European Commission

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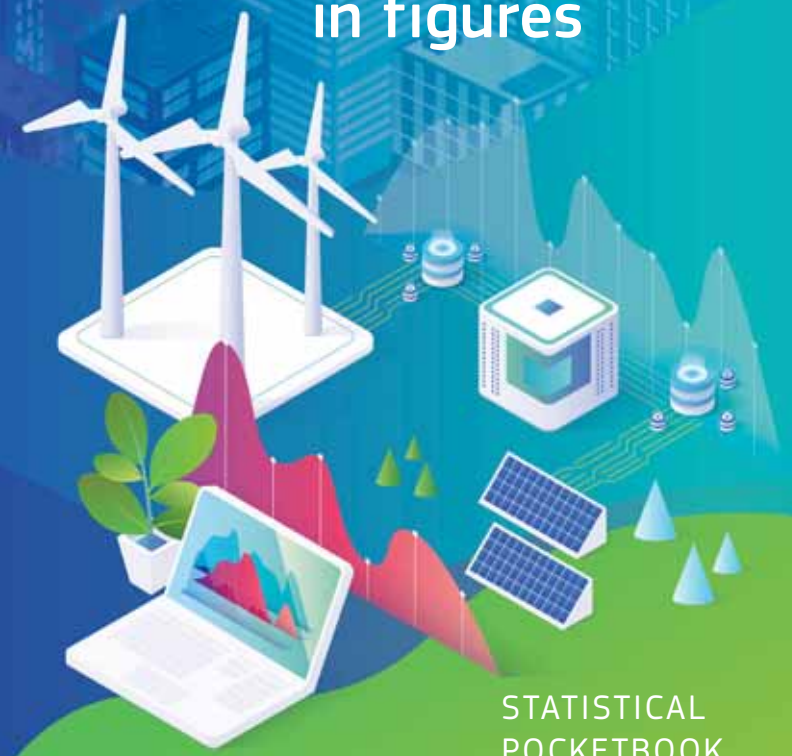
EU energy in figures



STATISTICAL POCKETBOOK

2020

Energy

Manuscript completed in August 2020

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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.

Summary

PART 1 Overview

PART 2 Energy in the EU

Appendices

1 Overview

Overview

Summary

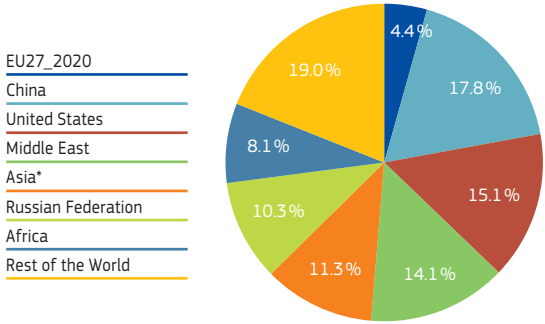
1.1 Energy in the World (Overview)

1.1.1 World Energy Production by Region

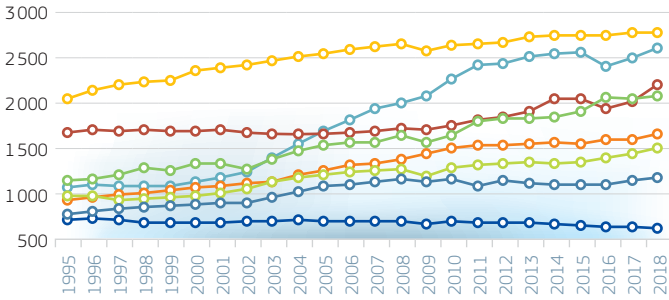
(Mtoe)

	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



Mtoe



* non OECD and OECD Asia, excluding China.

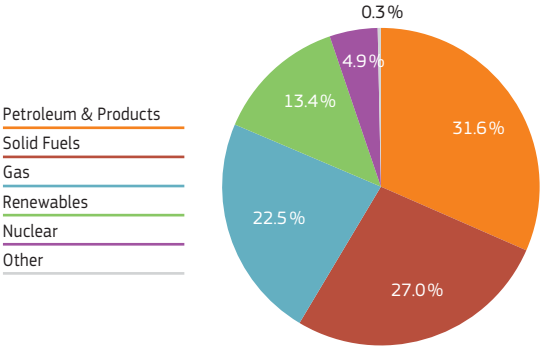
Source: IEA Statistics, August 2020
Methodology and Notes: **See Appendices**

1.1.2 World Energy Production by Fuel

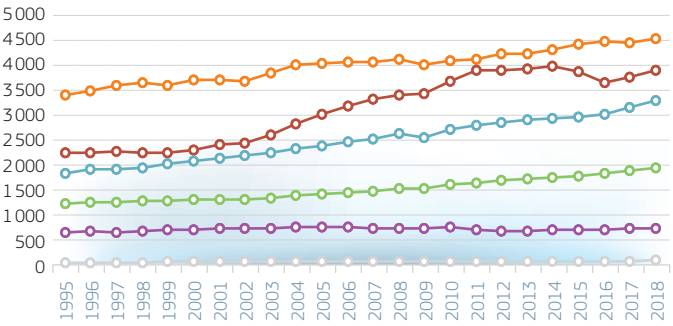
(Mtoe)

	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



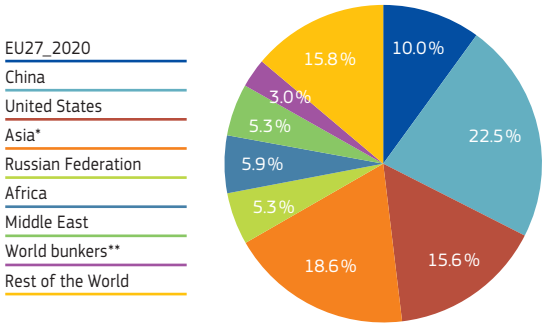
Source: IEA Statistics, August 2020
Methodology and Notes: See Appendices

1.1.3 World Total Energy Supply by Region

(Mtoe)

	2000	2005	2010	2015	2017	2018
EU27_2020	1471	1573	1527	1408	1443	1428
China	1143	1794	2550	3006	3079	3211
United States	2274	2319	2217	2186	2155	2231
Asia*	1762	1980	2287	2465	2588	2656
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	1646	1804	1923	1952	1976	1979
World	10034	11494	12845	13583	13951	14282

TOTAL 2018: 14282 Mtoe



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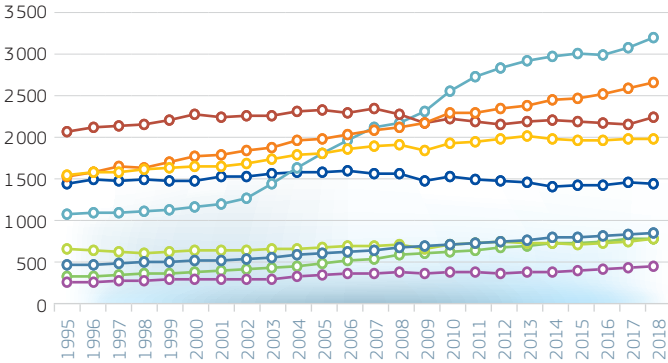


* non OECD and OECD Asia, excluding China.
** International aviation and international navigation.

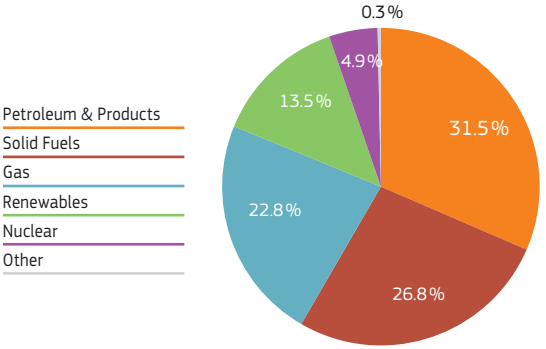
Source: IEA Statistics, August 2020
Methodology and Notes: **See Appendices**

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: 14 282 Mtoe



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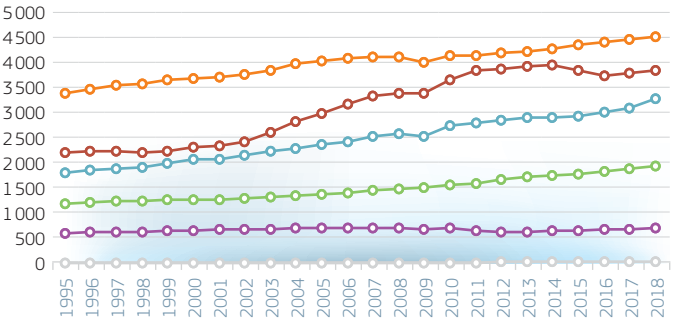


* Partial disaggregation of the Renewables group. Waste also includes non-RES wastes.

Source: IEA Statistics, August 2020

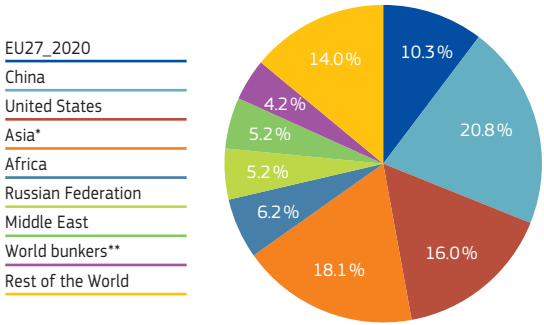
Methodology and Notes: See Appendices

1.1.5 World Total Final Consumption by Region

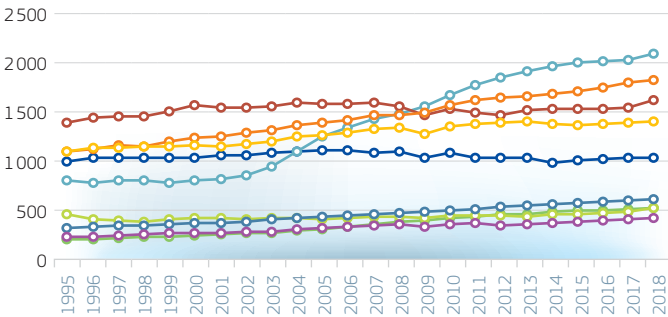
(Mtoe)

	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: 9938 Mtoe



Mtoe



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

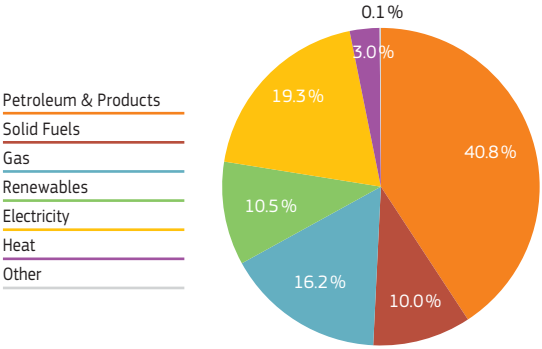
Source: IEA Statistics, August 2020
Methodology and Notes: **See Appendices**

1.1.6 World Total Final Consumption by Fuel

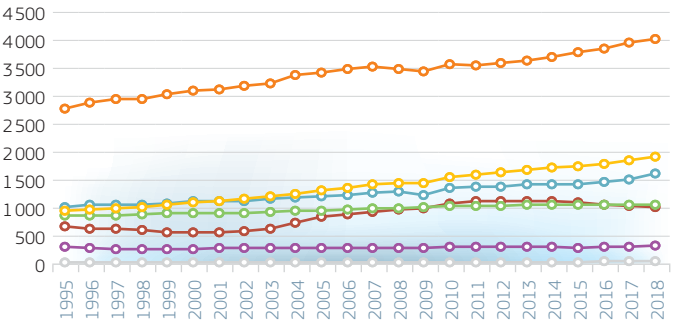
(Mtoe)

	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

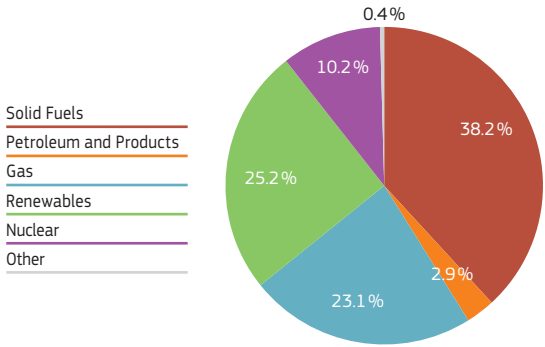


Source: IEA Statistics, August 2020
Methodology and Notes: See Appendices

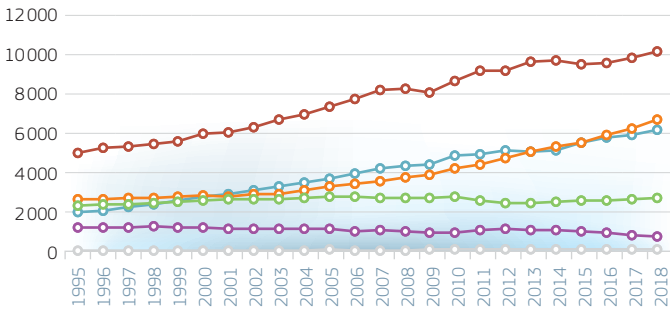
1.1.7 World Electricity Generation by Fuel (TWh)

	2000	2005	2010	2015	2017	2018
Solid Fuels	5994	7317	8662	9534	9860	10160
Petroleum and Products	1184	1129	970	1028	846	784
Gas	2775	3706	4842	5526	5889	6150
Renewables	2829	3296	4203	5522	6268	6700
Hydro*	2613	2935	3448	3894	4071	4214
Solar/Wind/Other*	54	140	408	1126	1622	1871
Biofuels and Waste*	163	228	367	517	598	637
Geothermal*	52	58	68	81	85	89
Nuclear	2591	2768	2756	2570	2636	2710
Other	54	67	90	100	112	115
Total	15427	18283	21524	24280	25612	26619

TOTAL 2018: 26619 TWh



TWh



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

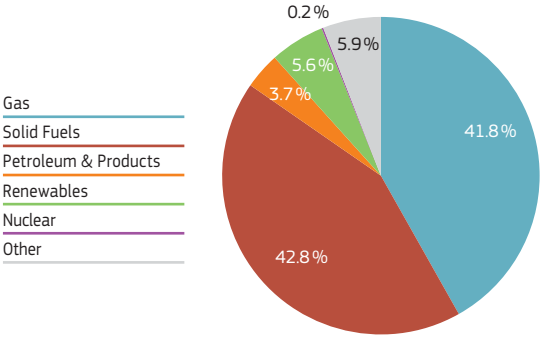
Source: IEA Statistics, August 2020
Methodology and Notes: **See Appendices**

1.1.8 World Heat Generation by Fuel

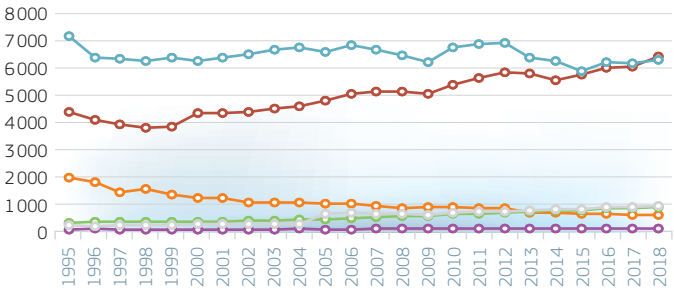
(PJ)

	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: 15 023 PJ



PJ



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

Source: IEA Statistics, August 2020

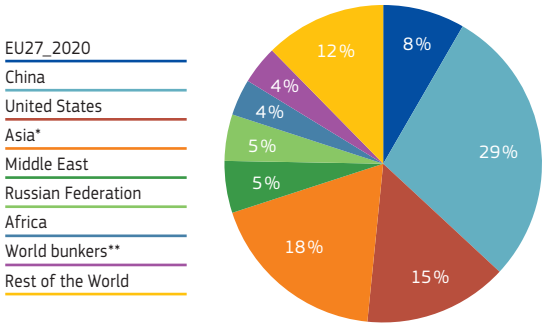
Methodology and Notes: **See Appendices**

1.1.9 World CO_2 Emissions by Region

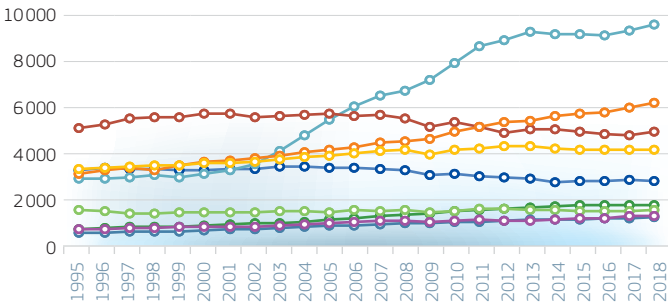
(Mio ton CO_2)

	2000	2005	2010	2015	2017	2018
EU27_2020	3266	3391	3136	2826	2854	2799
China	3140	5449	7873	9137	9290	9571
United States	5730	5703	5352	4929	4761	4921
Asia*	3646	4159	4921	5695	5978	6168
Middle East	880	1148	1493	1748	1781	1773
Russian Federation	1474	1482	1529	1534	1537	1587
Africa	663	869	1025	1166	1204	1245
World bunkers**	855	991	1119	1184	1281	1312
Rest of the World	3586	3887	4134	4144	4152	4139
World	23241	27078	30582	32366	32837	33513

TOTAL 2018: 33513 Mio ton CO_2



Mio ton CO_2



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

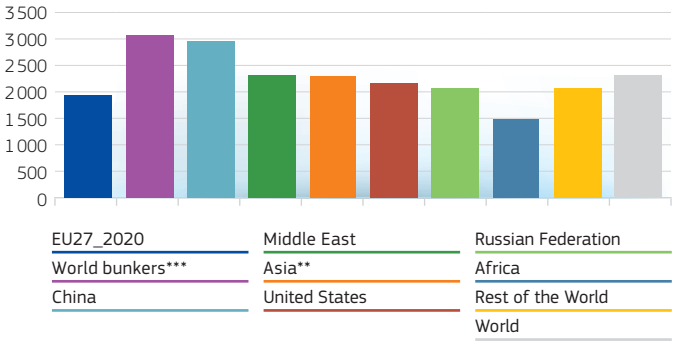
Sources: IEA Statistics, May 2020, estimates of world CO_2 emissions from fuel combustion
Methodology and Notes: **See Appendices**

1.1.10 World CO_2 Intensity* by Region

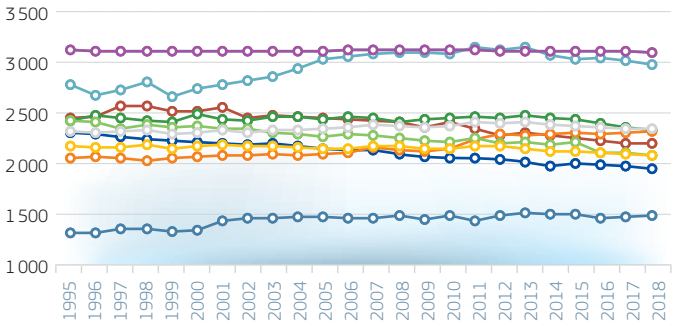
(Kg CO_2 per toe – Average)

	2000	2005	2010	2015	2017	2018
EU27_2020	2 220	2 155	2 054	2 007	1 978	1 960
World bunkers***	3120	3120	3124	3110	3109	3107
China	2746	3037	3088	3039	3017	2981
Middle East	2492	2448	2453	2437	2360	2333
Asia**	2069	2100	2152	2311	2309	2322
United States	2520	2459	2414	2254	2209	2206
Russian Federation	2380	2274	2219	2215	2109	2090
Africa	1351	1483	1495	1507	1479	1488
Rest of the World	2178	2154	2150	2123	2102	2092
World	2316	2356	2381	2383	2354	2347

WORLD AVERAGE 2018: 2347 Kg CO_2 per toe



Kg CO_2 per toe

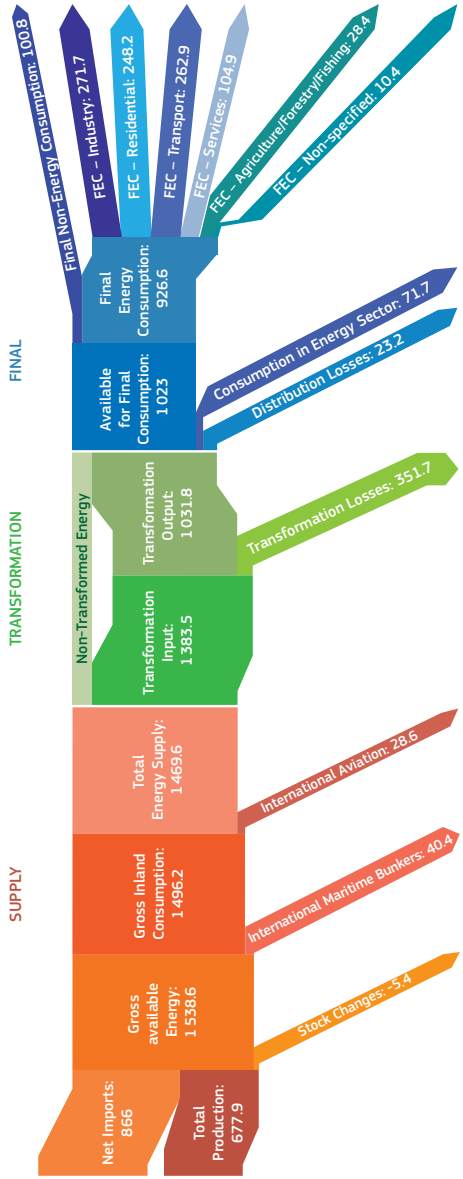


* CO_2 Emissions from Fuel Combustion per Unit of Total Energy Supply.
** non OECD and OECD Asia, excluding China and Middle East.
*** International aviation and international navigation.

