Services	2.2	1.8	2.1	1.3	1.4	1.3
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	2017	2018
Installed Electricity Capacity (GW)	7.5	8.3	7.9	7.8	7.7	7.6
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	1.9
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	0.5	0.5
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	31.2	31.4	27.8	26.8	27.6	26.9
Solid Fossil Fuels, Peat & Products, Oil Shale	5.6	5.5	3.6	2.8	3.0	3.0
Oil and Petroleum Products	0.2	0.7	0.6	0.4	0.4	0.5
Natural Gas	3.9	2.6	2.7	2.1	2.2	2.4
Nuclear	16.5	17.7	14.6	15.1	15.1	14.8
Renewables and Biofuels	5.0	4.8	6.3	6.3	6.8	6.1
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	1.7	1.8
CHP Electricity Generation (TWh)			4.4	21.1	3.5	3.0
CHP in Total Electricity Generation (%)			15.9	78.5	12.5	11.2
CHP Heat Production (PJ)			20.1	27.3	36.9	32.1
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 347	1 694	2 055	1 881	2 422	2 410
of which LPG	0	1	2	37	34	35
of which Motor Gasoline	605	667	600	577	609	571
of which Gas/Diesel Oil	742	1 014	1 453	1 267	1 779	1 804
Final Consumption Biofuels	0	11	98	144	149	150
Pure and Blended Biogasoline	0	0	24	23	20	18
Pure and Blended Biodiesel	0	11	74	121	130	132
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	16.4	17.4	16.7	15.2	16.1	15.8
Final Energy Consumption 2020-2030 (Mtoe)	11.0	11.6	11.5	10.1	11.1	11.1
Primary Energy Intensity 2020-2030 (toe/M€'15)	378	315	237	191	192	181
Energy Intensity GAE/GDP2010 (toe/M€'15)	410	338	252	204	206	195
Energy per Capita – GIC/pop (kgoe/cap)	3 284	3 480	3 286	3 000	3 173	3 132
Final Electricity per Capita (KWh/cap)	4 077	4 253	4 477	4 495	4 747	4 765
Import Dependency (%)	65.1	66.0	64.4	60.1	64.8	63.7
of Solid Fossil Fuels	80.2	88.3	75.7	84.5	87.8	91.9
of Hard Coal	103.8	105.2	91.9	97.5	100.1	100.9
of Oil and Petroleum Products	92.5	97.4	98.4	100.6	97.5	101.3
of Crude and NGL	97.6	97.8	99.9	99.3	99.5	100.0
of Natural Gas	98.8	97.5	99.9	95.1	105.6	89.6
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		6.36	9.10	12.88	11.47	11.90
RE-T – Renewable Energy in Transport		1.63	5.22	8.54	6.91	6.96
RES-E – Renewable Electricity Generation		15.74	17.77	22.66	21.34	21.50
RES-H&C – Renewable Heating & Cooling		5.03	7.90	10.79	9.84	10.60
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	41.3	43.1	38.7	34.6	36.3	36.3
GHG Emissions – National total*	49.3	51.4	46.5	42.0	43.6	43.5
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	67.1	69.9	63.2	57.0	59.3	59.2
Total GHG per Capita (t CO ₂ eq/cap)	9.1	9.6	8.6	7.7	8.0	8.0

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

5.28 Finland

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	14.9	16.7	17.2	17.2	18.3	19.7
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	0.1	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	5.4	5.4
Renewables and Biofuels	7.8	8.2	9.4	10.4	11.7	12.0
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	15.2	15.8
Solid Fossil Fuels	3.5	3.3	4.0	2.5	2.6	2.8
of which Hard Coal	3.2	3.0	3.7	2.3	2.5	2.6
Oil and Petroleum Products	10.6	10.9	9.5	9.6	8.8	9.0
of which Crude Oil and NGL	11.9	10.8	11.4	11.1	12.7	13.0
Natural gas	3.4	3.6	3.8	2.2	1.9	2.2
Renewables and Biofuels	0.0	-0.1	-0.1	0.1	0.1	0.1
Electricity	1.0	1.5	0.9	1.4	1.8	1.7
Gross Inland Consumption	32.8	34.8	36.9	32.6	34.2	34.9
Solid Fossil Fuels	3.6	3.3	4.6	2.7	2.8	2.8
of which Hard Coal	3.3	2.9	4.3	2.5	2.8	2.6
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	8.8	8.8
of which Crude and NGL	11.7	11.1	11.3	10.7	12.8	13.0
Natural Gas	3.4	3.6	3.8	2.2	1.9	2.2
Nuclear	5.8	6.0	5.6	5.6	5.4	5.4
Renewables and Biofuels	7.8	8.1	9.4	10.5	11.8	12.1
Electricity	1.0	1.5	0.9	1.4	1.8	1.7
Waste, Non-Renewable	0.1	0.1	0.1	0.2	0.3	0.3
Available for Final Consumption	23.7	25.3	26.4	24.3	26.0	26.0
Final Non-Energy Consumption	1.0	1.2	1.2	1.3	1.4	1.4
Final Energy Consumption	23.3	24.0	25.1	23.0	24.6	25.1
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	6.1	6.2
Natural Gas	0.9	0.8	0.8	0.6	0.6	0.6
Renewables and Biofuels	4.5	4.2	4.9	5.4	6.4	6.6
Solid Biofuels and Renewable Waste	4.5	4.2	4.7	4.9	5.4	5.6
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	0.2	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	0.1	0.1
Electricity	6.5	6.9	7.2	6.7	7.0	7.1
Heat	3.3	3.8	4.6	3.8	4.0	4.0
by Sector						
Industry	11.5	11.1	10.7	10.2	10.7	11.1
Transport	3.9	4.2	4.3	4.1	4.2	4.2
Residential	4.5	5.0	5.9	5.0	5.8	5.7
Services	2.3	2.6	3.1	2.7	3.0	3.1
Agriculture and Fishing	0.8	0.8	0.8	0.7	0.7	0.7
Others	0.3	0.3	0.3	0.3	0.3	0.2