Source: IEA Statistics, August 2020.
Methodology and Notes: See Appendices

1.2 Energy in the EU (Overview)

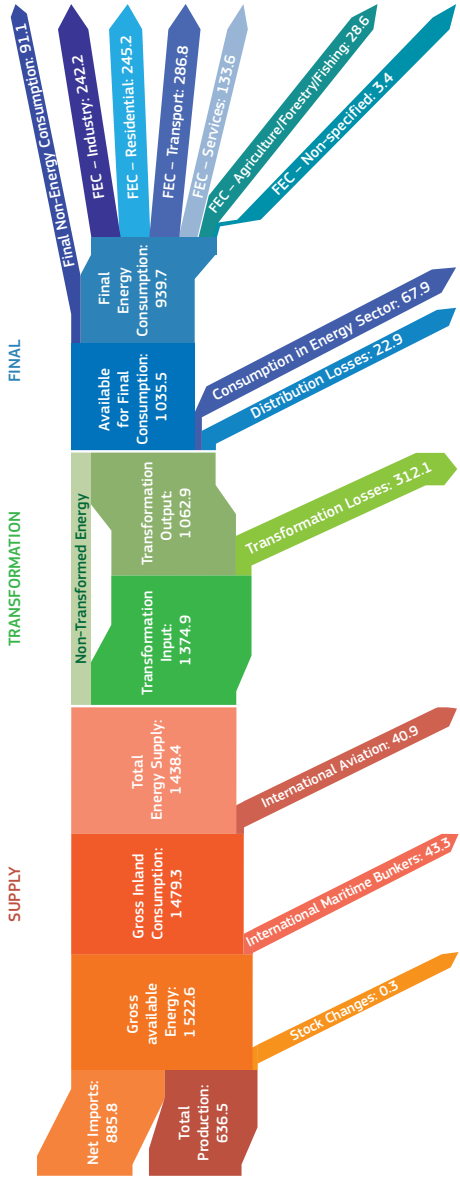
1.2.1 EU27_2020 Energy Flow – 2000 (Mtoe)



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

1.2.2 EU27_2020 Energy Flow – 2018

(Mtoe)

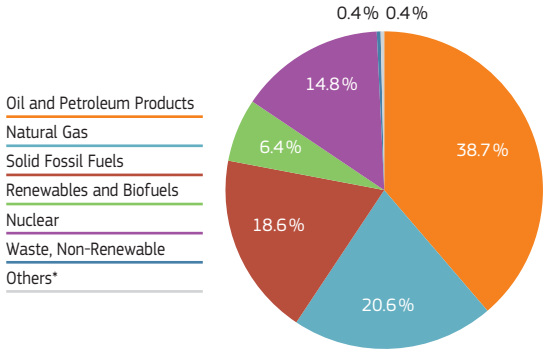


Source: Eurostat, May 2020
Methodology and Notes: **See Appendices**

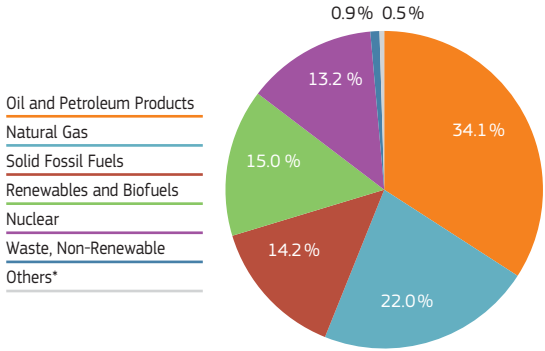
1.2.3 EU27_2020 Gross Inland Consumption

ENERGY MIX (%) – PRIMARY PRODUCTS ONLY

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



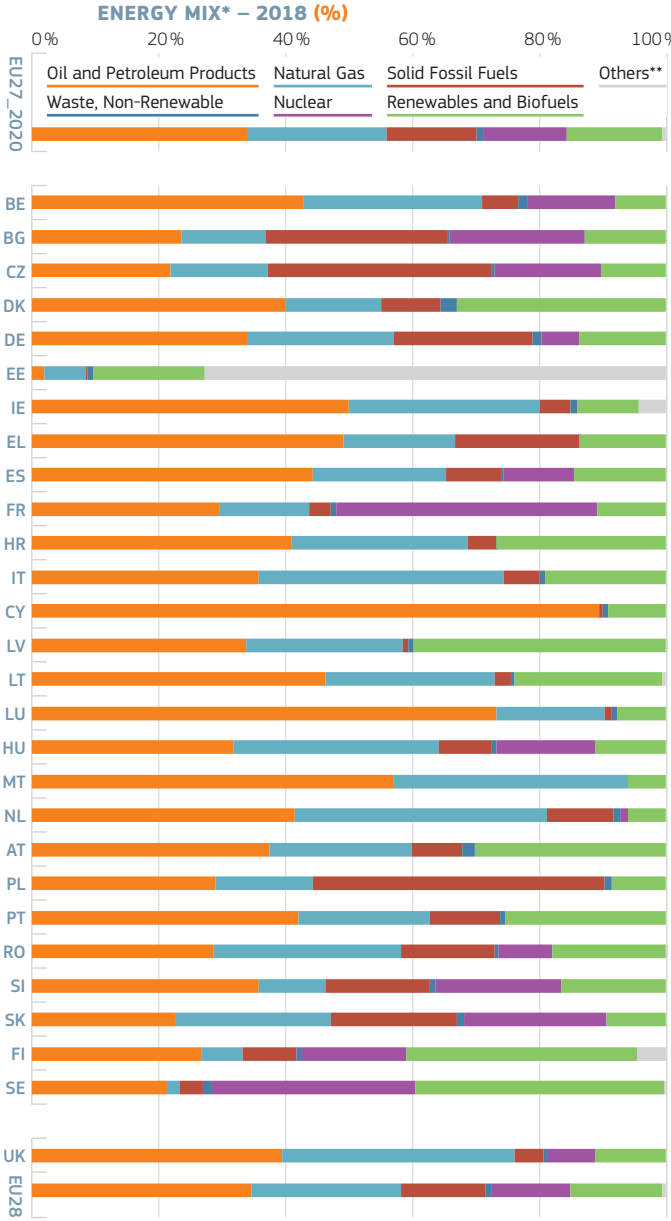
TOTAL PRIMARY PRODUCTS 2018: 1 477.9 Mtoe
(Total Primary and Secondary Products 2018: 1 479.3 Mtoe)



* 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.

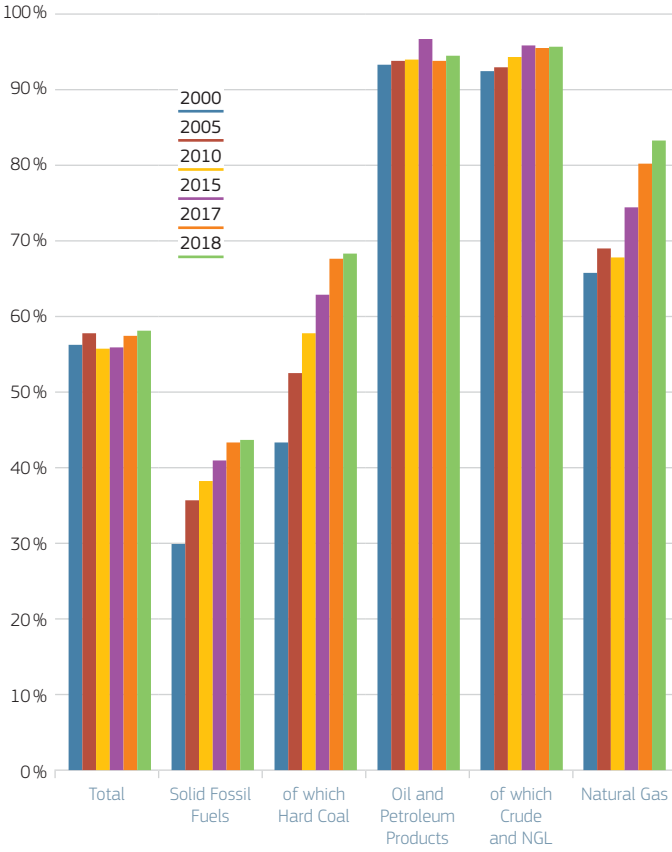
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

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

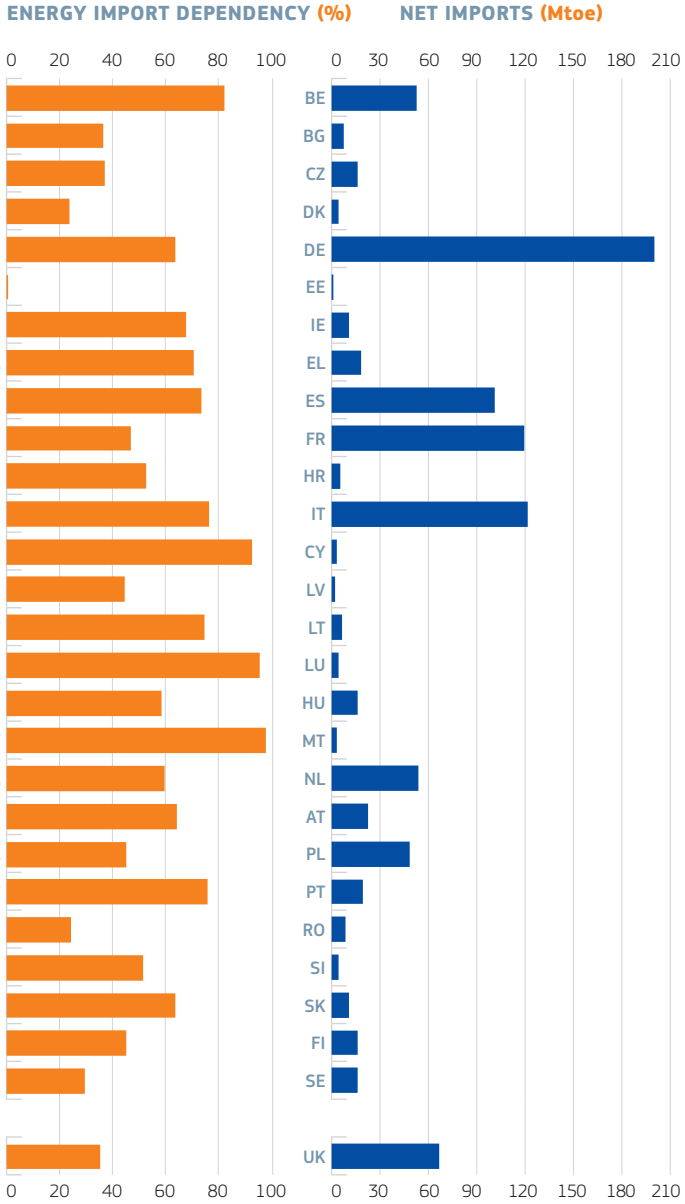
2000-2018 (%)



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

1.2.5 EU27_2020 Energy Import Dependency – Net Imports

2018

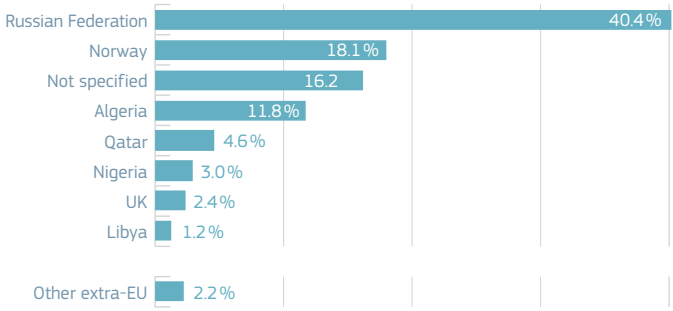


Source: Eurostat, May 2020
Methodology and Notes: See Appendices

1.2.6 EU27_2020 Imports by Country of Origin

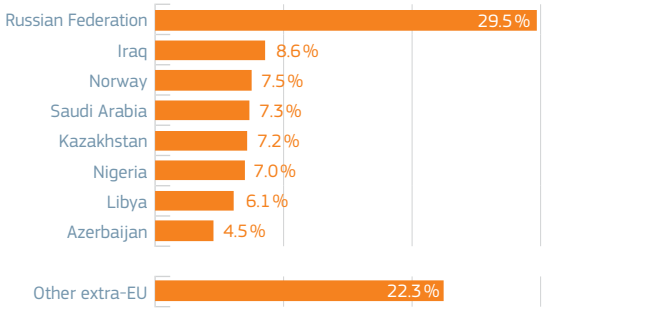
EU27_2020 IMPORTS* OF NATURAL GAS – 2018

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



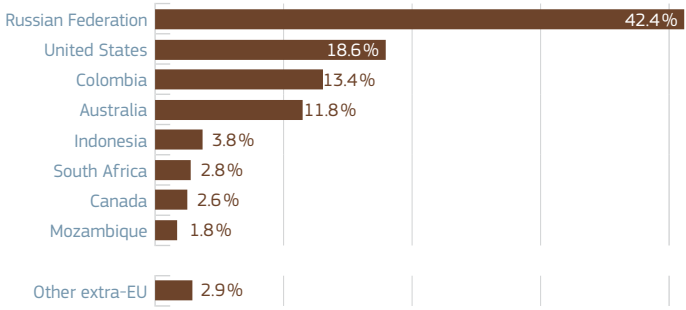
EU27_2020 IMPORTS* OF CRUDE OIL AND NGL – 2018

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*

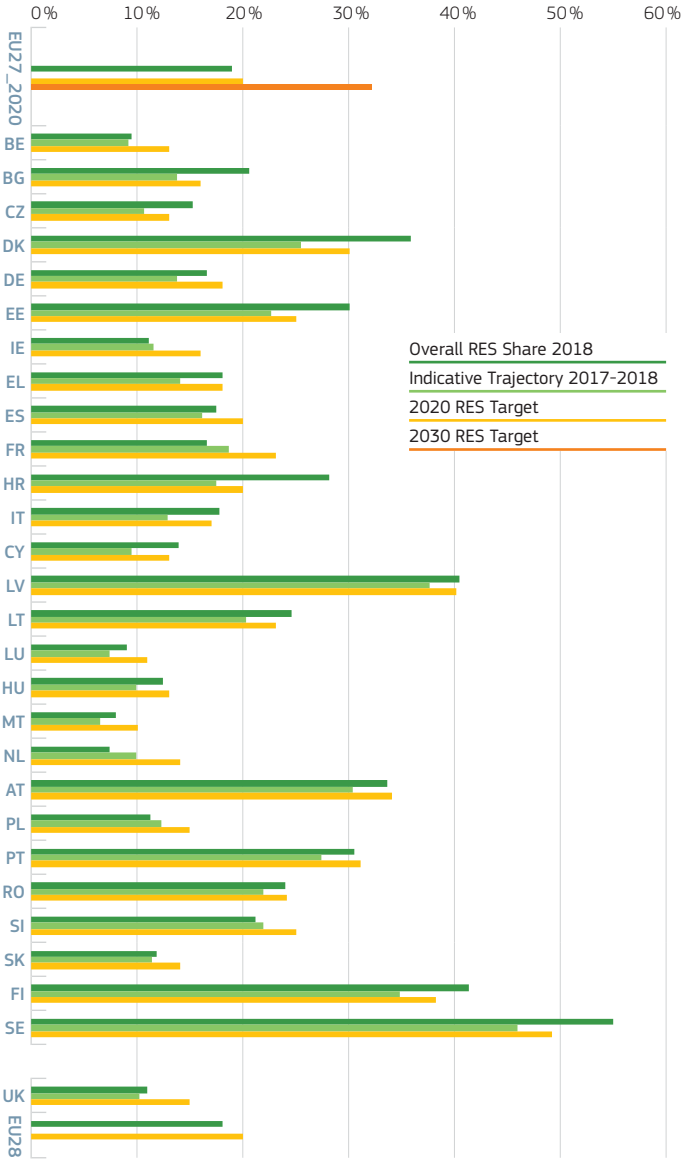
%	2018 Renewable Energy Shares				Indicative 2018/2019	2020 RES Target	2030 RES Target
	RES Transport	RES Electricity	RES Heating and Cooling	Overall RES Share			
EU27_2020	8.3	32.2	21.1	18.9	n.a.	20	32
BE	6.6	18.9	8.2	9.4	9.2	13.0	
BG	8.1	22.1	33.3	20.5	13.7	16.0	
CZ	6.5	13.7	20.6	15.2	10.6	13.0	
DK	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 (%)

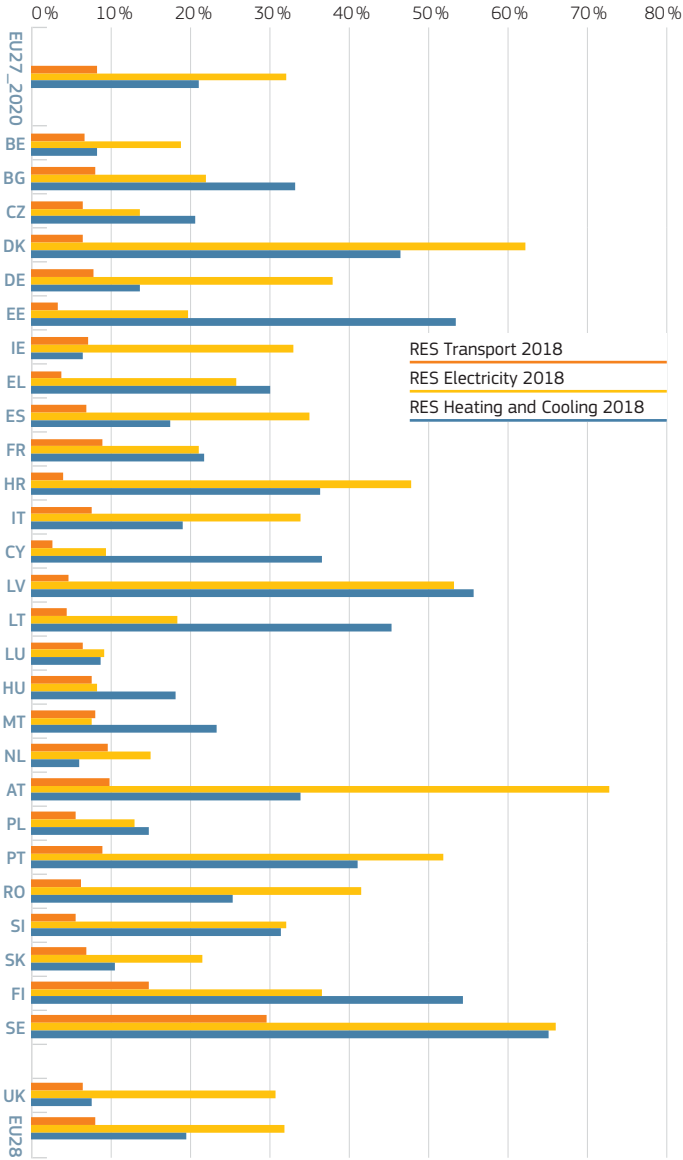


* In Gross Final Energy Consumption.

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.

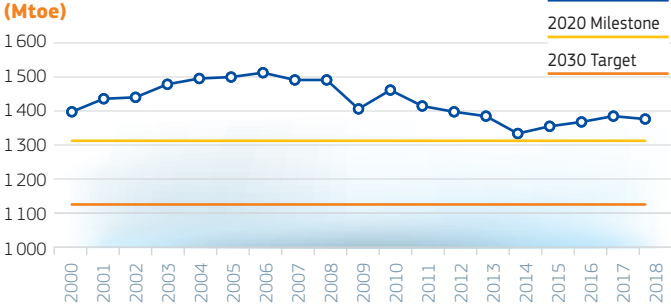
Source: Eurostat-RES SHARES, March 2020
Methodology and Notes: See Appendices

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.

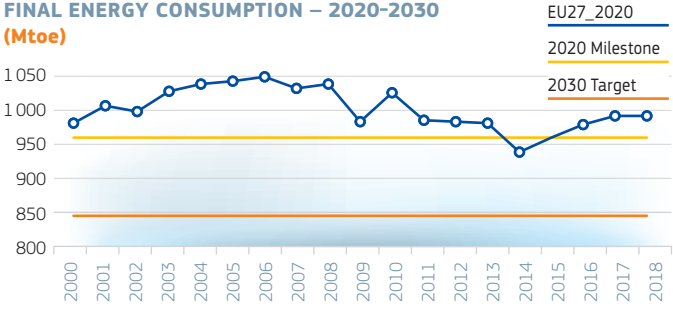
Source: Eurostat, May 2020
Methodology and Notes: **See Appendices**

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	1040.8	1024.0	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	1193.8	1167.1	1090.3	1122.6	1123.9	1086	

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

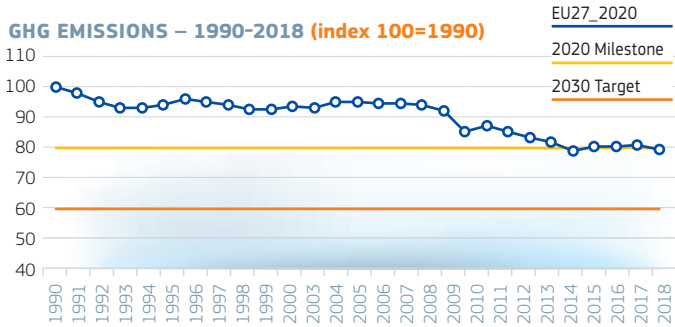
1.3.4 EU 2020-2030 Targets*

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**

STATISTICAL POCKETBOOK **2020**

Energy in the EU

Energy in the EU

Summary

2.1 Energy Supply

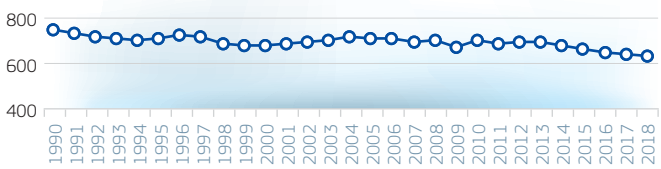
2.1.1 Production*

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						
Mtoe	Nuclear	Solid Fossil Fuels	Renewables & biofuels	Natural Gas	Oil & Petroleum products	Wastes, Non-Renewable	Peat, Oil Shale & Oil Sands
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

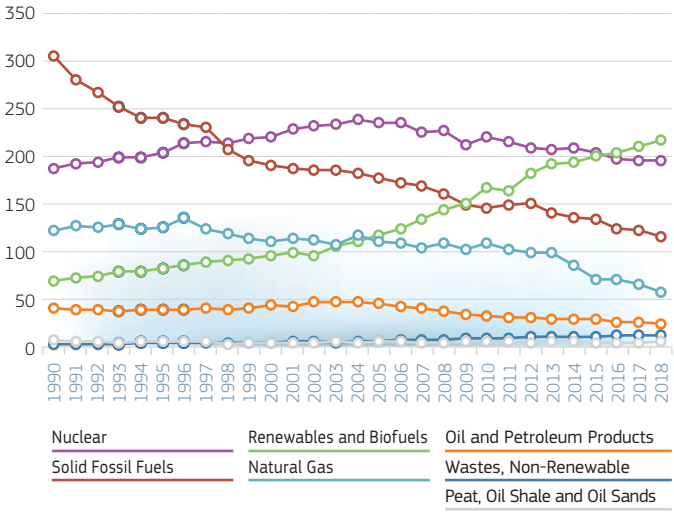
* Primary production. recycled and recovered products.

Source: Eurostat, May 2020

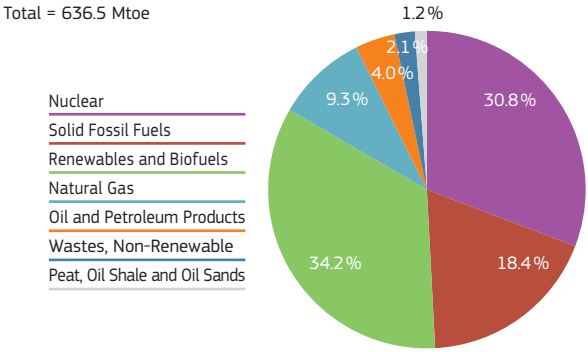
Methodology and Notes: **See Appendices**

2.1.1 Production*

BY FUEL – EU27_2020 – 1990-2018 (Mtoe)



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



* Primary production , recycled and recovered products.

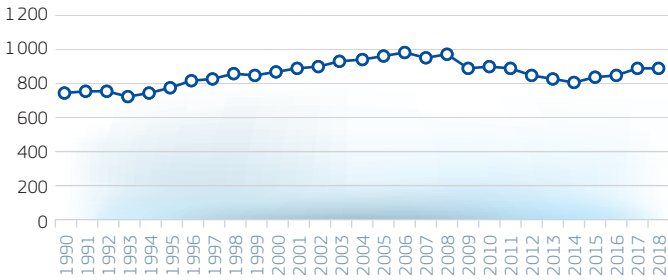
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

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

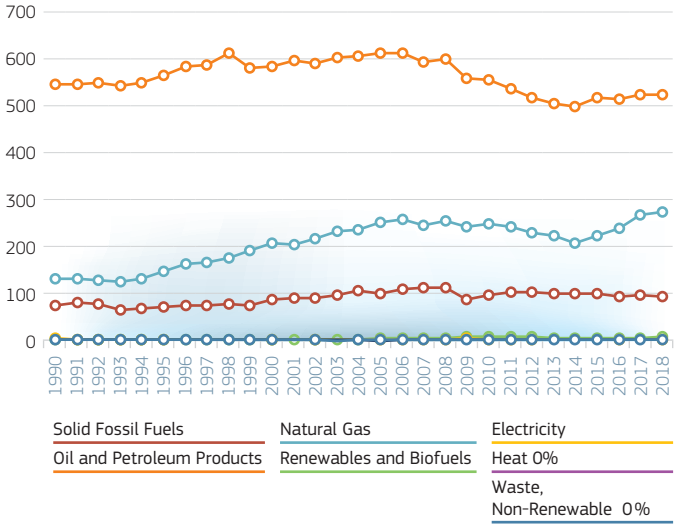
BY FUEL

	2018					
Mtoe	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

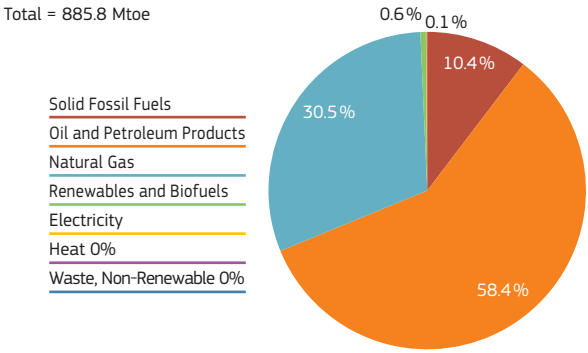
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

2.1.2 Net Imports

BY FUEL – EU27_2020 – 1990-2018 (Mtoe)



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



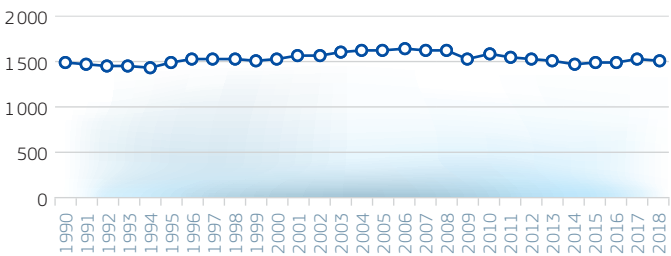
Source: Eurostat, May 2020
Methodology and Notes: **See Appendices**

2.1.3 Gross Available Energy

ALL FUELS

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	1538.56	1650.73	1606.33	1488.52	1533.59	1522.58
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	1773.90	1887.59	1822.12	1681.98	1721.74	1710.17

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



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

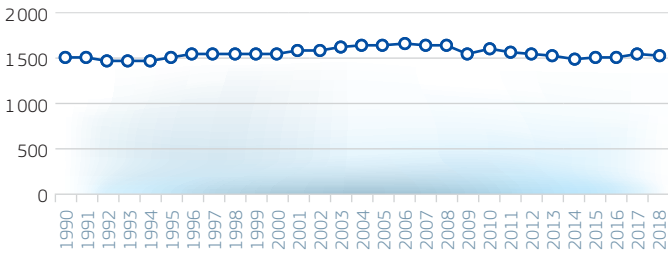
2.1.4 Gross Inland Consumption

ALL FUELS

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	1498.18	1603.53	1559.63	1449.03	1491.68	1479.27
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	1731.45	1838.36	1772.65	1639.96	1677.57	1664.40

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

Mtoe	2018							
	Oil & Petroleum Products	Natural Gas	Solid Fossil Fuels	Renewables & Biofuels	Nuclear	Waste, Non-Renewable	Electricity	Others*
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

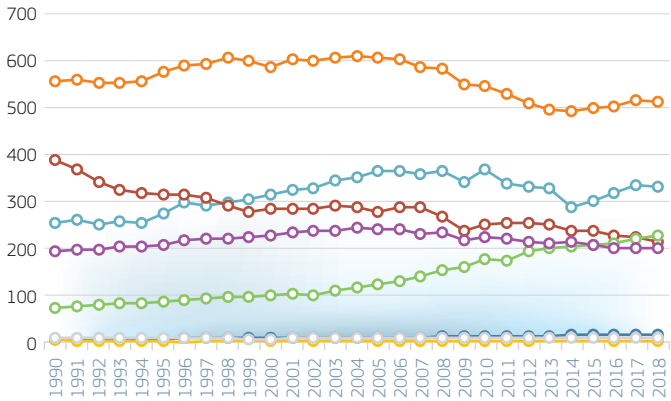
RENEWABLES AND BIOFUELS

	2018								
Mtoe	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**

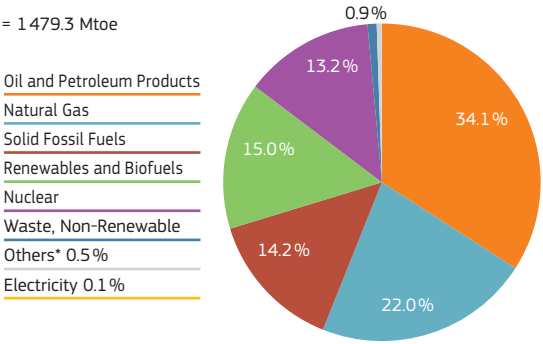
2.1.4 Gross Inland Consumption

BY FUEL – EU27_2020 – 1990-2018 (Mtoe)



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

Total = 1 479.3 Mtoe



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

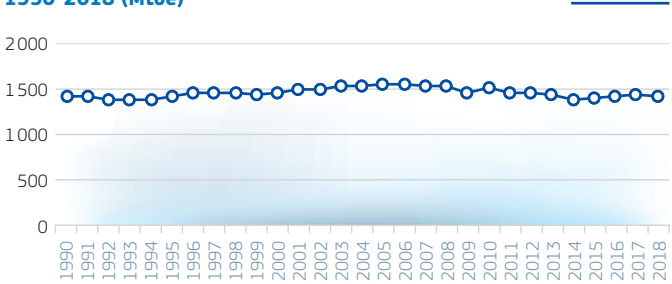
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

2.1.5 Total Energy Supply

ALL FUELS

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	1469.61	1572.39	1527.50	1414.51	1452.81	1438.36
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	1692.17	1794.93	1729.58	1594.38	1626.80	1611.50

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



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

2.2 Energy Imports

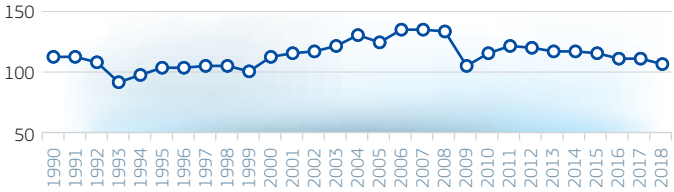
2.2.1 Imports – Solid Fossil Fuels

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

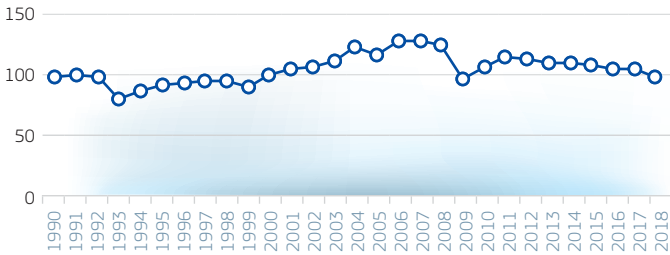
2.2.1 Imports – Solid Fossil Fuels

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

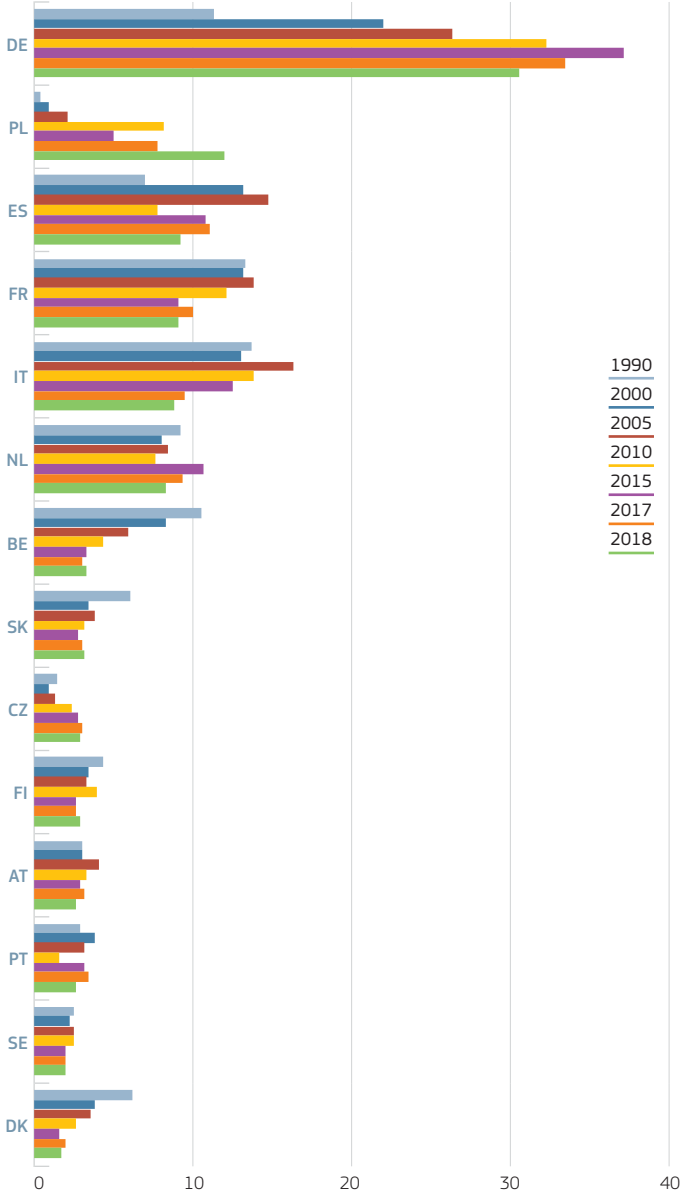
RANKING

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

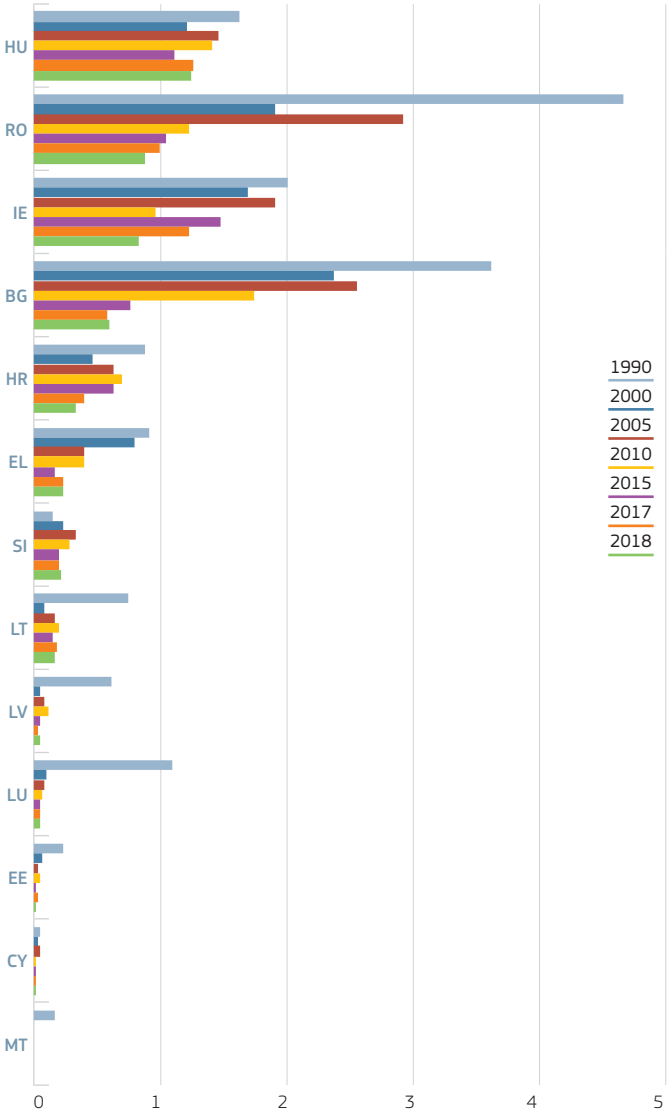
BY MEMBER STATE – TOP 14 IMPORTERS
1990-2018 (Mtoe)



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

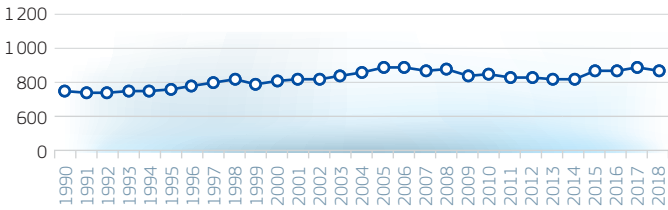
2.2.2 Imports – Oil and Petroleum Products

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



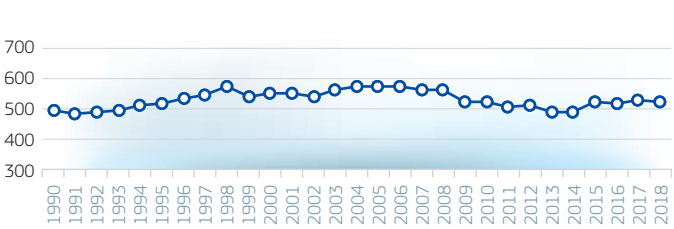
Source: Eurostat, May 2020
Methodology and Notes: **See Appendices**

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)



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

2.2.2 Imports – Oil and Petroleum Products

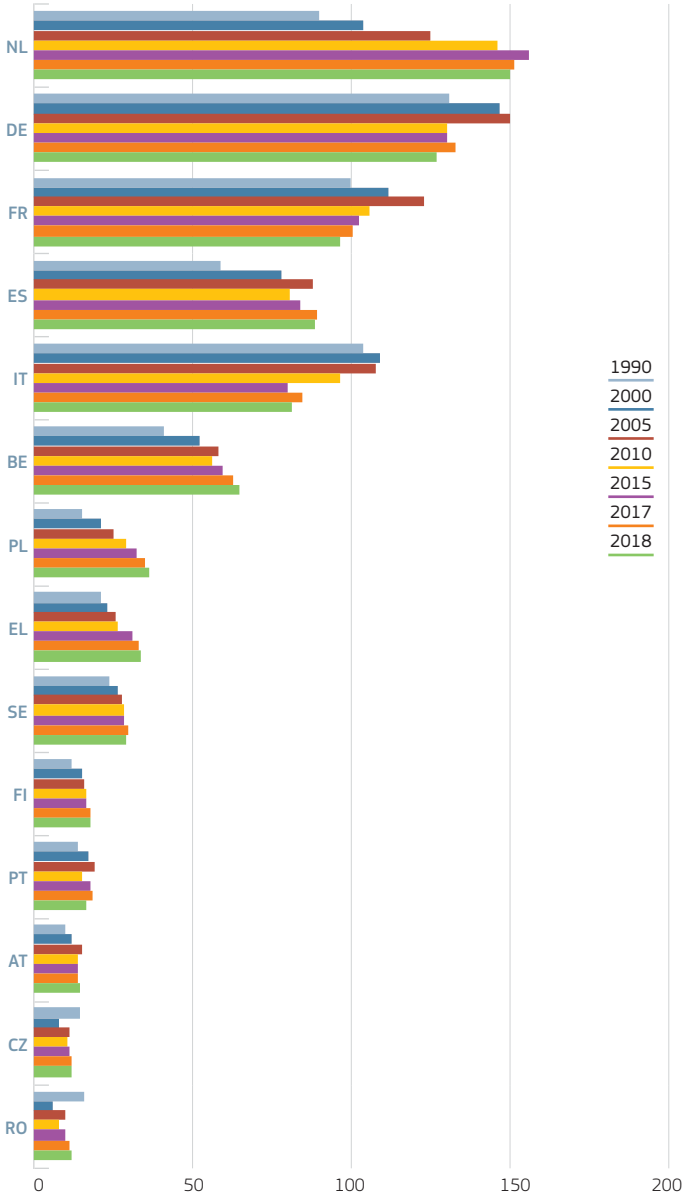
RANKING

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 %

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

2.2.2 Imports – Oil and Petroleum Products

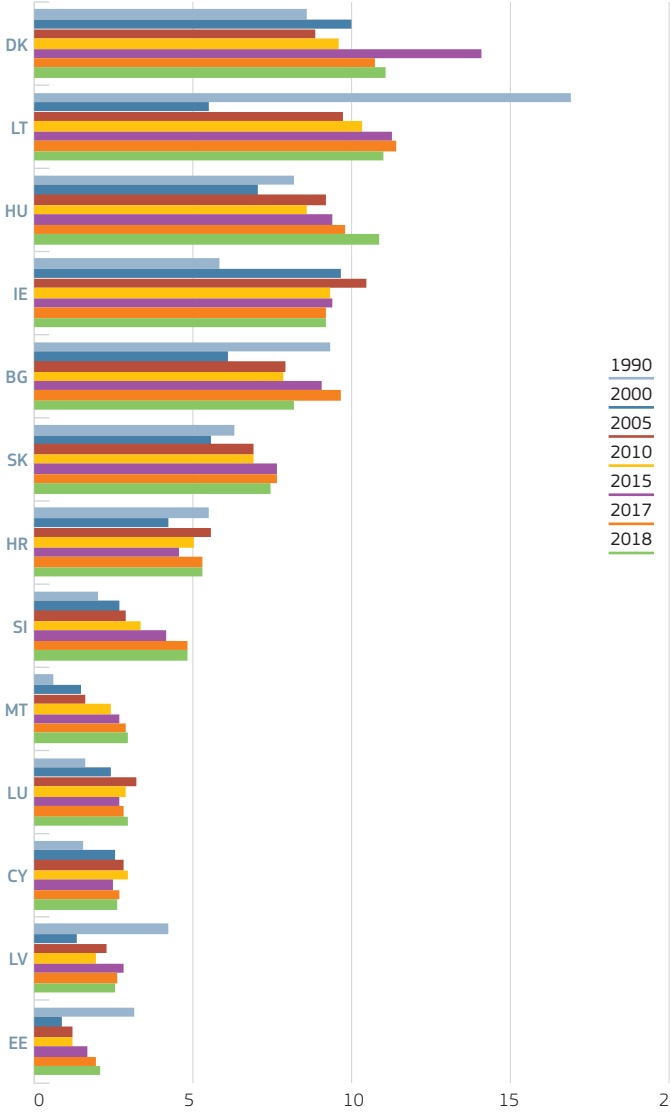
BY MEMBER STATE – TOP 14 IMPORTERS
1990-2018 (Mtoe)