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)						
Combustible Fuels	10.7	10.7	9.5	9.6	9.0	8.9
Nuclear	2.6	2.7	2.7	2.8	2.8	2.8
Hydro	2.9	3.0	3.2	3.2	3.3	3.3
Wind	0.0	0.1	0.2	1.0	2.0	2.0
Solar	0.0	0.0	0.0	0.0	0.1	0.1
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	12.5	11.0	20.8	8.2	8.6	9.3
Oil and Petroleum Products	0.6	0.5	0.5	0.2	0.2	0.3
Natural Gas	10.8	11.9	11.8	5.8	3.9	5.0
Nuclear	22.5	23.3	22.8	23.2	22.5	22.8
Renewables and Biofuels	23.4	23.5	24.2	30.5	31.5	32.1
Wastes non-RES	0.1	0.2	0.2	0.4	0.5	0.5
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			6.2	5.8	6.5	6.4
CHP Electricity Generation (TWh)			29.2	21.7	21.7	22.8
CHP in Total Electricity Generation (%)			36.2	31.7	32.1	32.5
CHP Heat Production (PJ)			272.8	242.4	246.5	245.7
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	3 872	4 147	4 086	3 542	3 729	3 790
of which LPG	0	0	0	0	0	0
of which Motor Gasoline	1 748	1 835	1 531	1 361	1 302	1 283
of which Gas/Diesel Oil	1 947	2 167	2 435	2 109	2 352	2 426
Final Consumption Biofuels	0	0	140	496	391	366
Pure and Blended Biogasoline	0	0	78	66	81	84
Pure and Blended Biodiesel	0	0	63	430	310	281
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	31.6	33.6	35.5	31.2	32.1	32.7
Final Energy Consumption 2020-2030 (Mtoe)	24.4	25.2	26.3	24.2	25.3	25.8
Primary Energy Intensity 2020-2030 (toe/M€'15)	179	167	169	147	143	144
Energy Intensity GAE/GDP2010 (toe/M€'15)	189	176	176	156	155	155
Energy per Capita – GIC/pop (kgoe/cap)	6 336	6 654	6 886	5 961	6 220	6 329
Final Electricity per Capita (KWh/cap)	14 636	15 421	15 604	14 346	14 726	15 013
Import Dependency (%)						
of Solid Fossil Fuels	97.6	102.0	86.3	92.4	91.5	100.6
of Hard Coal	97.7	102.6	85.5	89.8	90.3	99.7
of Oil and Petroleum Products	104.1	99.1	92.3	109.6	96.4	98.6
of Crude and NGL	101.5	97.5	101.1	104.2	98.9	100.1
of Natural Gas	100.0	100.0	100.0	100.0	99.1	100.3
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		28.83	32.44	39.32	40.92	41.16
RE-T – Renewable Energy in Transport		0.91	4.41	24.78	18.81	14.90
RES-E – Renewable Electricity Generation		26.92	27.66	32.47	35.22	36.77
RES-H&C – Renewable Heating & Cooling		39.16	44.20	52.62	54.60	54.64
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	58.2	58.4	65.8	46.1	46.8	48.3
GHG Emissions – National total*	71.3	71.2	77.4	57.1	57.5	58.8
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	98.7	98.6	107.1	79.1	79.6	81.4
Total GHG per Capita (t CO ₂ eq/cap)	13.8	13.6	14.5	10.4	10.4	10.7

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

5.29 Sweden

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	30.0	34.1	32.0	35.9	36.6	36.6
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	16.4	16.7
Renewables and Biofuels	14.7	14.7	16.8	19.7	19.4	19.0
Wastes, Non-Renewable	0.3	0.5	0.5	0.6	0.7	0.7
Net Imports	19.3	20.3	19.9	14.7	14.0	15.4
Solid Fossil Fuels	2.3	2.5	2.4	1.9	1.9	2.0
of which Hard Coal	2.1	2.2	2.3	1.9	1.9	1.9
Oil and Petroleum Products	15.7	17.4	15.5	13.0	11.3	12.2
of which Crude Oil and NGL	20.8	20.2	20.0	20.3	19.2	20.1
Natural gas	0.8	0.8	1.5	0.7	0.9	1.0
Renewables and Biofuels	0.0	0.1	0.2	0.9	1.4	1.5
Electricity	0.4	-0.6	0.2	-1.9	-1.6	-1.5
Gross Inland Consumption	47.7	51.7	50.7	47.1	50.3	50.8
Solid Fossil Fuels	2.2	2.3	2.1	2.0	1.9	2.0
of which Hard Coal	2.0	2.1	2.0	1.9	1.8	1.9
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	10.7	11.1
of which Crude and NGL	20.7	20.1	20.2	19.5	19.6	20.2
Natural Gas	0.8	0.8	1.5	0.7	0.9	1.0
Nuclear	14.8	18.7	14.5	15.5	16.4	16.7
Renewables and Biofuels	14.7	14.9	17.0	20.5	21.1	20.5
Electricity	0.4	-0.6	0.2	-1.9	-1.6	-1.5
Waste, Non-Renewable	0.3	0.5	0.5	0.6	0.8	0.8
Available for Final Consumption	34.9	33.6	35.3	31.9	34.8	34.8
Final Non-Energy Consumption	1.7	2.4	2.1	1.8	2.4	2.2
Final Energy Consumption	33.7	32.0	32.7	31.6	31.9	31.8
by Fuel/Product						
Solid Fossil Fuels	0.5	0.4	0.4	0.4	0.4	0.4
Oil and Petroleum Products	12.6	10.6	9.5	7.9	7.4	7.2
Natural Gas	0.4	0.5	0.6	0.6	0.4	0.5
Renewables and Biofuels	5.3	4.7	5.7	7.6	8.2	8.2
Solid Biofuels and Renewable Waste	5.3	4.6	5.2	5.4	5.3	5.1
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	0.2	0.4	1.0	1.5	1.6
Biogases	0.0	0.0	0.1	0.1	0.1	0.1
Waste, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	11.1	11.2	11.3	10.7	10.9	11.0
Heat	3.6	4.2	5.1	4.2	4.4	4.4
by Sector						
Industry	13.7	11.7	11.6	11.0	10.9	11.0
Transport	7.5	7.5	7.5	7.3	7.3	7.1
Residential	7.3	7.6	8.3	7.4	7.7	7.5
Services	4.4	4.1	4.3	4.0	4.0	4.1
Agriculture and Fishing	0.8	1.0	0.9	0.7	0.7	0.6
Others	0.0	0.0	0.0	1.1	1.3	1.4

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)						
Combustible Fuels	33.7	33.4	36.5	39.7	39.8	41.2
Nuclear	7.5	7.1	8.7	7.8	7.4	8.4
Hydro	9.5	9.5	9.0	9.7	9.0	8.7
Wind	16.5	16.3	16.7	16.3	16.5	16.4
Solar	0.2	0.5	2.0	5.8	6.6	7.3
Geothermal	0.0	0.0	0.0	0.1	0.2	0.4
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	145.3	158.4	148.5	162.1	164.3	163.4
Oil and Petroleum Products	1.7	1.2	1.8	0.6	0.5	0.6
Natural Gas	1.5	1.4	1.8	0.3	0.3	0.3
Nuclear	1.3	1.3	3.8	1.1	1.0	1.1
Nuclear	57.3	72.4	57.8	56.3	65.7	68.5
Renewables and Biofuels	83.2	81.3	82.2	102.6	95.1	91.2
Wastes non-RES	0.2	0.9	1.2	1.2	1.7	1.6
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			5.1	4.9	3.0	3.3
CHP Electricity Generation (TWh)			18.5	13.7	9.0	9.1
CHP in Total Electricity Generation (%)			12.5	8.4	5.5	5.6
CHP Heat Production (PJ)			187.2	151.3	92.0	90.6
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	7 168	7 072	6 905	6 120	5 706	5 431
of which LPG	0	1	1	2	0	0
of which Motor Gasoline	4 208	3 941	3 228	2 395	2 181	2 039
of which Gas/Diesel Oil	2 677	2 799	3 408	3 491	3 278	3 098
Final Consumption Biofuels	0	145	338	820	1 265	1 364
Pure and Blended Biogasoline	0	138	192	129	95	119
Pure and Blended Biodiesel	0	6	146	691	1 170	1 245
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	46.0	49.3	48.6	43.9	46.4	47.0
Final Energy Consumption 2020-2030 (Mtoe)	35.0	33.5	34.2	31.8	32.2	32.0
Primary Energy Intensity 2020-2030 (toe/M€'15)	140	132	119	97	97	96
Energy Intensity GAE/GDP2010 (toe/M€'15)	150	144	129	108	111	108
Energy per Capita – GIC/pop (kgoe/cap)	5 384	5 735	5 429	4 831	5 034	5 016
Final Electricity per Capita (KWh/cap)	14 526	14 504	14 048	12 810	12 732	12 605
Import Dependency (%)						
of Solid Fossil Fuels	39.3	37.9	37.8	30.0	26.6	29.2
of Hard Coal	105.4	105.9	113.7	97.4	101.3	100.3
of Oil and Petroleum Products	107.7	104.3	115.2	99.6	105.3	97.1
of Crude and NGL	100.8	103.9	93.7	114.6	86.8	94.1
of Crude and NGL	100.6	100.4	99.0	103.6	98.0	99.3
of Natural Gas	100.0	100.0	100.0	100.0	102.1	102.1
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		40.72	46.96	53.01	54.20	54.65
RE-T – Renewable Energy in Transport		6.60	9.63	21.49	26.84	29.70
RES-E – Renewable Electricity Generation		50.90	55.77	65.73	65.91	66.23
RES-H&C – Renewable Heating & Cooling		50.74	59.12	65.39	65.85	65.38
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	56.6	55.8	55.2	45.5	45.1	44.6
GHG Emissions – National total*	70.1	68.6	66.6	55.9	55.5	54.6
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	96.6	94.6	91.8	77.1	76.5	75.3
Total GHG per Capita (t CO ₂ eq/cap)	7.9	7.6	7.1	5.7	5.6	5.4