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

2.2.2 Imports – Oil and Petroleum Products

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



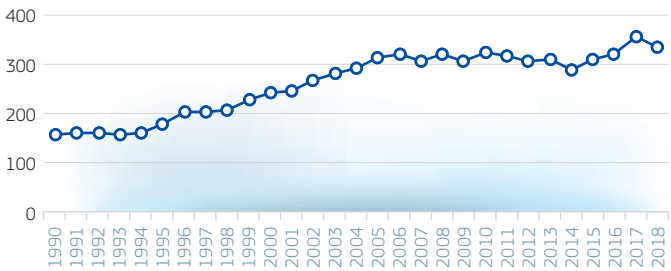
Source: Eurostat, May 2020
Methodology and Notes: **See Appendices**

2.2.3 Imports – Natural Gas

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

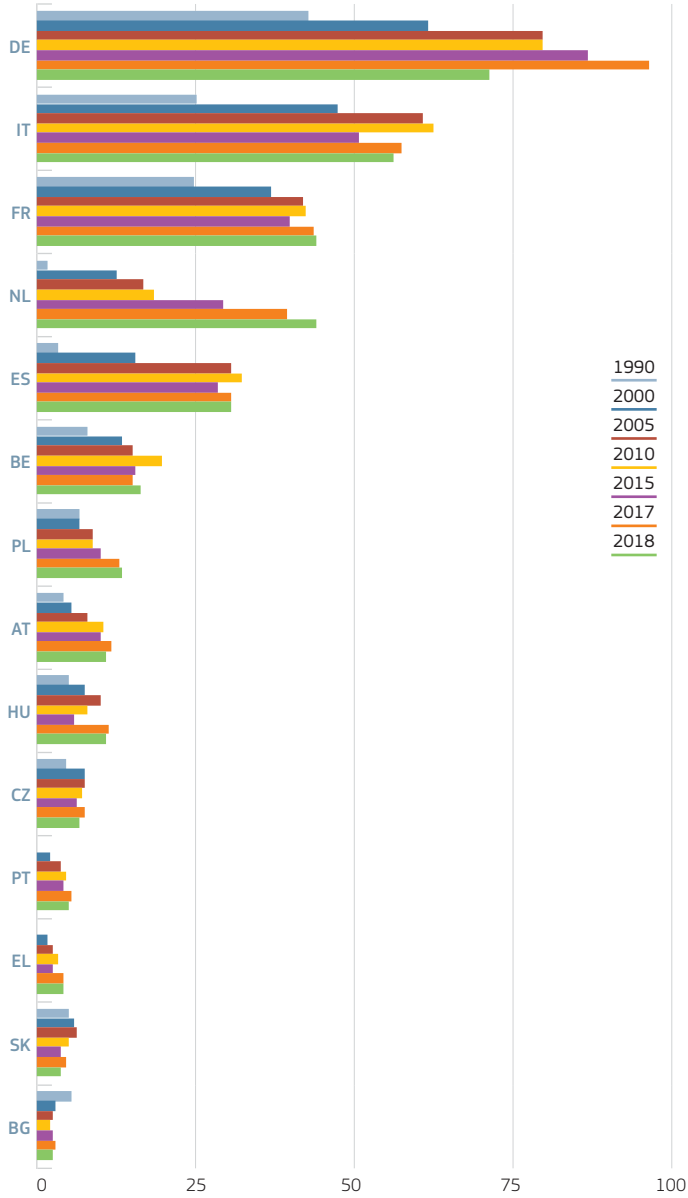
RANKING

Mtoe and %	2000			2018		
EU27_2020 Ranking	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%

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

2.2.3 Imports – Natural Gas

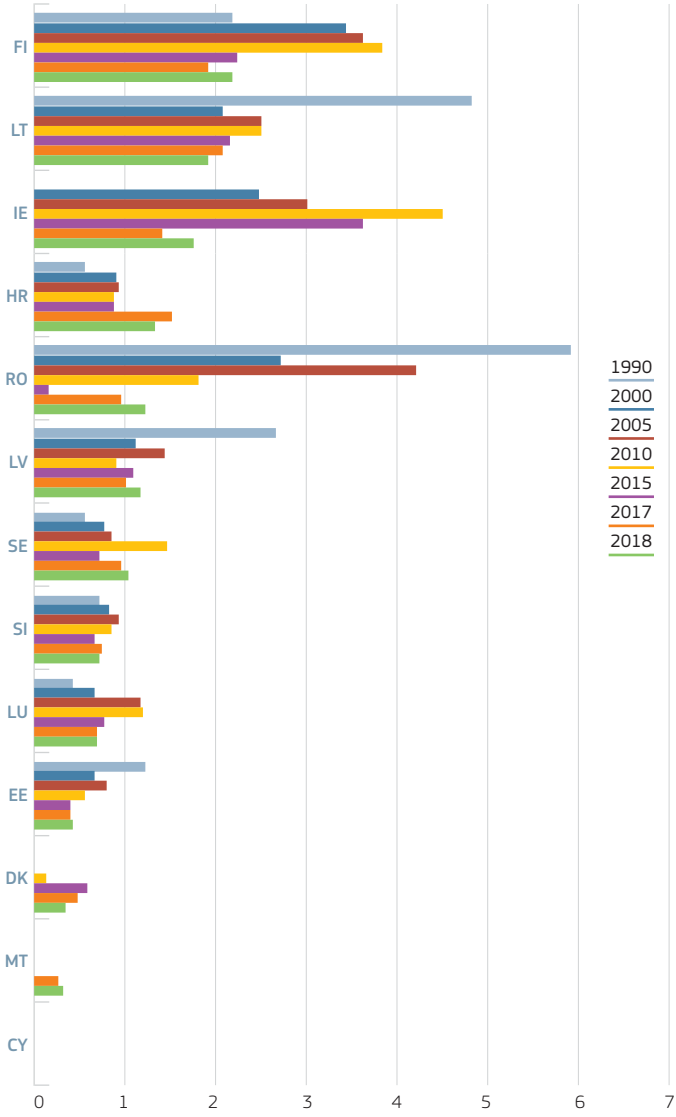
BY MEMBER STATE – TOP 14 IMPORTERS
1990-2018 (Mtoe)



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

2.2.3 Imports – Natural Gas

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



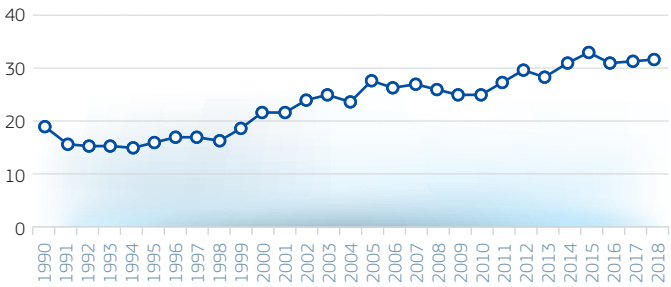
Source: Eurostat, May 2020
Methodology and Notes: **See Appendices**

2.2.4 Imports – Electricity

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

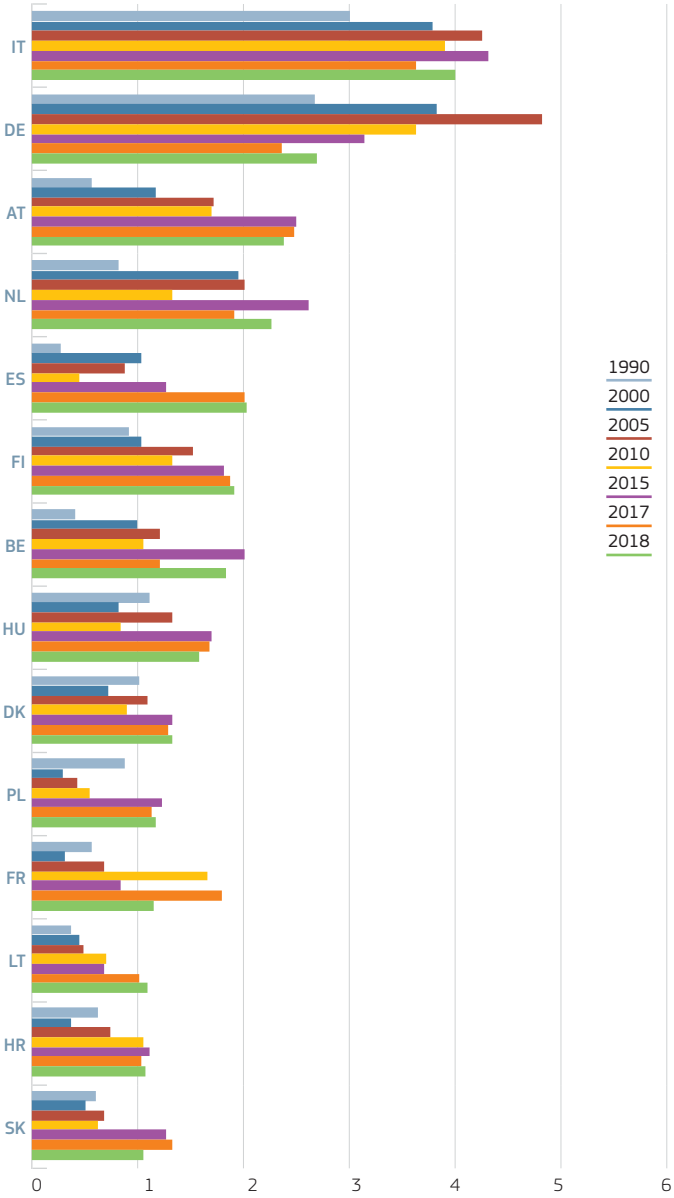
RANKING

Mtoe and %	2000			2018		
EU27_2020 Ranking	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 %

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

2.2.4 Imports – Electricity

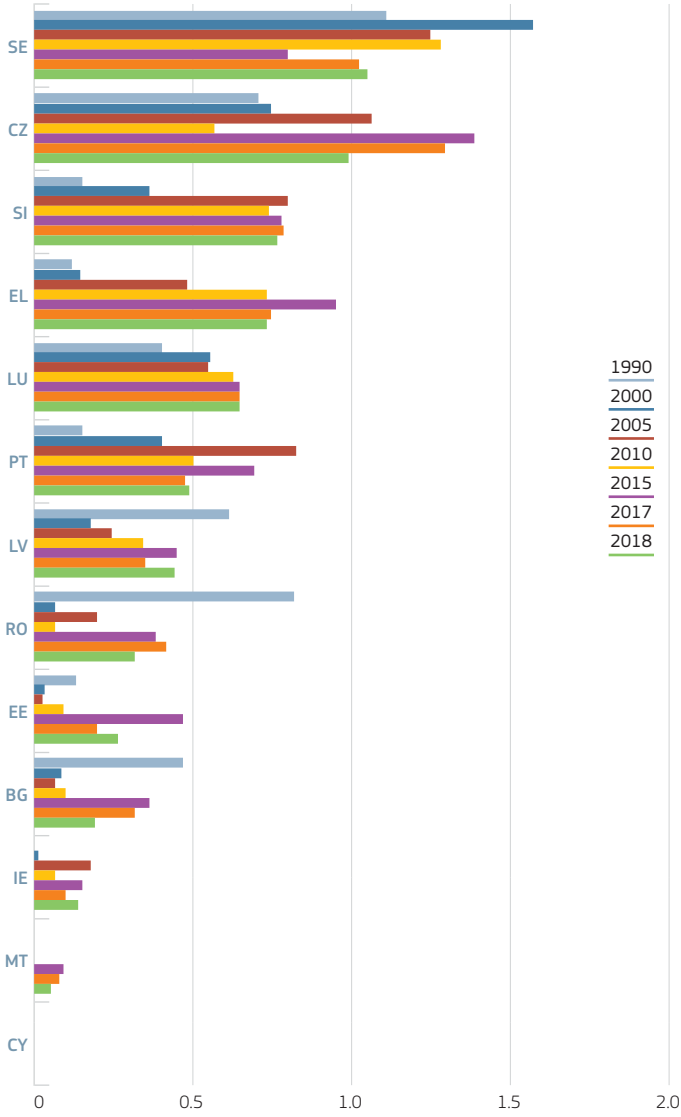
BY MEMBER STATE – TOP 14 IMPORTERS
1990-2018 (Mtoe)



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

2.2.4 Imports – Electricity

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



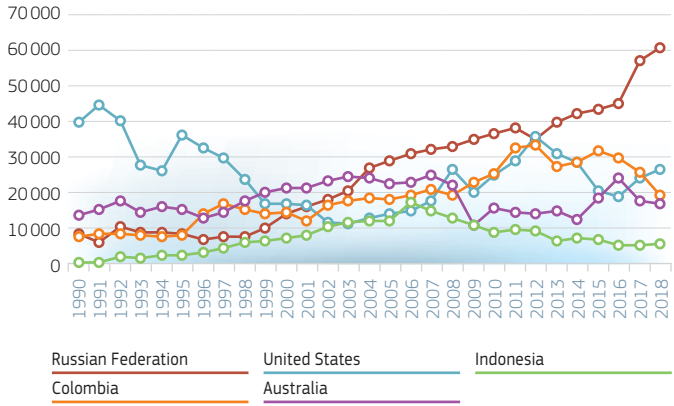
Source: Eurostat, May 2020
Methodology and Notes: **See Appendices**

2.2.5 Imports by Country of Origin

EU27_2020 – HARD COAL
TOP 15 ORDERED BY 2018 VOLUME

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)



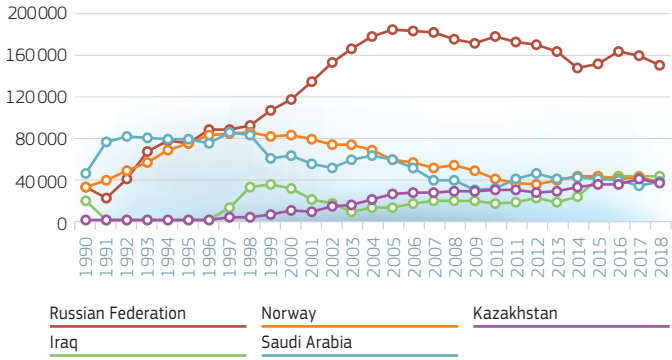
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

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	118282	186376	179253	152630	160748	152072
Iraq	31317	12290	16945	40078	43892	44020
Norway	83622	60053	40523	42990	41922	38455
Saudi Arabia	63036	59427	30759	40264	34026	37775
Kazakhstan	9993	26349	29654	35185	40125	36909
Nigeria	22530	18293	19746	39233	30083	35958
Libya	45540	50136	50929	12678	25641	31518
Azerbaijan	3712	7255	22840	27297	24201	23332
United Kingdom	45810	29133	28609	20291	21583	20133
Iran	35460	35547	29584	0	28332	19975
United States	0	0	28	1798	6505	13738
Mexico	9041	10205	6782	12980	11515	10829
Algeria	20565	20972	6990	17644	11785	10728
Angola	3861	7025	8367	19436	5302	7034
Brazil	133	2658	4103	2971	6182	5616
Other extra-EU	49178	37204	37216	45274	32028	26720
kton						
Extra-EU	542081	562923	512328	510750	523870	514811
Intra-EU	13908	16945	9485	9282	6357	5350
Total Intra-EU and Extra-EU	555989	579867	521813	520031	530227	520160
Mio barrels						
Extra-EU	3974	4127	3756	3744	3841	3774
Intra-EU	102	124	70	68	47	39
Total Intra-EU and Extra-EU	4076	4251	3826	3813	3887	3813

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



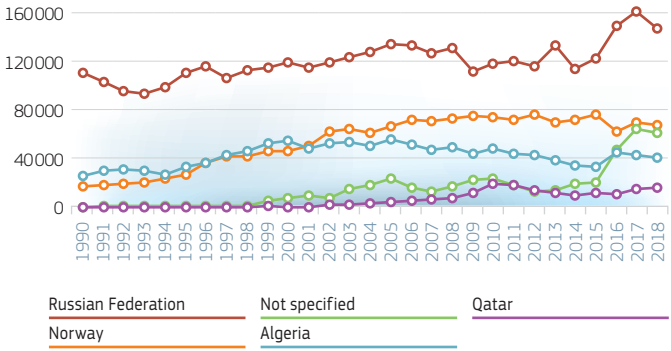
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

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	4582197	5207617	4555369	4778474	6280559	5704385
Norway	1880469	2579666	2876470	2949504	2689862	2555821
Not specified	334765	937384	957962	815898	2391357	2291642
Algeria	2203075	2240256	1944865	1352071	1718334	1660789
Qatar	12443	195713	798681	472595	615065	654356
Nigeria	172020	436319	562811	249411	404227	421507
UK	427099	263085	490364	480219	451261	335272
Libya	33442	209499	381660	269748	176820	170169
Other extra-EU	85416	502132	369247	128193	299235	314103
Extra-EU	9730926	12571671	12937429	11496114	15026720	14108044
Intra-EU	1453115	1865252	1951150	2738216	1347653	1224087
Total Intra-EU and Extra-EU	11184041	14436923	14888579	14234330	16374373	15332131
Mio m³						
Russia	120699	136283	119665	124320	163072	148947
Norway	46847	67641	74994	77124	71217	68685
Not specified	8126	23866	24111	20962	65745	62702
Algeria	55513	56588	49289	33776	43499	42020
Qatar	309	4859	20045	12063	15597	16619
Nigeria	4385	10586	13682	6173	9949	10408
UK	12044	7046	13481	13053	12735	9558
Libya	830	5445	9980	7080	4641	4466
Other extra-EU	2174	12633	9167	3235	7474	7959
Extra-EU	250927	324947	334414	297785	393929	371365
Intra-EU	41231	49492	51446	71747	36590	32953
Total Intra-EU and Extra-EU	292158	374439	385860	369532	430519	404317

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



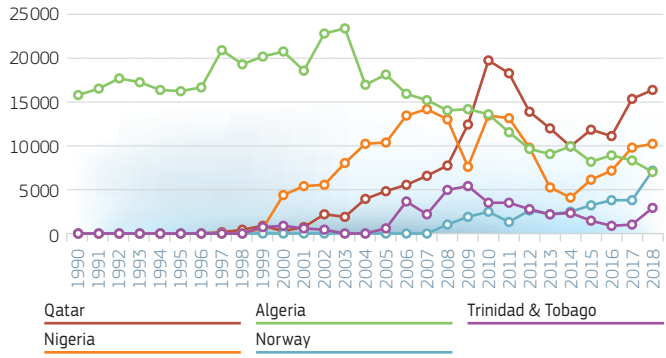
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

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	12443	195713	798681	472595	615065	654356
Nigeria	172020	436319	562811	249411	404227	421507
Algeria	871464	758810	568072	342350	345810	289100
Norway	0	0	104694	120466	143094	257576
Trinidad & Tobago	36334	26453	145341	58483	37304	114814
Russian Federation	0	0	115	1077	1233	76404
United States	0	0	0	0	66968	72805
Peru	0	0	3254	42295	145528	71816
Other extra-EU	64704	336010	253342	3599	40876	74594
Extra-EU	1156965	1753305	2436310	1290277	1800104	2032971
Intra-EU	0	0	3153	202	9272	14619
Total Intra-EU and Extra-EU	1156965	1753305	2439463	1290479	1809376	2047590
Mio m³						
Qatar	309	4859	20045	12063	15597	16619
Nigeria	4385	10586	13682	6173	9949	10408
Norway	0	0	2598	3324	3867	7221
Algeria	21093	18436	13730	8364	8477	7130
Trinidad & Tobago	902	671	3594	1492	975	2959
Russian Federation	0	0	3	29	32	1863
United States	0	0	0	0	1674	1840
Peru	0	0	82	1042	3593	1774
Other extra-EU	1605	8247	6266	90	1001	1840
Extra-EU	28294	42799	60000	32577	45166	51655
Intra-EU	0	0	78	5	230	344
Total Intra-EU and Extra-EU	28294	42799	60078	32582	45396	51999

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*

(%)

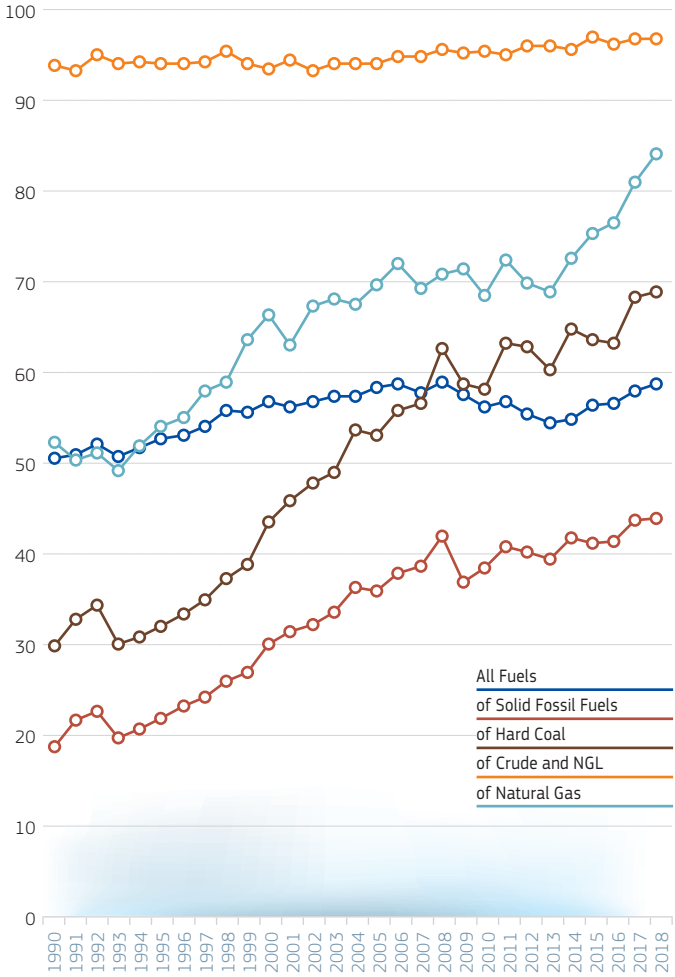
Imports from Extra-EU	2000	2005	2010	2015	2017	2018
EU27_2020	56.3	57.8	55.7	56.0	57.5	58.2
Index 2000	100.0	102.7	99.0	99.4	102.2	103.4
Intra and Extra-EU Imports						
BE	78.2	80.0	77.9	83.4	74.4	82.3
BG	46.4	47.3	40.1	36.4	39.4	36.4
CZ	22.7	27.8	25.3	31.9	37.2	36.7
DK	-35.9	-50.6	-16.0	13.0	12.3	23.7
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