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

5.30 United Kingdom

Mtoe, unless otherwise stated	2000	2005	2010	2015	2017	2018
Production	272.3	205.5	146.4	115.7	117.9	121.3
Solid Fossil Fuels	18.7	12.1	10.9	5.1	1.9	1.6
of which Hard Coal	18.7	12.1	10.9	5.1	1.9	1.6
of which Brown Coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and Petroleum Products	131.7	88.8	65.4	47.0	48.5	52.8
of which Crude Oil	131.6	88.5	65.4	47.0	48.5	52.8
Natural Gas	97.6	79.4	49.8	34.2	36.0	34.9
Nuclear	21.9	21.1	13.9	15.5	15.1	14.1
Renewables and Biofuels	2.3	3.5	5.8	12.8	15.3	16.6
Wastes, Non-Renewable	0.2	0.7	0.5	1.0	1.2	1.3
Net Imports	-40.3	31.7	62.6	72.9	66.9	66.5
Solid Fossil Fuels	14.5	27.3	16.0	14.6	5.8	6.7
of which Hard Coal	14.4	26.7	16.3	13.9	5.1	6.0
Oil and Petroleum Products	-46.7	-2.7	10.9	27.0	27.0	21.3
of which Crude Oil and NGL	-43.0	-0.2	9.6	14.0	10.1	3.4
Natural gas	-9.3	6.0	33.9	26.5	30.2	33.4
Renewables and Biofuels	0.0	0.4	1.6	2.9	2.6	3.4
Electricity	1.2	0.7	0.2	1.8	1.3	1.6
Gross Inland Consumption	233.3	234.8	213.0	190.9	185.9	185.1
Solid Fossil Fuels	36.5	37.7	31.9	24.7	9.9	8.1
of which Hard Coal	36.6	37.3	32.3	23.9	9.2	7.5
of which Brown Coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and Petroleum Products	83.7	85.3	74.3	71.0	73.4	72.3
of which Crude and NGL	89.8	88.1	75.3	61.0	58.9	56.5
Natural Gas	87.4	85.5	84.8	61.2	67.1	67.7
Nuclear	21.9	21.1	13.9	15.5	15.1	14.1
Renewables and Biofuels	2.3	3.9	7.4	15.7	17.9	20.1
Electricity	1.2	0.7	0.2	1.8	1.3	1.6
Waste, Non-Renewable	0.2	0.7	0.5	1.0	1.2	1.3
Available for Final Consumption	150.3	148.7	139.2	128.3	128.6	129.7
Final Non-Energy Consumption	11.3	11.4	7.9	7.4	8.1	8.0
Final Energy Consumption	139.6	137.7	130.1	120.0	120.9	121.9
by Fuel/Product						
Solid Fossil Fuels	3.7	2.5	2.4	2.3	1.8	1.7
Oil and Petroleum Products	52.8	53.4	48.6	47.8	49.0	48.1
Natural Gas	51.4	49.8	46.5	37.7	37.8	39.2
Renewables and Biofuels	0.6	0.6	2.8	4.7	5.0	5.7
Solid Biofuels and Renewable Waste	0.5	0.4	1.6	2.5	2.8	3.1
Solar Thermal	0.0	0.0	0.0	0.1	0.1	0.1
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid Biofuels	0.0	0.1	1.2	0.9	0.9	1.3
Biogases	0.1	0.1	0.1	0.1	0.2	0.2
Waste, Non-Renewable	0.0	0.1	0.1	0.1	0.1	0.1
Electricity	28.3	30.0	28.3	26.1	25.8	25.8
Heat	2.4	1.3	1.3	1.2	1.3	1.3
by Sector						
Industry	33.9	30.5	25.6	23.0	21.6	21.4
Transport	42.2	43.3	40.4	40.9	41.9	41.8
Residential	43.1	44.2	45.5	37.3	36.8	38.0
Services	16.9	16.8	16.5	16.8	17.8	18.0
Agriculture and Fishing	1.2	0.9	1.0	1.0	1.5	1.5
Others	2.4	2.0	1.0	1.0	1.2	1.2