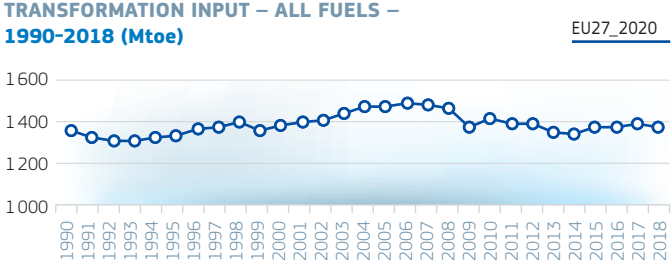
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

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)



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

2.4.2 Transformation Input by Fuel

Mtoe	2018 Transformation Input	Solid Fossil Fuels	Oil & Petroleum Products	Natural Gas	Nuclear	Renewables & Biofuels	Waste, Non-Renewable
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

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

2.4.3 Transformation Input by Sector

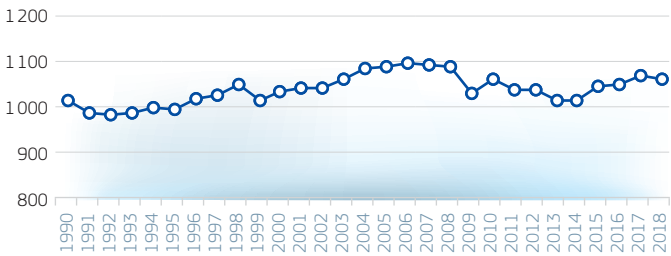
	2018					
Mtoe	Total, All Sectors	Electricity Producers	Heat Producers	CHP Producers	Refineries, Petroleum & Sub-Products	Other Transformation Input
EU27_2020	1 374.9	418.5	18.1	154.9	690.1	90.3
Share (%)	100.0 %	30.4 %	1.3 %	11.3 %	50.2 %	6.6 %
BE	60.09	12.04	0.00	3.01	41.24	3.67
BG	18.90	9.66	0.27	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

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

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)



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

2.4.5 Transformation Output by Fuel

Mtoe	2018 Transformation Output	Solid Fossil Fuels	Oil & Petroleum Products	Natural Gas	Renewables & Biofuels	Electricity	Heat
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

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

2.4.6 Transformation Output by Sector

Mtoe	2018 Total, All Sectors	Electricity Producers	Heat Producers	CHP Producers	Refineries, Petroleum & Sub-Products	Other Transformation Output
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**

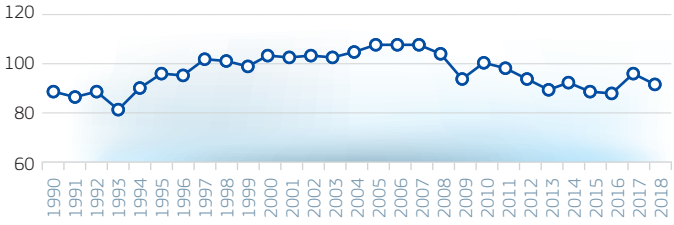
2.5.2 Final Non-Energy Consumption

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



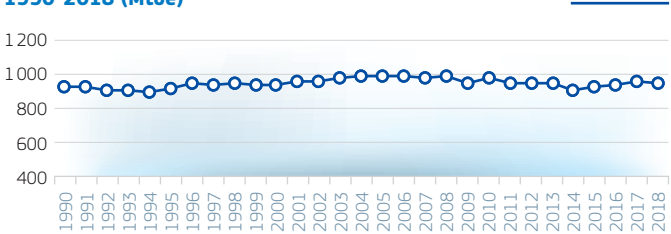
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

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	1 066.19	1 124.32	1 103.13	1 029.13	1 061.25	1 061.63

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



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

2.5.3 Final Energy Consumption

BY FUEL

Mtoe	2018							
	Oil & Petroleum Products	Natural Gas	Renewables & Biofuels	Solid Fossil Fuels	Waste, Non-Renewable	Electricity	Heat	Manufactured Gases, Peat & Products
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

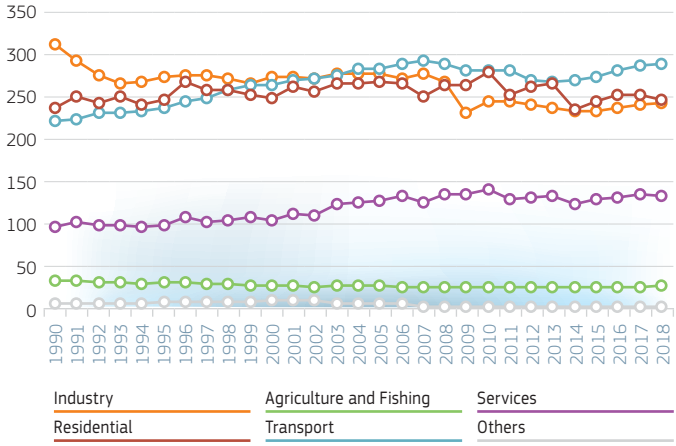
BY SECTOR

	2018					
Mtoe	Industry	Transport	Residential	Services	Agriculture & Fishing	Others
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

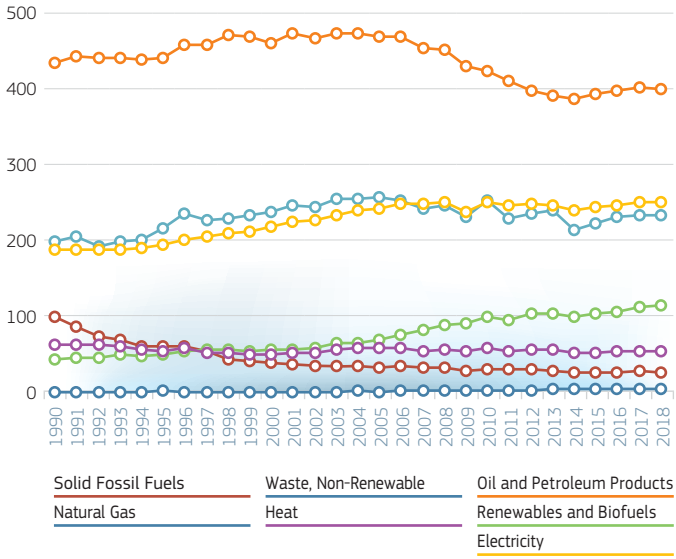
Source: Eurostat, May 2020
Methodology and Notes: **See Appendices**

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

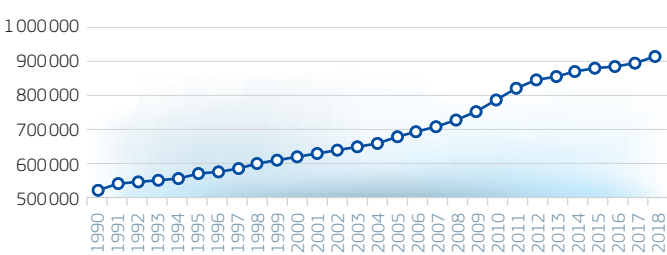
2.6 Electricity

2.6.1 Installed Electricity Capacity

TOTAL

MW	2000	2005	2010	2015	2017	2018
EU27_2020*	613221	675657	790329	889830	907426	929461
Index 2000	100%	110%	129%	145%	148%	152%
BE	15685	16096	18793	21167	22234	22790
BG	11085	12260	10031	10913	10858	11339
CZ	15323	17406	20073	21866	22267	22277
DK	12316	13036	13438	14002	14321	15073
DE	118884	128497	162924	203257	215326	229197
EE	2800	2559	2751	2857	2542	2819
IE	4709	6102	8143	9680	10608	10982
EL	10904	13306	15312	18942	19426	19581
ES	53922	76566	101740	106758	103863	103737
FR	114518	115730	124138	132219	133089	133457
HR	2067	3867	4103	4768	4970	5006
IT	75510	85498	106610	116964	114241	115221
CY	988	1125	1560	1756	1785	1794
LV	2092	2166	2557	2931	2941	2915
LT	5716	4556	3570	3587	3326	3354
LU	1217	1682	1712	2024	1712	1718
HU	8282	8586	8993	8634	8860	9249
MT	0	0	572	668	707	726
NL	21062	21800	26688	33866	33815	35024
AT	17802	19102	21345	24741	24919	25620
PL	30559	32257	33360	37327	42850	43046
PT	10908	13374	18932	19625	20933	21186
RO	16820	18951	19912	23830	23574	23553
SI	2614	2992	3193	3360	3618	3798
SK	7454	8257	7873	7782	7671	7625
FI	16260	16468	15554	16616	17174	17154
SE	33724	33419	36452	39691	39798	41223
UK	78393	82379	93685	96395	109286	108279
EU28	691614	758036	884015	986225	1016713	1037740

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



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

Source: Eurostat, May 2020

Methodology and Notes: **See Appendices**

2.6.1 Installed Electricity Capacity

BY FUEL

	2018						
MW	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

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

2.6.1 Installed Electricity Capacity*

RENEWABLES

	2018						
MW	Total Renewables	Hydro	Wind	Solar Thermal	Solar PV	Geothermal	Tide, Wave & Ocean
EU27_2020	413096	150826	157292	2306	101586	862	223
Share (%)	100.0%	36.5%	38.1%	0.6%	24.6%	0.2%	0.1%
BE	8665	1418	3261	0	3987	0	0
BG	5111	3379	699	0	1033	0	0
CZ	4656	2265	316	0	2075	0	0
DK	7128	9	6121	0	998	0	0
DE	115000	10940	58843	2	45179	36	0
EE	349	7	310	0	32	0	0
IE	4229	529	3676	0	24	0	0
EL	8938	3409	2877	0	2652	0	0
ES	50557	20080	23405	2304	4764	0	5
FR	50544	25793	14900	0	9617	16	218
HR	2864	2200	586	0	68	10	0
IT	53604	22499	10230	0	20108	767	0
CY	276	0	158	0	118	0	0
LV	1645	1565	78	0	2	0	0
LT	1492	877	533	0	82	0	0
LU	1584	1330	123	0	131	0	0
HU	1115	57	329	0	726	3	0
MT	131	0	0	0	131	0	0
NL	8952	37	4393	0	4522	0	0
AT	19088	14516	3133	0	1438	1	0
PL	8719	2391	5766	0	562	0	0
PT	13105	7236	5172	0	667	29	0
RO	11119	6701	3032	0	1386	0	0
SI	1595	1343	5	0	247	0	0
SK	3003	2528	4	0	471	0	0
FI	5468	3287	2041	0	140	0	0
SE	24159	16431	7300	0	428	0	0
UK	39687	4778	21770	0	13118	0	20
EU28	452783	155604	179063	2306	114704	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	2656.9	2917.7	2980.3	2902.3	2955.9	2941.5
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	3034.00	3316.02	3362.34	3240.40	3292.00	3272.21

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

2.6.2 Gross Electricity Generation

BY FUEL

	2018						
TWh	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	2941.5	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	3272.21	627.7	55.91	655.45	827.01	1079.43	26.66

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

2.6.2 Gross Electricity Generation

RENEWABLES

	2018							
TWh	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	1079.43	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

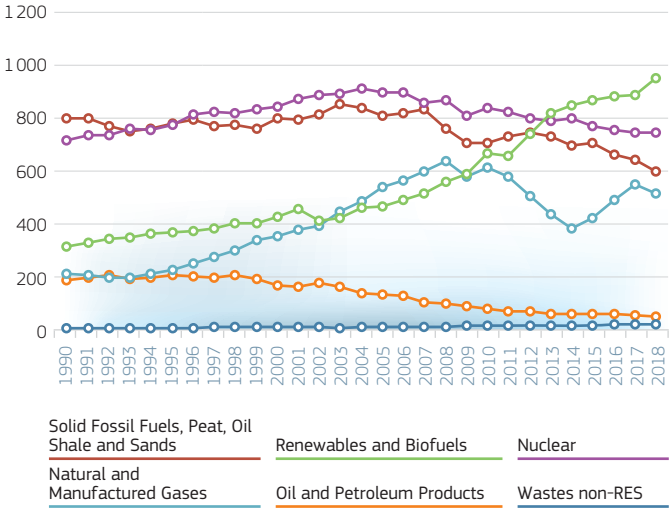
EU27_2020 – BY FUEL

	2018					
Share of Total (%)	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

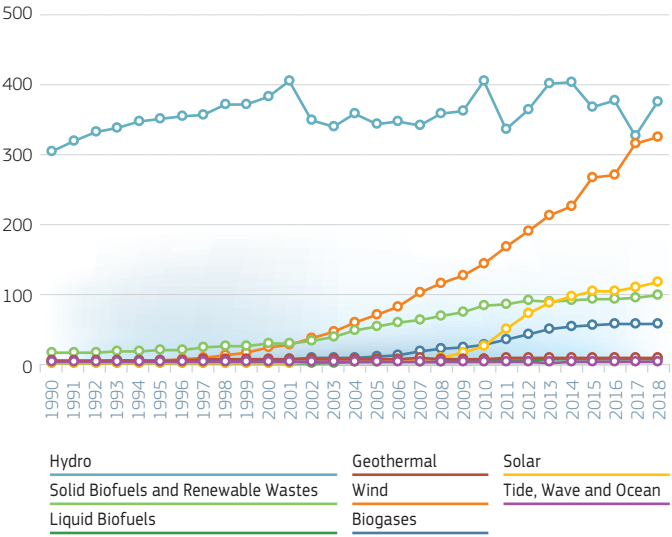
Source: Eurostat, May 2020
Methodology and Notes: **See Appendices**

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			

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

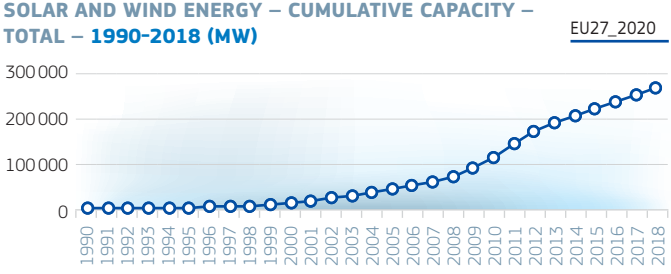
2.7 Solar and Wind Energy

2.7.1 Solar and Wind Energy – Cumulative Capacity

TOTAL

MW	2000	2005	2010	2015	2017	2018
EU27_2020	12472	41041	109606	214847	245149	261184
Index 2000	100%	329%	879%	1723%	1966%	2094%
BE	14	169	1919	5308	6413	7247
BG	0	8	513	1728	1734	1732
CZ	1	23	1940	2356	2378	2391
DK	2391	3131	3809	5859	6396	7119
DE	6209	20316	44961	83804	97873	104024
EE	0	31	108	300	327	342
IE	117	493	1391	2454	3334	3700
EL	226	492	1500	4695	5230	5529
ES	2216	9970	25298	29951	30152	30473
FR	45	703	6956	17436	22110	24517
HR	0	6	79	466	636	654
IT	382	1669	9386	28038	29419	30338
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	1055
MT	0	0	1	75	112	131
NL	460	1275	2327	4906	7105	8915
AT	55	846	1105	3426	4156	4570
PL	4	121	1108	4994	6046	6328
PT	84	1066	3930	5384	5703	5840
RO	0	1	389	4456	4404	4418
SI	0	0	12	244	252	252
SK	0	5	22	536	532	475
FI	40	86	204	1022	2126	2181
SE	212	526	2028	5923	6855	7728
UK	414	1576	5516	23907	32367	34889
EU28	12886	42617	115122	238754	277516	296073

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



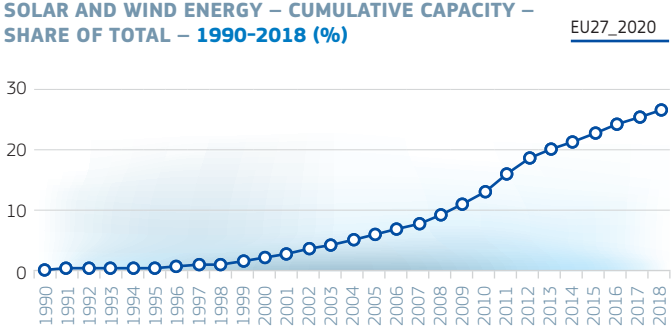
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

2.7.1 Solar and Wind Energy – Cumulative Capacity

SHARE OF TOTAL INSTALLED ELECTRICITY CAPACITY

%	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 (%)



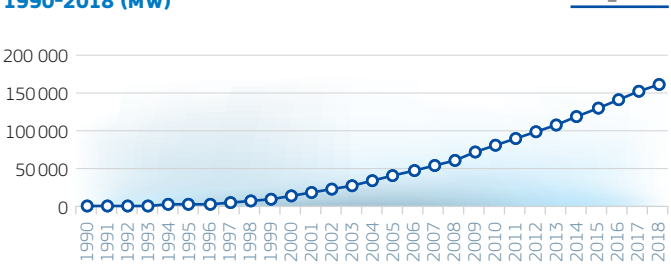
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

2.7.2 Wind Cumulative Installed Capacity

TOTAL

MW	2000	2005	2010	2015	2017	2018
EU27_2020	12297	38773	78989	127171	148930	157292
Index 2000	100%	315%	642%	1034%	1211%	1279%
BE	14	167	912	2176	2797	3261
BG	0	8	488	699	698	699
CZ	1	22	213	281	308	316
DK	2390	3128	3802	5077	5490	6121
DE	6095	18260	26955	44580	55580	58843
EE	0	31	108	300	312	310
IE	117	493	1390	2451	3318	3676
EL	226	491	1298	2091	2624	2877
ES	2206	9918	20693	22943	23124	23405
FR	38	690	5912	10298	13499	14900
HR	0	6	79	418	576	586
IT	363	1635	5794	9137	9737	10230
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	1224	2237	3391	4202	4393
AT	50	825	1016	2489	2887	3133
PL	4	121	1108	4886	5758	5766
PT	83	1064	3796	4937	5124	5172
RO	0	1	389	3130	3030	3032
SI	0	0	0	5	5	5
SK	0	5	3	3	4	4
FI	38	82	197	1005	2044	2041
SE	209	522	2017	5819	6611	7300
UK	412	1565	5421	14306	19585	21770
EU28	12709	40338	84410	141476	168514	179063

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



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

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

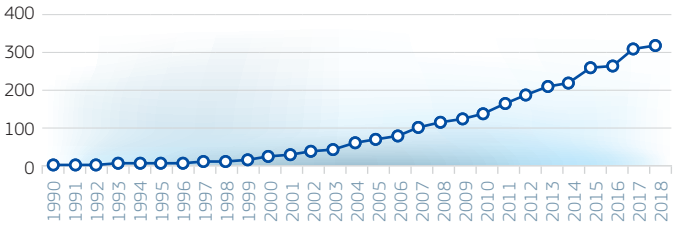
2.7.3 Wind Gross Electricity Production

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 %	1468 %	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

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

2.7.5 Wind Capacity Factor

ANNUAL AVERAGE

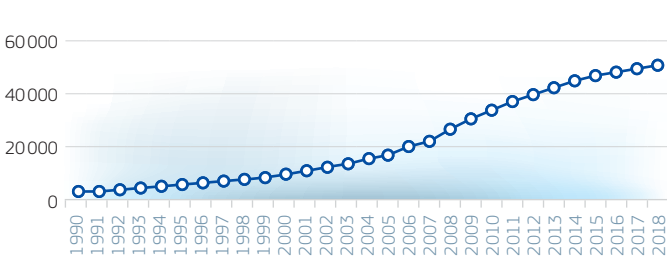
%	2000	2005	2010	2015	2017	2018
EU27_2020	21.6	22.0	22.1	25.9	26.2	25.5
BE	14.3	17.0	17.7	32.0	29.1	28.6
BG			17.5	26.0	26.9	23.6
CZ		12.1	19.7	25.5	24.0	24.1
DK	22.2	26.4	25.7	34.8	33.7	28.4
DE	19.2	19.0	17.9	22.6	23.8	23.4
EE		21.8	32.1	29.8	29.0	25.6
IE	26.2	28.2	25.3	33.5	28.0	29.4
EL	24.9	32.2	26.1	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

1000 m²	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 (1000 m²)