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)						
Combustible Fuels	61.2	64.7	72.9	58.3	62.8	59.3
Nuclear	12.5	11.9	10.9	9.5	9.4	9.3
Hydro	4.3	4.3	4.4	4.7	4.8	4.8
Wind	0.4	1.6	5.4	14.3	19.6	21.8
Solar	0.0	0.0	0.1	9.6	12.8	13.1
Geothermal						
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	120.0	134.6	107.6	75.9	22.5	16.8
Oil and Petroleum Products	8.4	5.3	4.8	2.0	1.6	1.1
Natural Gas	150.4	154.3	176.8	101.0	137.5	132.3
Nuclear	85.1	81.6	62.1	70.3	70.3	65.1
Renewables and Biofuels	12.7	19.9	29.3	85.3	99.9	110.6
Wastes non-RES	0.5	2.6	1.4	3.5	4.2	4.9
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			6.1	5.9	4.5	4.7
CHP Electricity Generation (TWh)			23.6	19.4	21.6	22.3
CHP in Total Electricity Generation (%)			6.2	5.7	6.4	6.7
CHP Heat Production (PJ)			155.5	124.2	139.8	136.0
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	41 468	42 839	38 924	39 559	40 582	40 088
of which LPG	25	135	116	90	74	65
of which Motor Gasoline	22 858	19 975	15 598	12 926	12 604	12 370
of which Gas/Diesel Oil	17 795	21 547	22 392	25 710	27 008	26 750
Final Consumption Biofuels	0	69	1 151	933	934	1 287
Pure and Blended Biogasoline	0	43	321	404	383	387
Pure and Blended Biodiesel	0	26	830	529	551	900
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	222.0	223.5	205.1	182.5	176.7	176.1
Final Energy Consumption 2020-2030 (Mtoe)	153.3	153.0	143.1	132.6	133.5	134.5
Primary Energy Intensity 2020-2030 (toe/M€'15)	109	96	86	69	64	63
Energy Intensity GAE/GDP2010 (toe/M€'15)	116	102	90	73	69	67
Energy per Capita – GIC/pop (kgoe/cap)	3 968	3 902	3 408	2 944	2 823	2 794
Final Electricity per Capita (KWh/cap)	5 604	5 794	5 263	4 681	4 551	4 523
Import Dependency (%)						
of Solid Fossil Fuels	39.6	72.3	50.3	59.2	58.7	82.6
of Hard Coal	39.4	71.6	50.5	58.0	55.5	80.4
of Oil and Petroleum Products	-54.4	-3.1	14.1	36.7	35.6	28.5
of Crude and NGL	-47.9	-0.2	12.8	22.9	17.2	6.0
of Natural Gas	-10.7	7.0	40.0	43.3	45.0	49.4
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		1.12	3.78	8.34	9.73	11.02
RE-T – Renewable Energy in Transport		0.47	3.31	4.48	4.80	6.45
RES-E – Renewable Electricity Generation		3.24	6.85	21.87	27.35	30.88
RES-H&C – Renewable Heating & Cooling		0.75	3.20	6.20	6.90	7.52
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	594.9	602.2	541.2	453.2	421.6	414.0
GHG Emissions – National total*	742.5	726.6	642.4	541.7	507.7	498.7
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	91.7	89.7	79.3	66.9	62.7	61.6
Total GHG per Capita (t CO ₂ eq/cap)	12.6	12.1	10.3	8.4	7.7	7.5

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

Appendices



Appendices



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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
EU28	European Union – 28 countries (2013-2020)			
EU27_2020	European Union – 27 countries (from 2020)			

* Latin transliteration.

Sources: 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 and 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 and steel
FC_IND_CPC_E	Chemical and 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 and quarrying
FC_IND_FBT_E	Food, beverages and tobacco
FC_IND_PPP_E	Paper, pulp and printing
FC_IND_WP_E	Wood and wood products
FC_IND_CON_E	Construction
FC_IND_TL_E	Textile and 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 and public services
FC_OTH_HH_E	Households
FC_OTH_AF_E	Agriculture and forestry
FC_OTH_FISH_E	Fishing
FC_OTH_NSP_E	Not elsewhere specified (other)
STATDIFF	Statistical differences

Appendix 3 – Main Energy Products in Eurostat Energy Balances – EN

ESTAT Energy Database – EN	
Code	Dissemination label
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
O4000XBIO	Oil and petroleum products
O4100_TOT	Crude oil
O4200	Natural gas liquids
O4300	Refinery feedstocks
O4400X4410	Additives and oxygenates (excluding biofuel portion)
O4500	Other hydrocarbons
O4610	Refinery gas
O4620	Ethane
O4630	Liquefied petroleum gas
O4652XR5210B	Motor gasoline (excluding biofuel portion)
O4651	Aviation gasoline
O4653	Gasoline-type jet fuel
O4661XR5230B	Kerosene-type jet fuel (excluding biofuel portion)
O4669	Other kerosene
O4640	Naphtha
O4671XR5220B	Gas oil and diesel oil (excluding biofuel portion)
O4680	Fuel oil
O4691	White spirit and special boiling point industrial spirits
O4692	Lubricants
O4695	Bitumen
O4694	Petroleum coke
O4693	Paraffin waxes
O4699	Other oil products n.e.c.

Code	Dissemination label
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 and 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
kgoe	kilogram of oil equivalent
ktoe	kiloton of oil equivalent
kton	kiloton
kWh	kilowatt hour
LPG	liquefied petroleum gas
ME '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
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	1/41 868	/3.6
Million ton of oil equivalent (Mtoe)	X 41 868	1	X 11 630
Gigawatt-hour (GWh)	X 3.6	/11 630	1

VOLUME

	TO:			
	l	bbl	gal US	gal UK
	Multiply by			
FROM: Litre (l)	1	0.6290×10^{-2}	0.2642	0.2200
Barrel (bbl)	158.99	1	42	34.9723
U.S. gallon (gal US)	3.7854	0.2381×10^{-1}	1	0.8327
U.K. gallon (gal UK)	4.5461	0.2859×10^{-1}	1.2009	1

MASS

	TO:		
	t	lt	st
	Multiply by		
FROM: Ton, Tonne (t)	1	0.9842	1.1023
Long ton (lt) UK	1.0160	1	1.1200
Short ton (st) US	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	27.0
Blended biodiesels	27.0
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 Regulation \(EU\) No 601/2012](#) 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.

Appendix Glossary

Appendix 7 – Glossary

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

ALL FUELS

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

AMBIENT HEAT (HEAT PUMPS)

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

ANNUAL INSTALLED CAPACITY

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

AUTOPRODUCER: ELECTRICITY AND HEAT GENERATION

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

AVAILABLE FOR FINAL CONSUMPTION (ENERGY)

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

BIOFUELS

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

(R5220P), blended biodiesel (R5220B), pure bio jet kerosene (R5230P), blended bio jet kerosene (R5230B) and other liquid biofuels (R5290).

BIOFUELS AND RES WASTE

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

The non-renewable part of municipal waste (W6220) and the industrial waste (W6100) are included in non-renewable waste (W6100_6220).

CAPACITY FACTOR – ANNUAL AVERAGE

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

CHP – COMBINED HEAT AND POWER

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

CONVENTIONAL THERMAL POWER

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

CUMULATIVE INSTALLED CAPACITY

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

ELECTRICITY MIX

The electricity mix is the proportion of different sources in electricity production. While energy mix is measured at gross inland consumption level, electricity mix is measured at energy transformation into electricity level (i.e. in gross electricity generation).

ENERGY AVAILABLE FOR FINAL CONSUMPTION

Energy available for final consumption, [AFC], covers the energy placed at the disposal of final users. This code is calculated as follows: total energy supply [NGSUP] + transformation output [TO] - transformation input [TI] - consumption of the energy sector [NRG_E] - distribution losses [DL]. It includes final non-energy consumption [FC_NE] and Final energy consumption [FC_E].

ENERGY IMPORT DEPENDENCY

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

ENERGY INTENSITY

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

ENERGY MIX

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

ENERGY SECTOR BROAD DEFINITION

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

ENERGY SECTOR NARROW DEFINITION

It includes the electricity, gas, steam, and air conditioning supply sector.

EUROBASE

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

FINAL ENERGY CONSUMPTION (FEC)

Final energy consumption covers energy supplied to the final consumer's sectors for all energy uses [FC_E]. It excludes deliveries to the energy transformation sector and to the energy industries themselves. It is the sum of final energy consumption by industry [FC_IND_E], transport [FC_TRA_E], household [FC_OTH_HH_E], commercial & public services [FC_OTH_CP_E], agriculture & forestry [FC_OTH_AF_E], fishing [FC_OTH_FISH_E] and other unspecified [FC_OTH_NSP_E].

FINAL ENERGY CONSUMPTION 2020-2030

In order to allow comparison with Europe 2020 targets established prior to the actual methodology of energy balance, this Eurostat indicator [FEC 2020-2030] estimates Final energy consumption to that calculated under the old methodology – the methodology in place at the time of establishing the Directive 2012/27/EU and Europe 2020 energy efficiency targets. This indicator should be used also for tracking progress towards Europe 2030 energy efficiency targets.

FINAL ENERGY CONSUMPTION – TRANSPORT

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

FINAL NON-ENERGY CONSUMPTION

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

GDP – GROSS DOMESTIC PRODUCT

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

GDP AT CONSTANT MARKET PRICES

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

GHG – GREENHOUSE GAS

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

GHG GDP INTENSITY

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

GHG INTENSITY OF THE ENERGY CONSUMPTION

GHG Intensity of the Energy Consumption [kg CO₂ eq./toe] represents the average emission rate of greenhouse gas (GHG) emissions from energy related activities of an economy relative to its gross inland consumption.