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

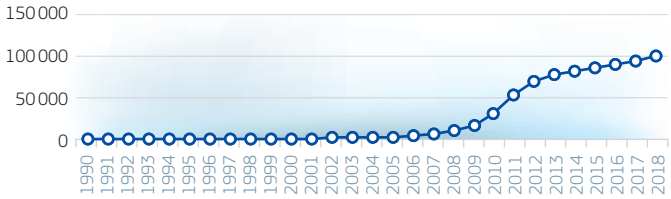
2.7.7 Solar Installed Capacity

TOTAL

MW	2000	2005	2010	2015	2017	2018
EU27_2020	175	2268	30617	87677	96220	103892
BE	0	2	1007	3132	3616	3987
BG	0	0	25	1029	1036	1033
CZ	0	1	1727	2075	2070	2075
DK	1	3	7	782	906	998
DE	114	2056	18006	39224	42293	45181
EE	0	0	0	0	15	32
IE	0	0	1	2	16	24
EL	0	1	202	2604	2606	2652
ES	10	52	4605	7008	7027	7068
FR	7	13	1044	7138	8610	9617
HR	0	0	0	48	60	68
IT	19	34	3592	18901	19682	20108
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	1515	2903	4522
AT	5	21	89	937	1269	1438
PL	0	0	0	108	287	562
PT	1	2	134	447	579	667
RO	0	0	0	1326	1374	1386
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	9601	12782	13118
EU28	177	2279	30712	97278	109001	117010

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

EU27_2020



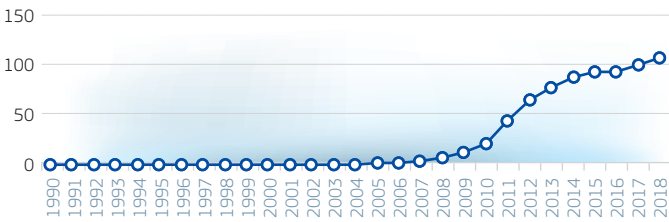
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

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)



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

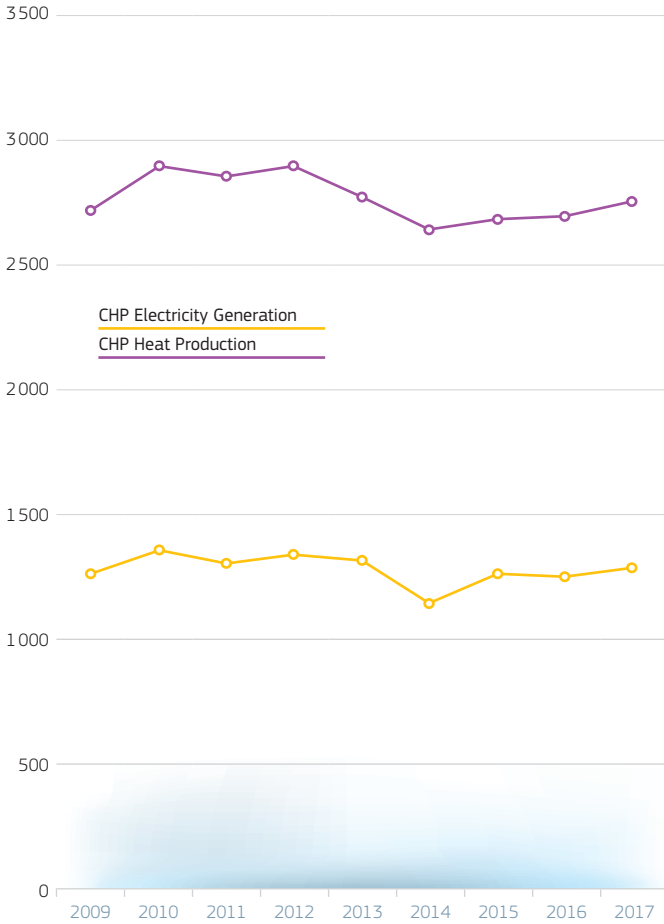
	CHP Heat Production			CHP Heat Capacity		
	PJ			GW		
	2016	2017	2018	2016	2017	2018
EU27_2020	2682.7	2741.4		265.9	278.3	
BE	104.4	108.7	89.5	5.0	5.1	4.9
BG	39.3	40.1	40.1	4.7	4.6	4.3
CZ	101.6	103.5	102.1	20.8	22.1	21.7
DK	94.9	94.4	95.2	8.8	8.8	9.0
DE	698.0	703.2	676.1	94.6	101.3	98.0
EE	3.3	13.6	3.5	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	2812.5	2881.2		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	2044.7	2487.6	2581.4	2258.3	2341.3	2287.9
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	2146.8	2544.8	2638.4	2321.4	2407.9	2354.2

* 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

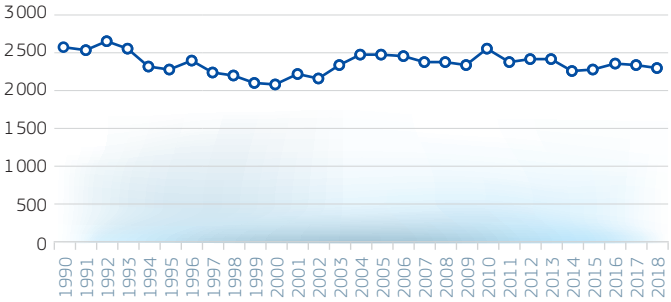
	2018						
PJ	Gross Heat Generation	Solid Fossil Fuels, Peat, Oil Shale & Sands	Oil & Petroleum Products	Natural Gas & Manufactured Gases	Nuclear	Renewables & Biofuels	Wastes non-RES & Others
EU27_2020	2287.9	566.5	83.5	862.6	4.1	642.3	128.8
Share (%)	100.0%	24.8%	3.6%	37.7%	0.2%	28.1%	5.6%
BE	22.3	0.0	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	2354.2	566.6	84.7	922.8	4.1	646.7	129.2

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

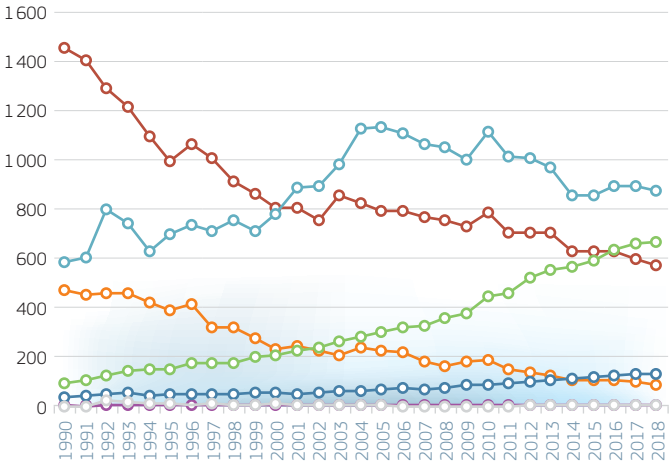
2.9.1 Gross Heat Generation

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

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

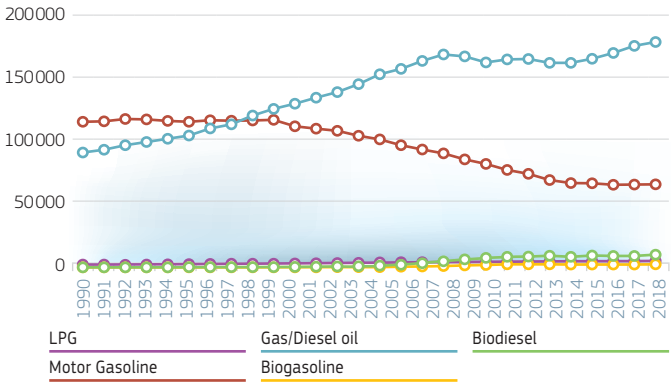
2.10 Transport

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

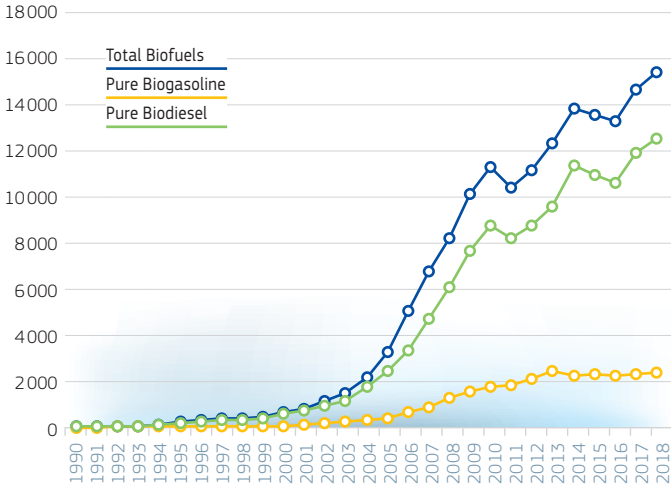
EU27_2020 – BY FUEL

	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	1108	160	918	0.4%	0.1%	0.6%
2003	1460	264	1145	0.5%	0.2%	0.7%
2004	2139	312	1716	0.7%	0.3%	1.0%
2005	3230	383	2447	1.1%	0.6%	1.5%
2006	5037	635	3300	1.9%	0.9%	2.1%
2007	6733	865	4643	2.6%	1.2%	3.0%
2008	8140	1282	6013	3.2%	2.0%	3.8%
2009	10052	1538	7579	3.9%	2.5%	4.7%
2010	11217	1728	8677	4.4%	3.2%	5.2%
2011	10307	1823	8156	4.6%	3.4%	5.5%
2012	11079	2103	8675	5.1%	3.5%	6.1%
2013	12223	2409	9479	4.6%	3.4%	5.4%
2014	13772	2187	11286	4.9%	3.4%	5.8%
2015	13485	2274	10878	4.8%	3.5%	5.7%
2016	13182	2240	10509	4.7%	3.4%	5.4%
2017	14550	2263	11845	5.0%	3.6%	5.8%
2018	15332	2365	12422	5.5%	3.8%	6.5%

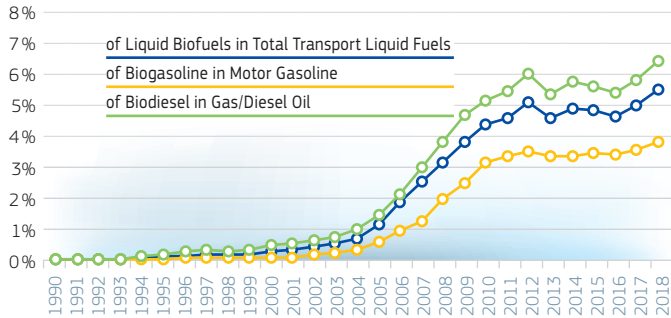
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

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**

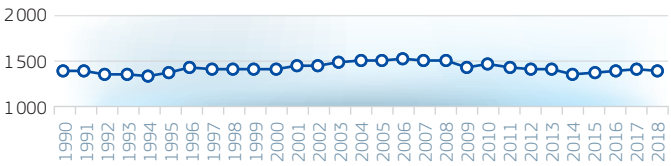
2.11 Energy Efficiency

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)



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

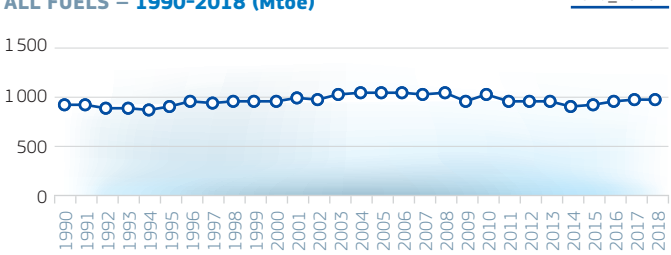
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

2.11.2 Final Energy Consumption 2020-2030*

ALL FUELS

Mtoe	2000	2005	2010	2015	2017	2018
EU27_2020	980.1	1040.8	1024.0	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	1133.4	1193.8	1167.1	1090.3	1122.6	1123.9

FINAL ENERGY CONSUMPTION 2020-2030 – ALL FUELS – 1990-2018 (Mtoe)



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

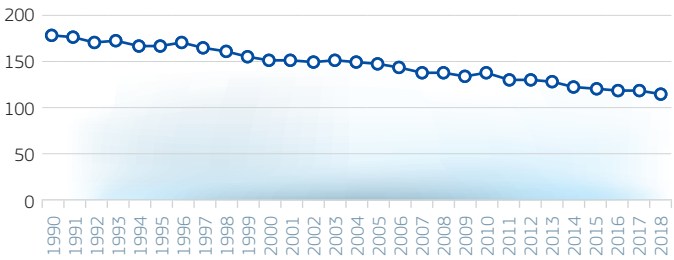
Source: Eurostat, May 2020
Methodology and Notes: **See Appendices**

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)



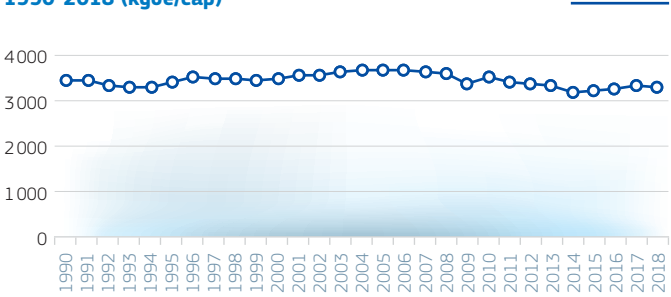
Sources: Eurostat, DG Economic and Financial Affairs, May 2020
Methodology and Notes: See Appendices

2.11.4 Energy Consumption per Capita

GROSS INLAND CONSUMPTION – ALL FUELS

kgoe/cap	2000	2005	2010	2015	2017	2018
EU27_2020	3497	3691	3539	3266	3348	3316
Index 2000	100%	106%	101%	93%	96%	95%
BE	5805	5664	5653	4809	5020	4828
BG	2275	2612	2414	2594	2666	2693
CZ	4017	4465	4358	4020	4109	4105
DK	3659	3664	3689	3064	3165	3163
DE	4168	4200	4135	3918	3902	3798
EE	3378	3881	4253	4134	4374	4774
IE	3804	3762	3311	3029	3067	3069
EL	2589	2831	2549	2218	2265	2218
ES	3065	3337	2796	2644	2811	2798
FR	4229	4416	4171	3916	3827	3806
HR	1877	2278	2201	2012	2138	2114
IT	3066	3273	2988	2562	2633	2596
CY	3511	3476	3370	2715	3011	3047
LV	1623	2040	2183	2205	2334	2478
LT	2093	2677	2254	2459	2702	2775
LU	8433	10411	9254	7425	7332	7490
HU	2468	2823	2655	2557	2725	2732
MT	2080	2324	2266	1724	1797	1775
NL	4934	5133	5198	4508	4625	4534
AT	3652	4192	4171	3923	3967	3852
PL	2332	2425	2672	2520	2769	2812
PT	2476	2614	2305	2273	2391	2335
RO	1637	1809	1725	1604	1707	1720
SI	3244	3667	3525	3124	3323	3303
SK	3284	3480	3286	3000	3173	3132
FI	6336	6654	6886	5961	6220	6329
SE	5384	5735	5429	4831	5034	5016
UK	3968	3902	3408	2944	2823	2794
EU28	3553	3717	3523	3225	3280	3248

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



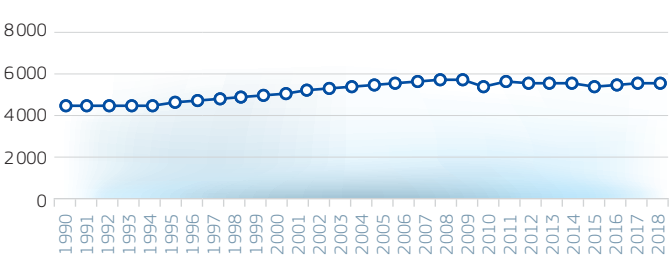
Source: Eurostat, May 2020
Methodology and Notes: **See Appendices**

2.11.5 Final Electricity Consumption per Capita

ALL FUELS

kWh/cap	2000	2005	2010	2015	2017	2018
EU27_2020	5130	5603	5693	5528	5632	5631
Index 2000	100%	109%	111%	108%	110%	110%
BE	7573	7678	7686	7268	7248	7260
BG	2961	3345	3652	3933	4211	4240
CZ	4804	5256	5183	5169	5424	5467
DK	6089	6184	5792	5444	5443	5377
DE	5884	6332	6504	6342	6289	6195
EE	3579	4445	5181	5211	5497	5679
IE	5371	5923	5588	5360	5403	5619
EL	4005	4640	4777	4677	5012	4606
ES	4657	5595	5266	4995	5139	5111
FR	6357	6735	6868	6594	6626	6579
HR	2631	3344	3686	3631	3846	3940
IT	4795	5199	5057	4729	4819	4846
CY	4339	5402	5960	4830	5313	5397
LV	1880	2547	2931	3253	3325	3444
LT	1764	2377	2652	3198	3532	3702
LU	13319	13340	13132	11056	10826	10671
HU	2880	3203	3416	3682	3929	4032
MT	4031	4614	4406	4808	5039	5024
NL	5993	6403	6501	6144	6236	6284
AT	6441	7011	7164	7127	7169	7149
PL	2563	2751	3122	3363	3576	3699
PT	3744	4414	4718	4416	4524	4660
RO	1511	1817	2036	2166	2275	2333
SI	5293	6379	5835	6199	6549	6637
SK	4077	4253	4477	4495	4747	4765
FI	14636	15421	15604	14346	14726	15013
SE	14526	14504	14048	12810	12732	12605
UK	5604	5794	5263	4681	4551	4523
EU28	5187	5626	5639	5420	5492	5487

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



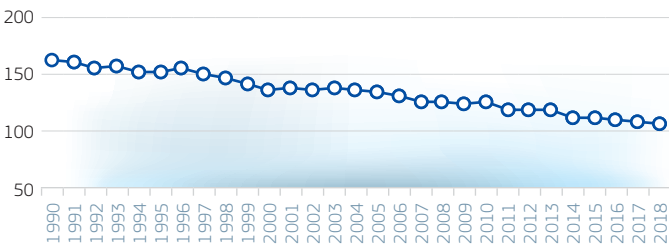
Source: Eurostat, May 2020
Methodology and Notes: See Appendices

2.11.6 Primary Energy Intensity 2020-2030*

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)



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

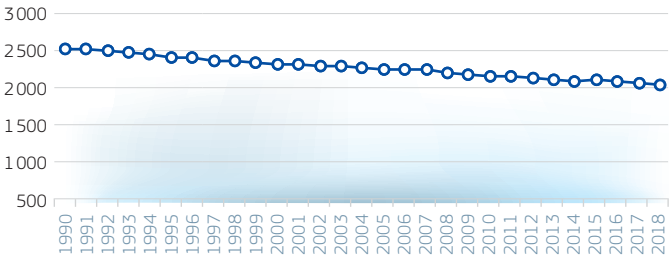
Sources: Eurostat, DG Economic and Financial Affairs, May 2020
Methodology and Notes: **See Appendices**

2.11.7 Greenhouse Gas (GHG) Intensity of Energy

ALL FUELS

kg CO_2/toe	2000	2005	2010	2015	2017	2018
EU27_2020	2306	2227	2118	2029	2000	1965
Index 2000	100%	97%	92%	88%	87%	85%
BE	1786	1788	1624	1494	1494	1555
BG	2188	2283	2580	2330	2373	2170
CZ	2959	2648	2467	2387	2278	2224
DK	2744	2559	2403	2013	1856	1844
DE	2541	2402	2370	2405	2337	2291
EE	3137	3143	3300	2898	3217	2793
IE	2957	2955	2684	2548	2511	2468
EL	3470	3455	3286	2831	2880	2825
ES	2339	2386	2045	1963	1978	1941
FR	1539	1451	1362	1258	1276	1225
HR	2155	2198	2085	1983	1958	1895
IT	2620	2562	2410	2291	2185	2193
CY	2632	2802	2717	2630	2562	2461
LV	1910	1772	1837	1654	1592	1606
LT	1485	1465	1855	1579	1501	1527
LU	2212	2405	2311	2057	2031	2021
HU	2166	1961	1827	1729	1717	1704
MT	3162	2849	2763	1951	1887	1822
NL	2134	2066	2076	2089	2027	1994
AT	1892	1949	1707	1591	1610	1609
PL	3612	3584	3367	3284	3261	3204
PT	2362	2332	2005	2007	2080	2017
RO	2719	2649	2466	2402	2344	2292
SI	2370	2260	2260	2131	2036	2073
SK	2056	1979	1859	1745	1711	1719
FI	1640	1542	1635	1274	1198	1208
SE	1030	930	932	757	731	717
UK	2412	2381	2368	2080	2040	2010
EU28	2321	2246	2148	2035	2004	1970

GHG INTENSITY OF ENERGY – 1990-2018 (kg CO_2/toe) EU27_2020



Sources: EEA - June 2020, Eurostat 2020
Methodology and Notes: See Appendices

2.12 Renewable Energy (RES) Indicators

2.12.1 Renewable Energy (RES) Shares*

OVERALL AND HEATING & COOLING

	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

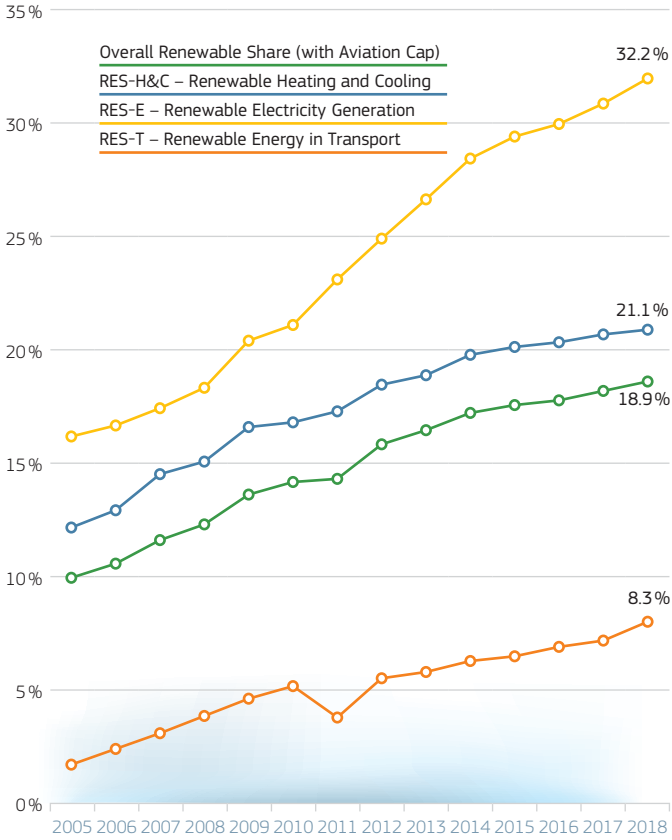
	RES-E Renewable Electricity Generation				RES-T Renewable Energy in Transport**			
%	2005	2010	2017	2018	2005	2010	2017	2018
EU27_2020	16.4	21.3	31.1	32.2	2.0	5.5	7.5	8.3
BE	2.4	7.1	17.3	18.9	0.6	4.7	6.6	6.6
BG	8.7	12.4	19.0	22.1	0.8	1.4	7.2	8.1
CZ	3.8	7.5	13.7	13.7	1.0	5.1	6.6	6.5
DK	24.6	32.7	60.0	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*