GROSS AVAILABLE ENERGY

Gross available energy [GAE] represents the quantity of energy necessary to satisfy all energy demand of entities operating under the authorities of the geographical entity under consideration. Gross available energy is defined by the formula: primary production [PPRD] + Recovered & Recycled Products [RCV_RCY] + Imports [IMP] – Exports [EXP] + Stock changes [STK_CHG].

GROSS CALORIFIC VALUE (GCV)

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

GROSS ELECTRICITY GENERATION

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

GROSS ELECTRICITY GENERATION PENETRATION LEVEL

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

GROSS FINAL ENERGY CONSUMPTION

Gross final consumption of energy means the energy commodities delivered for energy purposes to industry, transport, households and services (including public services), agriculture, forestry and fisheries, including the consumption of electricity and heat by the energy branch for electricity and heat production and including losses of electricity and heat in distribution and transmission.

The gross (overall) final consumption of energy from renewable sources is calculated as the sum of: (a) gross final consumption of electricity from renewable energy sources; (b) gross final consumption of energy from renewable sources for heating and cooling; and (c) final consumption of energy from renewable sources in transport.

GROSS HEAT PRODUCED

It is the total heat produced, including losses in the installations/network heat exchanges, as well as heat from chemical processes used as primary energy form. For auto-producers, the heat used by the undertaking for its own processes is not included here. Only heat sold to third parties should be reported.

GROSS INLAND CONSUMPTION

Gross inland consumption [GIC] represents the quantity of energy necessary to satisfy inland consumption of the geographical entity under consideration, i.e. the Total Energy Supply [NRGSUP], plus the international aviation [INTAVI]. It is also calculated using the following formula: gross available energy [GAE] – International maritime bunkers [INTMARB]. Gross inland consumption is calculated to ensure continuity and transition from the old Eurostat energy balance into the new Eurostat energy balance methodology.

GROSS INLAND CONSUMPTION 2020-2030

This indicator [GIC 20202-2030] estimates Gross inland consumption to that calculated under the old methodology – the methodology in place at the time of establishing the Europe 2020 targets. This indicator should be used also for tracking progress towards Europe 2030 targets.

GROSS INSTALLED (ELECTRICITY) CAPACITY

This covers the gross installed electrical capacity of thermal, nuclear, hydro, geothermal, wind and any other types of power plants.

INHABITANTS

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

ISG

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

ISIC

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

LFS

The EU Labour Force Survey (LFS) is a large sample survey among private households which provides detailed annual and quarterly data on: employment, unemployment and inactivity.

The LFS is an important source of information about the situation and trends in the EU labour market, with a sample size is about 1.5 million people every quarter.

The data can be broken down along many dimensions including age, sex, educational attainment, and distinctions between permanent/temporary and full-time/part-time employment. In terms of employment figures are more representative of the total sector, but unfortunately not so disaggregated as the SBS survey.

LONG SCALE – SHORT SCALE

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

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

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

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

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:	to the next:
	multiply by 1 000 000	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 ELECTRICITY GENERATION

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

NET IMPORTS

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

OIL AND PETROLEUM PRODUCTS

Oil and petroleum products [04000XBIO] include crude oil [04100_TOT], natural gas liquids [04200], refinery feedstocks [04300], additives and oxygenates (excl biofuel portion) [04400X4410], other hydrocarbons [04500] and the oil products such as LPG [04630], refinery gas [04620], ethane [04620], motor gasoline [04652XR5210B], aviation gasoline [04651], gasoline-type jet fuel [04653], kerosene-type jet fuels [04661XR5230B], other kerosene [04669], naphtha [04640], gas/diesel oil [04671XR5220B], fuel oil [4680], white spirit [04691], lubricants [04692], bitumen [04695], petroleum coke [04694], paraffin waxes [04693] and other oil products [04699].

PRIMARY ENERGY CONSUMPTION

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

PRIMARY ENERGY CONSUMPTION 2020-2030

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

PRIMARY ENERGY INTENSITY 2020-2030

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

PRIMARY ENERGY PRODUCTION – INDIGENOUS PRODUCTION

Primary production [PPRD] is any kind of extraction of energy products from natural sources to a usable form is called primary production. Primary production takes place when the natural sources are exploited, for example in coal mines, crude oil fields, hydro power plants or fabrication of biofuels.

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

PUMPING, PUMPED STORAGE

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

RENEWABLES AND BIOFUELS (RES):

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

SBS

Structural business statistics cover industry, construction, trade and services. Presented according to the NACE activity classification, they describe the structure, conduct and performance of businesses across the European Union.

SOLAR ENERGY

Solar energy is solar radiation exploited for hot water production – solar thermal [RA410] and electricity generation – solar photovoltaic [RA420]. This energy production, is the heat available to the heat transfer medium, i.e. the incident solar energy less the optical and collectors' losses.

SOLID FOSSIL FUELS

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

TONNE OF OIL EQUIVALENT (toe)

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

TOTAL ENERGY SUPPLY

Total energy supply [NRGSUP] is one of the most important aggregate of energy balance and represents the quantity of energy necessary to satisfy inland consumption (inland fuel deliveries) of the geographical entity under consideration.

Total energy supply is the sum of Primary production [PPRD], Recovered & recycled products [RCV_RCY], Imports [IMP] from which are subtracted: Exports [EXP], Stock changes [STK_CHG], International maritime bunkers [INTMARB] and international aviation [INTAVI].

Total Energy Supply is also equivalent to Gross Inland Consumption [GIC] minus International Aviation [INTAVI].

TOTAL PRIMARY ENERGY SUPPLY

Total primary energy supply [TPES] is an IEA energy flow, defined as the quantity of energy necessary to satisfy inland consumption of the geographical entity under consideration. It is equal to the indigenous production + imports – exports – international marine bunkers – international aviation bunkers +/- stock changes. It corresponds to the Eurostat's Total energy supply [NRGSUP].

TRANSFORMATION INPUT

Transformation input [TI_E] covers all inputs into the transformation plants destined to be converted into derived products. Transformation is only recorded when the energy products are physically or chemically modified to produce other energy products, electricity and/or heat. Quantities of fuels used for heating, operation of equipment and in general in support of the transformation are not included in Transformation input but in Energy sector [NRG_E].

Transformation Input is the sum of the inputs for electricity & heat generation plants [TI_EHG_E], coke ovens [TI_CO_E], blast furnaces [TI_BF_E], gas works [TI_GW_E], refineries & petrochemical industry [TI_RPI_E], patent fuel plants [TI_PF_E], BKB & PB plants [TI_BKBPB_E], coal liquefaction plants [TI_CL_E], for blended natural gas [TI_BNG_E], liquid biofuels blended [TI_LBB_E], charcoal production plants [TI_CPP_E], gas-TI-liquids plants [TI_GTL_E] and others not elsewhere specified [TI_NSP_E].

TRANSFORMATION LOSSES

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

TRANSFORMATION OUTPUT

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

TURNOVER

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

UNEMPLOYMENT RATE

The unemployment rate represents unemployed persons as a percentage of the active population.

Appendix Notes

Appendix 8 – Notes

APPENDIX 8.1

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 37-39**

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

2.1.2, PAGES 40-42

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

2.1.4, PAGES 44-47

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

2.2.1, PAGES 49-53

Solid fossil fuels – see glossary

2.2.2, PAGES 54-58

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

2.3, PAGES 71-77

See glossary energy import dependency.

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

2.5.1, PAGE 84

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

2.5.2, PAGE 85

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

2.5.3, PAGES 86-89

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

2.6.1, PAGES 90-92

Installed capacity represents the maximum active power that can be supplied, continuously, with all systems running.

Please note that combustible fuels include not only fossil fuels, as well as biomass and wastes, that are later included, also, in the renewables installed capacity.

2.6.2, PAGES 93-97

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

2.7.1, PAGES 99-100

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

2.7.2-2.7.8, PAGES 101-108

Wind and solar energy generated by all producers. Annual installed capacity includes new installations and replacement of former wind or solar systems.

2.7.3, 2.7.4, PAGES 103-104

Gross electricity production wind share measures the percentage of wind produced electricity in the total production.

Average capacity factor it is the ratio of actual energy output of wind sources against its annual maximum potential output. It is equal to the total annual electricity production, divided by the cumulative capacity converted to an average statistical year base.

2.7.8, PAGE 108

Gross electricity production solar share measures the percentage of solar produced electricity in the total production.

2.8, PAGES 110-112

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

2.9, PAGES 113-115

Data is generated by the annual heat survey. Heat, in these tables, include the total heat produced, including losses in the installations/network heat exchanges, as well as heat from chemical processes used as primary energy form. Only heat sold to third parties is here reported.

2.10, PAGES 116-118

The tables include the total final energy consumption of petroleum products, and two of its main products: motor gasoline [O4652XR5210B], and Gas oil and diesel oil [O4671XR5220B], and the total final energy consumption of biofuels with its two main products: biogasoline [R5210] and biodiesel [R5220].

2.11.1, PAGE 119

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

2.11.4, PAGE 122

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

2.13, PAGES 129-135

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

PETROLEUM PRODUCTS

Heating gasoil, low sulphur fuel oil, unleaded petrol and automotive diesel prices are supplied by the Member States to DG ENERGY as those being the most frequently encountered for the specific categories of sales. The prices are as of January 15th in each year.

The heating gasoil prices given are for deliveries of between 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 141-152

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

3.3, PAGES 153-156

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

3.5, PAGES 158-160

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

APPENDIX 8.4

4.1.1, PAGES 164-168

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

4.1.2 PAGES 169-173

Structure of emissions similar to the GHG emissions.

APPENDIX 8.5

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

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