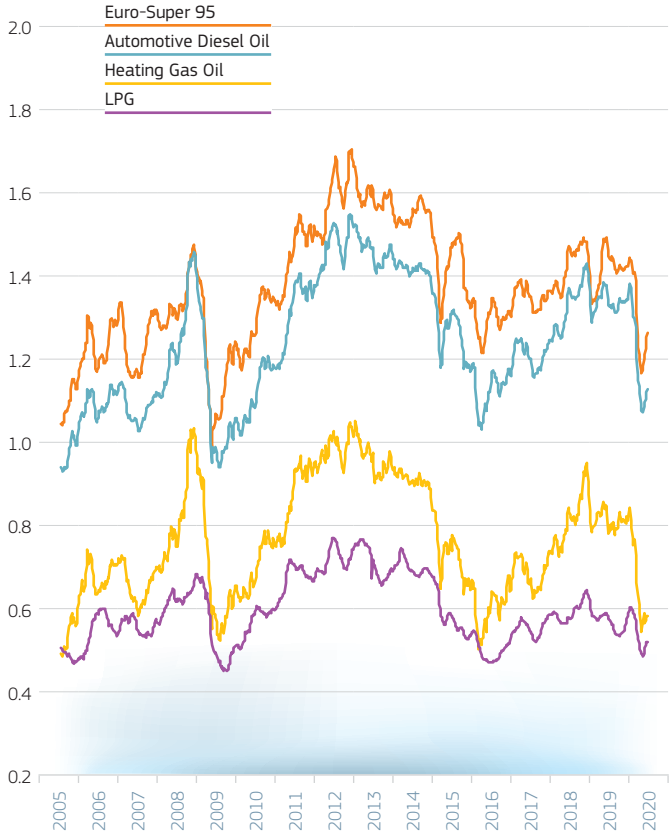
Current Prices (€/litre)	2009	2010	2015	2018	2019	2020
EU27_2020	1.15	1.31	1.35	1.41	1.40	1.28
BE	1.24	1.40	1.37	1.40	1.39	1.26
BG	0.88	1.02	1.10	1.10	1.08	0.97
CZ	1.03	1.25	1.15	1.25	1.24	1.09
DK	1.28	1.44	1.50	1.59	1.61	1.44
DE	1.26	1.39	1.40	1.44	1.42	1.30
EE	0.92	1.11	1.11	1.33	1.34	1.26
IE	1.11	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 accesion 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
10 000 GJ < CONSUMPTION < 100 000 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

Summary

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	*245*	206	200
B06:	Extraction of Crude Petroleum and Natural Gas	323	281	*246*
B07.21:	Mining of Uranium and Thorium Ores	*4*	4	4
B08.92:	Extraction of Peat	*981*	939	*940*
B09.1:	Support Activities for Petroleum and Natural Gas Extraction	*851*	1151	1025
C19:	Manufacture of Coke and Refined Petroleum Products	918	954	899
D35:	Electricity, Gas, Steam and Air Conditioning Supply	96893	98557	96922
D35.1:	Electricity Power Generation, Transmission and Distribution	90000	91600	90000
	35.11: Production of Electricity	83307	85139	
	35.12: Transmission of Electricity			
	35.13: Distribution of Electricity	2149	2139	
	35.14: Trade of Electricity	3940	4059	
D35.2:	Manufacture of Gas; Distribution of Gaseous Fuels through Mains	1900		1900
	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	5359	5100	5020
	35.30: Steam & Air Conditioning Supply	5359	5100	5020
Broad Sector – no. of Enterprises Reported		100215	102092	100403

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	*1010*	1000	955		*810*	*1102*	1154	1236

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

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

3.2.2 Turnover in the Energy Sector

ENTERPRISES SURVEY – EU27_2020

Mio EUR	2015	2017	2018
B05: Mining of Coal and Lignite	*10602*	10743	10389
B06: Extraction of Crude Petroleum and Natural Gas	89259	35720	38305
B07.21: Mining of Uranium and Thorium Ores			
B08.92: Extraction of Peat	1597	*1917*	*2050*
B09.1: Support Activities for Petroleum and Natural Gas Extraction	10420	5531	6147
C19: Manufacture of Coke and Refined Petroleum Products	382800	395809	420031
D35: Electricity, Gas, Steam and Air Conditioning Supply	1310000	1340000	1370000
D35.1: Electricity Power Generation, Transmission and Distribution	1088349	1091284	1126233
35.11: Production of Electricity	288134	358193	
35.12: Transmission of Electricity		78414	
35.13: Distribution of Electricity		157504	
35.14: Trade of Electricity	563003	497174	
D35.2: Manufacture of Gas; Distribution of Gaseous Fuels through Mains			211421
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		33776	35000
35.30: Steam and Air Conditioning Supply		33776	
Broad Sector – Turnover Reported	1804679	1789720	1846921

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	*477437*	382800	395809	420031	*1116322*	1310000	1340000	1370000
BE	48074		42339		43772	36969	32197	39787
BG					7279	8357	8232	8323
CZ	4558				37371	40927	41998	49513
DK					20378	21487	25502	26973
DE	120832	107408	95950	99193	426882	537677	536535	615366
EE	178	254	194	255	1834	1765	2021	2262
IE					7186	8013	8190	8556
EL	15340	14818	13891	16563	5943	19684	21321	20593
ES	34773	36051	38156	56402	59706	93787	88248	92205
FR	61248	39383		45381	109649	110123	126595	127351
HR					3684	4359	5031	5158
IT	46038	35596	37662	39394	160950	195056	218353	214976
CY					782	630	669	751
LV	1	8			2311	2082	2071	2081
LT					3279	2376	2280	2751
LU	0	0	0	0	1951	4647	3893	4958
HU	8298	6529	6855	9373	22059	16727	15608	15579
MT								
NL	37272	34362	30284	37104	41197	31409	27086	30776
AT		7226	7461	9927	29297	35906	40335	45386
PL	27575	27045	30326		42567	47826	46699	46376
PT	6767	7131	7169	7765	17842	21119	21318	22880
RO	3272	3374	3673	4672	12078	13175	12427	12971
SI					4034	6076	7305	6940
SK					11351	11284	12683	12978
FI					14455	12422	12428	14413
SE		11225			28486	26220	25360	26878
UK	44764	40198	74561	84111	109515	148344	131861	141885
EU28	*522200*	422998	470371	504141	*1225837*	1460000	1480000	*1511885*

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	*10 714*	10 094	*10 310*
B09.1: Support Activities for Petroleum and Natural Gas Extraction	*36 816*	*22 051*	21 860
C19: Manufacture of Coke and Refined Petroleum Products	*113 733*	*123 030*	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		153291	127461	135698		59898	37517	35440
BE		0	0	0	0	0	0	0
BG	13269	11995	10300	9725				34
CZ	24265	18716	15138	14214				
DK	0	0	0		566	1051	2542	3387
DE	33672	17468	13011		3754	3927	3526	4925
EE	0	0	0	0		3043	2819	2637
IE								
EL		316		259				102
ES	6105	1684		662	242	368	995	128
FR	28	2	0		814			
HR		0	0	0		7852	63	59
IT		0	0	0	12116	12681	1864	1864
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	3173	3913	3252	2972
AT	0	0	0	0				
PL	124925	96076	82084	89579				
PT	0	0	0	0	0	0	0	0
RO	18011	1843	953	589	30546	23486	19752	18639
SI								
SK					0			
FI	0	0	0		0	0	0	
SE				0		0	0	0
UK	6023	2844	1068	1400	15300	17127	13540	12938
EU28		156135	128529	137098		77025	51057	48378

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		*10714*	10094	*10310*		*36816*	*22051*	21860
BE	0	0	0					
BG	52	55			14	25	17	18
CZ		71	61		421			
DK						1587	1324	2444
DE	2003	1762	1599	1775				1661
EE	1153	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			2273	1842	1893
IT	12	21	25			2188	1691	1691
CY	0	0	0		0			
LV	1977	2158	2061		0	2	1	1
LT	1126	1149			0	0	0	0
LU	0	0	0		0	0	0	0
HU	116	97	89	87	1089	1062	848	349
MT	0	0	0					
NL	22	104	223					
AT					27			
PL					4082	4638	2781	3678
PT								14
RO	26	25	23		6267	6771	4776	5129
SI	0	0	0	0				
SK		114						
FI	1845	1977	1852		0	0	0	
SE	306	165	143			75		74
UK	355		466		22879			
EU28		11114	10560	*10710*		56816	42051	

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		*113733*	*123030*	134854		1090709	1160000	1199461
BE	4091		4558		19193	20293	18942	31814
BG		2078	2449	2466	34191	31751	31779	31771
CZ	2747				31480	34536	37296	39332
DK					11235	13815	11474	11382
DE	19452	22302	21715	24479	221264	224669	234461	375474
EE	1406	1679	1297	1293	5681	4949	5121	4950
IE					9117	8846	9588	9592
EL	4333	3588	3718	4028	22834	25764	29842	29583
ES	8954	8453	8755	13156	48687	39764	41844	46558
FR	15095				170194	190364	239570	
HR		262	4616	4505	16619	14893	15218	14292
IT	16493	11065	11471	11486	86414	89109	96157	96962
CY					2470	2130	2081	2111
LV	12	65	58	54	10907	11344	10981	10343
LT					15876	13522	12185	12928
LU	0	0	0	0	1196	1529	1679	1710
HU	6329	5691	5711	10589	25715	24601	24991	28213
MT						10		67
NL	5908	5299	5577	5627	22882	27969	27216	27557
AT		1180	1268	2004	28685	29168	28847	32409
PL	13623	13495	13890		162409	128183	125733	134640
PT	1971	1830	1778	1941	9496	9589	12709	13535
RO	3960	2560	2094	2179	81111	72333	66385	65725
SI		26		9	8207	8958	8797	8635
SK					20034	17873	17364	17677
FI					13463	13368	13797	13433
SE		2879			31115	31379	32790	33885
UK				11321	123965	141099	147788	153087
EU28		124733	134030	146174		1231808	1300000	1352548

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 2020

Methodology and Notes: **See Appendices**

3.3.3 GDP at 2015 Prices

Mrd EUR*	2005	2010	2015	2016	2018	2019
EU27_2020	11053.3	11613.7	12213.0	12465.6	13078.8	13270.8
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	2621.3	2779.8	3030.1	3097.6	3222.5	3240.7
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	1028.7	1079.0	1077.6	1110.3	1169.2	1192.0
FR	2005.2	2088.8	2198.4	2222.5	2312.0	2342.4
HR	43.8	45.0	44.6	46.2	48.9	50.3
IT	1737.6	1712.8	1655.4	1676.8	1718.3	1723.5
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	2331.2	2389.3	2641.0	2691.6	2779.3	2818.3
EU28	13384.5	14003.0	14854.0	15157.2	15858.2	16089.1

* 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	434416.3	440660.4	443666.8	444802.8	446098.4	446824.6
BE	10445.9	10839.9	11237.3	11311.1	11398.6	11455.5
BG	7688.6	7421.8	7202.2	7153.8	7050.0	7000.0
CZ	10198.9	10462.1	10538.3	10553.8	10610.1	10649.8
DK	5411.4	5534.7	5659.7	5707.3	5781.2	5806.1
DE	82500.8	81802.3	81197.5	82175.7	82792.4	83019.2
EE	1358.9	1333.3	1314.9	1315.9	1319.1	1324.8
IE	4111.7	4549.4	4677.6	4726.3	4830.4	4904.2
EL	10969.9	11119.3	10858.0	10783.7	10741.2	10724.6
ES	43296.3	46486.6	46449.6	46440.1	46658.4	46937.1
FR	62772.9	64658.9	66458.2	66638.4	66918.9	67012.9
HR	4310.9	4302.8	4225.3	4190.7	4105.5	4076.2
IT	57874.8	59190.1	60795.6	60665.6	60484.0	60359.5
CY	733.1	819.1	847.0	848.3	864.2	875.9
LV	2249.7	2120.5	1986.1	1969.0	1934.4	1920.0
LT	3355.2	3142.0	2921.3	2888.6	2808.9	2794.2
LU	461.2	502.1	563.0	576.2	602.0	613.9
HU	10097.5	10014.3	9855.6	9830.5	9778.4	9772.8
MT	402.7	414.0	439.7	450.4	475.7	493.6
NL	16305.5	16575.0	16900.7	16979.1	17181.1	17282.2
AT	8201.4	8351.6	8584.9	8700.5	8822.3	8858.8
PL	38173.8	38022.9	38005.6	37967.2	37976.7	37972.8
PT	10494.7	10573.5	10374.8	10341.3	10291.0	10276.6
RO	21382.4	20294.7	19870.6	19760.6	19530.6	19414.5
SI	1997.6	2047.0	2062.9	2064.2	2066.9	2080.9
SK	5372.7	5390.4	5421.3	5426.3	5443.1	5450.4
FI	5236.6	5351.4	5471.8	5487.3	5513.1	5517.9
SE	9011.4	9340.7	9747.4	9851.0	10120.2	10230.2
UK	60182.1	62510.2	64853.4	65379.0	66273.6	66647.1
EU28	494598.3	503170.6	508520.2	510181.9	512372.0	513471.7

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

3.5 Employment

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

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*	*10.7*	10.1	*10.3*	*10.3*
B091: Support Activities for Petroleum and Natural Gas Extraction*	*36.8*	*22.1*	21.9	*21.9*
C19: Manufacture of Coke and refined Petroleum Products	*160.7*	*157.7*	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	*1 909.4*

* 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

Summary

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 CO_2 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								
		of which:							
	Energy	Energy Industries	Manufacturing Industries & Construction	Transport	Commercial/ Institutional	Residential	Agriculture/ Forestry/ Fisheries	Other Sectors	Other Combustion & Fugitive Emissions
EU27_2020	2907.1	1015.2	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	3279.2	1110.1	500.7	950.1	158.6	389.2	81.6	6.2	82.6

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

4.1.1 Greenhouse Gas (GHG) Emissions

EU27_2020 AND MEMBER STATES – NOT ENERGY RELATED

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

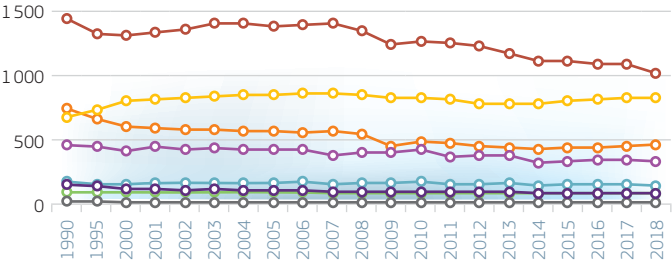
Source: European Environment Agency, June 2020
Methodology and Notes: **See Appendices**

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	4912	3734.4	1439.0	736.5	672.7	175.0	449.2	91.7	18.4	151.9
1995	4627	3516.3	1319.9	654.7	724.3	148.6	439.5	90.2	10.1	128.9
2000	4543	3455.3	1306.1	596.7	798.6	147.8	405.9	85.6	6.9	107.7
2001	4589	3520.0	1332.2	580.7	812.4	160.7	437.7	85.5	6.1	104.8
2002	4573	3518.7	1355.5	572.3	821.2	155.2	421.0	83.4	6.0	104.1
2003	4658	3594.6	1402.3	577.5	830.5	155.6	433.6	84.0	6.5	104.6
2004	4669	3588.3	1406.2	560.2	848.9	160.0	423.6	84.6	7.7	97.2
2005	4647	3570.6	1386.0	562.8	847.4	160.0	424.9	84.6	8.4	96.4
2006	4646	3571.7	1392.6	554.0	855.5	168.7	417.6	81.6	7.2	94.3
2007	4614	3526.7	1408.4	561.6	863.9	148.3	368.2	78.8	7.3	90.3
2008	4520	3459.1	1339.5	539.7	844.7	162.1	397.3	79.6	6.9	89.3
2009	4196	3220.7	1238.0	444.9	821.8	159.2	390.0	78.1	6.0	82.8
2010	4288	3303.4	1257.6	477.9	818.1	165.9	415.4	80.0	5.7	82.7
2011	4178	3194.7	1245.9	464.6	808.1	147.4	362.1	78.4	5.7	82.5
2012	4098	3133.5	1227.4	446.5	778.3	149.5	368.8	76.3	5.0	81.8
2013	4015	3053.6	1164.6	432.1	773.2	152.2	369.3	76.4	5.0	80.9
2014	3880	2908.4	1104.9	419.9	779.2	134.1	311.7	75.2	4.9	78.4
2015	3937	2964.5	1111.0	430.5	793.5	142.5	329.6	74.5	5.1	77.9
2016	3942	2965.7	1086.1	432.4	811.8	141.2	338.5	75.1	5.1	75.6
2017	3977	2983.3	1078.4	445.8	825.6	142.3	334.1	76.2	5.2	75.8
2018	3893	2907.1	1015.2	449.6	828.0	138.8	321.7	76.5	4.6	72.6

GHGs EMISSIONS – EU27_2020 – ENERGY RELATED (MILLION ton CO_2 equiv.)



* GHG emissions without LULUCF, with indirect CO_2 and including international aviation.

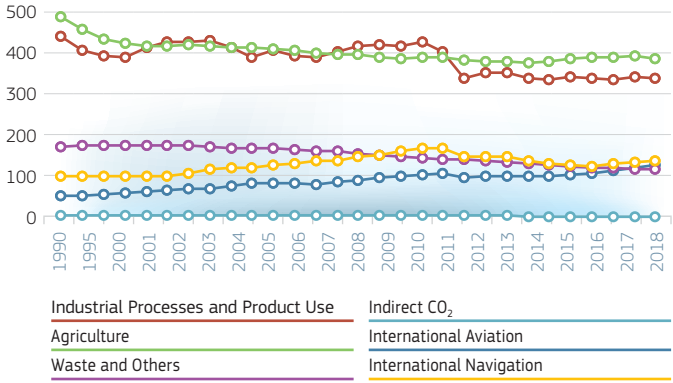
Source: European Environment Agency, June 2020
Methodology and Notes: **See Appendices**

4.1.1 Greenhouse Gas (GHG) Emissions

EU27_2020 – NOT ENERGY RELATED

Million ton CO_2 equiv.	GHG Emissions – National Total *	GHG Emissions other than from Energy	of which:				International Aviation	International Navigation
			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 CO_2 equiv.)



* GHG emissions without LULUCF, with indirect CO_2 and including international aviation.

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

4.1.2 CO_2 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

* CO_2 emissions without LULUCF, with indirect CO_2 and including international aviation.

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

4.1.2 CO_2 Emissions

EU27_2020 AND MEMBER STATES – ENERGY RELATED

Million ton CO_2	2018								
		of which:							
	Energy	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

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

4.1.2 CO_2 Emissions

EU27_2020 AND MEMBER STATES – NOT ENERGY RELATED

	2018					
		of which:				
Million ton CO_2	CO_2 Emissions other than from Energy	Industrial Processes & Product Use	Agriculture	Waste & Others	Indirect CO_2	International Aviation
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

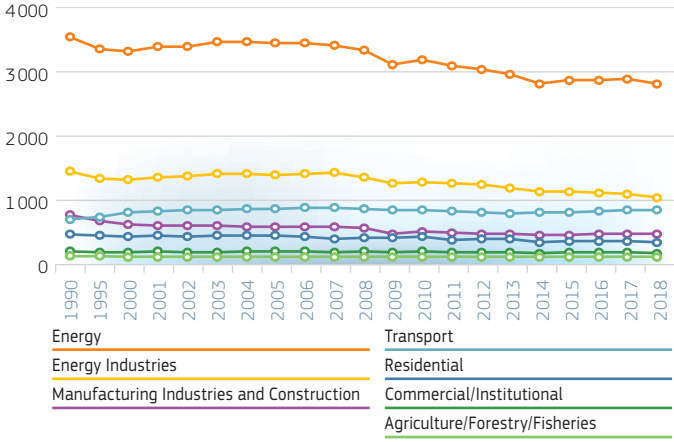
Source: European Environment Agency, June 2020
Methodology and Notes: **See Appendices**

4.1.2 CO_2 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

CO_2 EMISSIONS – EU27_2020 – TOTAL AND ENERGY RELATED (MILLION ton CO_2)



* CO_2 emissions without LULUCF, with indirect CO_2 and including international aviation.

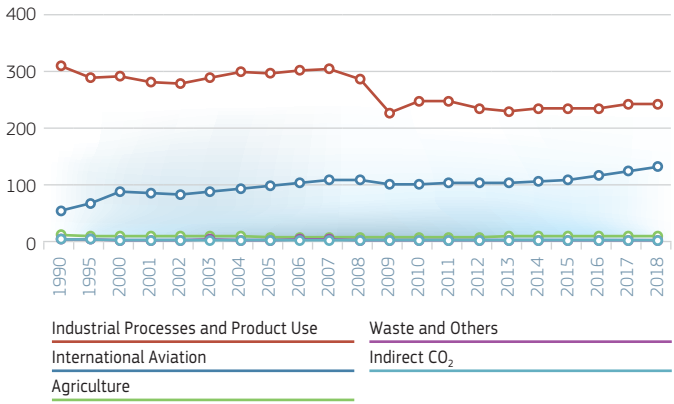
Source: European Environment Agency, June 2020
Methodology and Notes: **See Appendices**

4.1.2 CO_2 Emissions

EU27_2020 – NOT ENERGY RELATED

Million ton CO_2	CO_2 Emissions – National Total*	CO_2 Emissions other than from Energy	of which: Industrial Processes & Product Use	Agriculture	Waste & Others	Indirect CO_2	International Aviation	International Navigation
1990	3 925.3	322.3	300.9	13.4	3.8	4.2	53.2	100.6
1995	3717.1	296.9	280.3	9.5	3.6	3.5	65.1	101.2
2000	3700.2	297.5	282.3	9.4	2.8	2.9	84.6	126.5
2001	3755.6	286.9	272.1	9.2	2.9	2.7	83.8	131.1
2002	3754.8	286.7	271.8	9.1	3.2	2.6	81.3	137.0
2003	3842.4	295.5	280.5	8.9	3.5	2.6	85.0	139.5
2004	3857.8	305.8	291.5	8.6	3.2	2.5	89.8	147.7
2005	3843.9	303.1	288.9	8.3	3.4	2.5	95.2	151.7
2006	3857.3	306.6	292.7	8.0	3.5	2.5	100.2	162.3
2007	3823.4	310.0	296.1	8.1	3.4	2.4	104.9	169.7
2008	3739.2	292.7	278.9	8.0	3.4	2.3	106.3	167.7
2009	3439.9	234.0	220.4	8.1	3.3	2.2	97.5	149.2
2010	3543.1	254.1	240.7	7.8	3.4	2.2	99.2	148.2
2011	3439.7	254.0	240.5	8.1	3.2	2.1	101.4	148.8
2012	3362.9	240.3	226.8	8.3	3.3	2.0	100.3	137.6
2013	3282.8	236.4	222.5	8.9	3.1	1.9	101.3	129.5
2014	3149.2	241.5	227.6	9.0	3.1	1.8	103.1	126.0
2015	3207.4	240.9	227.2	9.1	2.8	1.8	106.9	125.7
2016	3218.3	242.6	228.6	9.4	2.9	1.7	113.4	131.8
2017	3251.4	249.8	235.8	9.1	3.1	1.7	122.3	134.1
2018	3184.0	249.4	235.7	9.3	2.9	1.6	128.1	137.0

CO_2 EMISSIONS – EU27_2020 – NOT ENERGY RELATED (MILLION ton CO_2)



* CO_2 emissions without LULUCF, with indirect CO_2 and including international aviation.

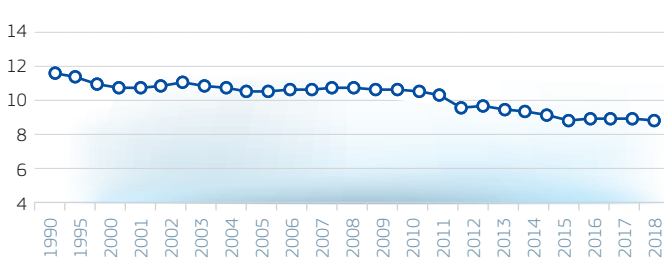
Source: European Environment Agency, June 2020
Methodology and Notes: See Appendices

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 CO_2 eq./cap

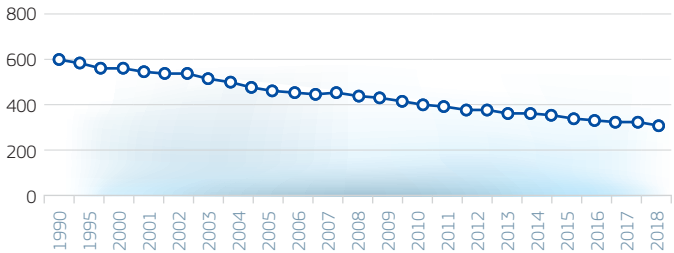


Source: European Environment Agency, June 2020
Methodology and Notes: **See Appendices**

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	1393.2	1813.4	1463.9	1265.2	1271.6	1158.2
CZ	1865.8	1091.3	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	1881.4	1068.3	1197.0	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	1341.0	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	1285.5	551.8	616.7	465.2	452.2	453.4
LT	1738.1	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	2714.0	1380.3	1117.9	907.2	896.5	849.9
PT	463.8	483.6	382.0	378.6	392.6	367.5
RO	2410.2	1260.3	900.5	685.5	655.2	620.1
SI	761.1	591.5	515.7	441.0	415.2	402.6
SK	1543.5	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

GHG TO GDP INTENSITY – EU27_2020 – ton CO_2/M€'15 EU27_2020



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

5 Country Profiles

Country Profiles

Summary

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

Methodology and Notes: **See Appendices**

	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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	**15.7**	**16.1**	**18.8**	**21.2**	**22.2**	**22.8**
Combustible Fuels	8.5	8.7	9.5	8.5	8.5	8.2
Nuclear	5.7	5.8	5.9	5.9	5.9	5.9
Hydro	1.4	1.4	1.4	1.4	1.4	1.4
Wind	0.0	0.2	0.9	2.2	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)	**84.0**	**86.8**	**94.9**	**69.4**	**86.2**	**74.6**
Solid Fossil Fuels, Peat & Products, Oil Shale	12.9	8.2	4.2	2.1	0.1	0.1
Oil and Petroleum Products	0.8	1.7	0.4	0.2	0.2	0.2
Natural Gas	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 (%)	**78.2**	**80.0**	**77.9**	**83.4**	**74.4**	**82.3**
of Solid Fossil Fuels	91.2	101.3	97.5	95.5	94.8	104.1
of Hard Coal	93.5	102.0	100.0	96.1	94.2	105.8
of Oil and Petroleum Products	100.2	100.8	101.3	103.8	97.1	100.7
of Crude and NGL	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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	**15.3**	**17.4**	**20.1**	**21.9**	**22.3**	**22.3**
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)	**73.5**	**82.6**	**85.8**	**83.8**	**86.9**	**87.9**
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	3915	5551	5470	5693	6087	6125
of which LPG	68	74	81	104	100	96
of which Motor Gasoline	1922	2125	1868	1570	1600	1 601
of which Gas/Diesel Oil	1886	3322	3492	3981	4333	4393
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)	4017	4465	4358	4020	4109	4105
Final Electricity per Capita (KWh/cap)	4804	5256	5183	5169	5424	5467
Import Dependency (%)	**22.7**	**27.8**	**25.3**	**31.9**	**37.2**	**36.7**
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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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	3509	4309	3939	3693	3863	3923
of which LPG	6	6	1	2	1	2
of which Motor Gasoline	1590	1823	1527	1020	905	821
of which Gas/Diesel Oil	1856	2417	2365	2665	2954	3095
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)	3804	3762	3311	3029	3067	3069
Final Electricity per Capita (KWh/cap)	5371	5923	5588	5360	5403	5619
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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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	6438	7343	7322	5563	5621	5712
of which LPG	17	12	46	257	246	242
of which Motor Gasoline	3418	4114	3867	2574	2451	2403
of which Gas/Diesel Oil	2252	2489	2730	2254	2415	2504
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)	2589	2831	2549	2218	2265	2218
Final Electricity per Capita (KWh/cap)	4005	4640	4777	4677	5012	4606
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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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	1459	1815	1943	1942	2161	2085
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	1038	1186	1303	1537	1476
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)	1877	2278	2201	2012	2138	2114
Final Electricity per Capita (KWh/cap)	2631	3344	3686	3631	3846	3940
Import Dependency (%)	**48.5**	**52.6**	**46.7**	**48.8**	**53.1**	**52.7**
of Solid Fossil Fuels	110.9	91.3	102.5	103.0	100.7	91.3
of 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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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 CO_2)						
CO_2 Emissions – National total*	476.4	508.5	442.5	369.7	362.6	359.7
GHG Emissions – National total*	560.5	595.1	522.6	449.1	442.6	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. CO_2, 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

Methodology and Notes: **See Appendices**

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	**1.0**	**1.1**	**1.6**	**1.8**	**1.8**	**1.8**
Combustible Fuels	1.0	1.1	1.5	1.5	1.5	1.5
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)	**3.4**	**4.4**	**5.3**	**4.5**	**5.0**	**5.1**
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 (%)	**98.6**	**100.7**	**100.6**	**97.3**	**95.9**	**92.5**
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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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	1 046	1 006	1 063	1 062
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)	1 623	2 040	2 183	2 205	2 334	2 478
Final Electricity per Capita (KWh/cap)	1 880	2 547	2 931	3 253	3 325	3 444
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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	**5.7**	**4.6**	**3.6**	**3.6**	**3.3**	**3.4**
Combustible Fuels	2.5	2.5	2.5	2.2	1.8	1.8
Nuclear	2.4	1.2	0.0	0.0	0.0	0.0
Hydro	0.9	0.9	0.9	0.9	0.9	0.9
Wind	0.0	0.0	0.1	0.4	0.5	0.5
Solar	0.0	0.0	0.0	0.1	0.1	0.1
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	**11.3**	**14.6**	**5.5**	**4.7**	**3.9**	**3.3**
Solid Fossil Fuels, Peat & Products, Oil Shale	0.0	0.0	0.0	0.0	0.0	0.0
Oil and Petroleum Products	0.7	0.4	0.6	0.3	0.1	0.1
Natural Gas	1.6	3.0	3.2	2.0	0.6	0.3
Nuclear	8.4	10.3	0.0	0.0	0.0	0.0
Renewables and Biofuels	0.6	0.8	1.7	2.4	3.1	2.7
Wastes non-RES	0.0	0.0	0.0	0.1	0.1	0.1
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			1.1	1.0	0.6	0.6
CHP Electricity Generation (TWh)			2.0	1.5	1.1	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	1026	1359	1421	1647	1848	1970
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	1313	1519	1628
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)	2093	2677	2254	2459	2702	2775
Final Electricity per Capita (KWh/cap)	1764	2377	2652	3198	3532	3702
Import Dependency (%)	**57.8**	**55.3**	**79.0**	**75.5**	**72.0**	**74.2**
of Solid Fossil Fuels	101.7	101.0	95.7	90.6	107.8	99.0
of Hard Coal	100.0	100.0	109.7	90.1	109.0	98.8
of Oil and Petroleum Products	101.0	93.4	98.7	100.7	95.0	98.4
of Crude and NGL	94.5	95.3	99.0	99.5	99.5	99.2
of Natural Gas	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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	**1.2**	**1.7**	**1.7**	**2.0**	**1.7**	**1.7**
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)	**1.2**	**4.1**	**4.6**	**2.8**	**2.2**	**2.2**
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	1588	2341	2124	1863	1842	1967
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	1824	1760	1570	1541	1638
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)	8433	10411	9254	7425	7332	7490
Final Electricity per Capita (KWh/cap)	13319	13340	13132	11056	10826	10671
Import Dependency (%)	**99.6**	**97.4**	**97.0**	**95.9**	**95.5**	**95.1**
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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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	2971	3932	3791	3873	4199	4435
of which LPG	0	33	29	30	26	23
of which Motor Gasoline	1414	1568	1348	1283	1368	1418
of which Gas/Diesel Oil	1557	2328	2414	2559	2804	2994
Final Consumption Biofuels	0	3	175	175	165	193
Pure and Blended Biogasoline	0	3	57	43	46	50
Pure and Blended Biodiesel	0	0	118	133	118	143
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	23.6	26.3	24.6	23.3	24.5	24.5
Final Energy Consumption 2020-2030 (Mtoe)	16.2	18.7	17.5	17.4	18.5	18.5
Primary Energy Intensity 2020-2030 (toe/M€'15)	286	257	243	208	205	195
Energy Intensity GAE/GDP2010 (toe/M€'15)	305	278	262	225	223	212
Energy per Capita – GIC/pop (kgoe/cap)	2468	2823	2655	2557	2725	2732
Final Electricity per Capita (KWh/cap)	2880	3203	3416	3682	3929	4032
Import Dependency (%)	**55.0**	**62.3**	**56.9**	**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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	**0.0**	**0.0**	**0.6**	**0.7**	**0.7**	**0.7**
Combustible Fuels	0.0	0.0	0.6	0.6	0.6	0.6
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)	**1.9**	**2.2**	**2.1**	**1.3**	**1.7**	**2.0**
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 (%)	**100.2**	**100.0**	**99.0**	**97.3**	**103.0**	**97.8**
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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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	5960	7892	7181	7264	7671	7757
of which LPG	16	22	21	14	12	8
of which Motor Gasoline	2016	2137	1767	1542	1507	1543
of which Gas/Diesel Oil	3892	5693	5351	5662	6108	6161
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)	3652	4192	4171	3923	3967	3852
Final Electricity per Capita (KWh/cap)	6441	7011	7164	7127	7169	7149
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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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	9135	11597	15811	15281	20158	20716
of which LPG	480	1750	1824	1791	2012	2039
of which Motor Gasoline	5248	4173	4243	3654	4219	4386
of which Gas/Diesel Oil	3404	5670	9740	9817	13900	14257
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)	2332	2425	2672	2520	2769	2812
Final Electricity per Capita (KWh/cap)	2563	2751	3122	3363	3576	3699
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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	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	3134	3983	4723	5041	5758	5916
of which LPG	0	55	20	63	90	94
of which Motor Gasoline	1304	1600	1412	1269	1333	1320
of which Gas/Diesel Oil	1760	2304	3180	3676	4285	4446
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)	1637	1809	1725	1604	1707	1720
Final Electricity per Capita (KWh/cap)	1511	1817	2036	2166	2275	2333
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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	**2.6**	**3.0**	**3.2**	**3.4**	**3.6**	**3.8**
Combustible Fuels	1.1	1.4	1.3	1.1	1.3	1.5
Nuclear	0.7	0.7	0.7	0.7	0.7	0.7
Hydro	0.8	1.0	1.3	1.3	1.3	1.3
Wind	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.2	0.2	0.2
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	**13.6**	**15.1**	**16.4**	**15.1**	**16.3**	**16.3**
Solid Fossil Fuels, Peat & Products, Oil Shale	4.6	5.3	5.3	4.4	4.8	4.6
Oil and Petroleum Products	0.1	0.0	0.0	0.0	0.0	0.0
Natural Gas	0.3	0.3	0.5	0.4	0.5	0.5
Nuclear	4.8	5.9	5.7	5.6	6.3	5.8
Renewables and Biofuels	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 (%)	**52.8**	**52.5**	**49.5**	**49.7**	**51.0**	**51.3**
of Solid Fossil Fuels	18.8	21.0	19.3	19.1	17.4	18.9
of Hard Coal	118.2	100.0	135.3	124.2	100.7	90.4
of Oil and Petroleum Products	101.5	101.2	99.2	99.6	103.2	99.2
of Crude and NGL	87.2	0.0	0.0	0.0	0.0	0.0
of Natural Gas	99.3	99.6	99.3	99.6	99.0	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 CO_2)						
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. CO_2, 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 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

Methodology and Notes: **See Appendices**

	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	1347	1694	2055	1881	2422	2410
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	1014	1453	1267	1779	1804
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)	3284	3480	3286	3000	3173	3132
Final Electricity per Capita (KWh/cap)	4077	4253	4477	4495	4747	4765
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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	**16.3**	**16.5**	**15.6**	**16.6**	**17.2**	**17.2**
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)	**69.8**	**70.3**	**80.4**	**68.4**	**67.1**	**70.0**
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	3872	4147	4086	3542	3729	3790
of which LPG	0	0	0	0	0	0
of which Motor Gasoline	1748	1835	1531	1361	1302	1283
of which Gas/Diesel Oil	1947	2167	2435	2109	2352	2426
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)	6336	6654	6886	5961	6220	6329
Final Electricity per Capita (KWh/cap)	14636	15421	15604	14346	14726	15013
Import Dependency (%)	**55.5**	**54.5**	**48.8**	**48.0**	**44.0**	**44.9**
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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	**33.7**	**33.4**	**36.5**	**39.7**	**39.8**	**41.2**
Combustible Fuels	7.5	7.1	8.7	7.8	7.4	8.4
Nuclear	9.5	9.5	9.0	9.7	9.0	8.7
Hydro	16.5	16.3	16.7	16.3	16.5	16.4
Wind	0.2	0.5	2.0	5.8	6.6	7.3
Solar	0.0	0.0	0.0	0.1	0.2	0.4
Geothermal						
Tide, Wave and Ocean						
Gross Electricity Generation, by Fuel (TWh)	**145.3**	**158.4**	**148.5**	**162.1**	**164.3**	**163.4**
Solid Fossil Fuels, Peat & Products, Oil Shale	1.7	1.2	1.8	0.6	0.5	0.6
Oil and Petroleum Products	1.5	1.4	1.8	0.3	0.3	0.3
Natural Gas	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	7168	7072	6905	6120	5706	5431
of which LPG	0	1	1	2	0	0
of which Motor Gasoline	4208	3941	3228	2395	2181	2039
of which Gas/Diesel Oil	2677	2799	3408	3491	3278	3098
Final Consumption Biofuels	0	145	338	820	1265	1364
Pure and Blended Biogasoline	0	138	192	129	95	119
Pure and Blended Biodiesel	0	6	146	691	1170	1245
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)	5384	5735	5429	4831	5034	5016
Final Electricity per Capita (KWh/cap)	14526	14504	14048	12810	12732	12605
Import Dependency (%)	**39.3**	**37.9**	**37.8**	**30.0**	**26.6**	**29.2**
of Solid Fossil Fuels	105.4	105.9	113.7	97.4	101.3	100.3
of Hard Coal	107.7	104.3	115.2	99.6	105.3	97.1
of Oil and Petroleum Products	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 CO_2)						
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. CO_2, 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

Methodology and Notes: **See Appendices**

	2000	2005	2010	2015	2017	2018
Installed Electricity Capacity (GW)	**78.4**	**82.4**	**93.7**	**96.4**	**109.3**	**108.3**
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)	**377.1**	**398.4**	**382.1**	**338.1**	**336.1**	**330.7**
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 (%)	**-17.1**	**13.4**	**29.0**	**37.7**	**35.5**	**35.4**
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 CO_2)						
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. CO_2, including international aviation, excl. international maritime transport.

Appendices

Appendices

Summary

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 translitteration.

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

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

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

ESTAT Energy Database – EN	
Code	**Dissemination label**
C0000X0350-0370	Solid fossil fuels
C0110	Anthracite
C0121	Coking coal
C0129	Other bituminous coal
C0210	Sub-bituminous coal
C0220	Lignite
C0320	Patent fuels
C0311	Coke oven coke
C0312	Gas coke
C0340	Coal tar
C0330	Brown coal briquettes
C0350-0370	Manufactured gases
C0360	Gas works gas
C0350	Coke oven gas
C0371	Blast furnace gas
C0379	Other recovered gases
P1000	Peat and peat products
P1100	Peat
P1200	Peat products
S2000	Oil shale and oil sands
04000XBIO	Oil and petroleum products
04100_TOT	Crude oil
04200	Natural gas liquids
04300	Refinery feedstocks
04400X4410	Additives and oxygenates (excluding biofuel portion)
04500	Other hydrocarbons
04610	Refinery gas
04620	Ethane
04630	Liquefied petroleum gas
04652XR5210B	Motor gasoline (excluding biofuel portion)
04651	Aviation gasoline
04653	Gasoline-type jet fuel
04661XR5230B	Kerosene-type jet fuel (excluding biofuel portion)
04669	Other kerosene
04640	Naphtha
04671XR5220B	Gas oil and diesel oil (excluding biofuel portion)
04680	Fuel oil
04691	White spirit and special boiling point industrial spirits
04692	Lubricants
04695	Bitumen
04694	Petroleum coke
04693	Paraffin waxes
04699	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

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

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
M€ '2010	millions of euro, chain-linked volumes, reference year 2010, at 2010 exchange rates
m^3	cubic meter
Mio	million
MS	European Union Member State
MSW	municipal solid waste
Mtoe	million ton of oil equivalent
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

FROM: \ TO:	TJ	Mtoe	GWh
	Multiply by		
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

FROM: \ TO:	l	bbl	gal US	gal UK
	Multiply by			
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

FROM: \ TO:	t	lt	st
	Multiply by		
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 CO_2 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 20202-2030] = [GIC 2020-2030] – Final non-energy consumption [FC_NE].

PRIMARY ENERGY INTENSITY 2020-2030

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

PRIMARY ENERGY PRODUCTION – INDIGENOUS PRODUCTION

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

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

PUMPING, PUMPED STORAGE

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

RENEWABLES AND BIOFUELS (RES):

Renewables and biofuels [RA000] cover hydro power [RA100], tide, wave and ocean power [RA500], wind power [RA300], solar photovoltaic [RA420] and solar thermal [RA410], geothermal [RA200], renewable municipal waste [W6210], ambient heat [RA600] and biofuels such as: primary solid biofuels [R5110-5150_W6000RI], charcoal [R5160], pure biogasoline [R5210P], blended biogasoline [R5210B], pure biodiesels [R5220P], blended biodiesels [R5220B], pure bio jet kerosene [R5230P], blended bio jet kerosene [R5230B] and other liquid biofuels [R5290].

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.
TransformaTOon output is the sum of the output from electricity & heat generaTOon 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, 1.1.2 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

CO_2 Intensity refers to CO_2 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.

Notes

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