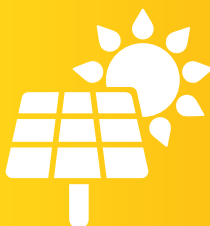




EU energy in figures



STATISTICAL
POCKETBOOK
2021

Manuscript completed in September 2021

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Introduction

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

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

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

The publication comprises five parts:

- Part 1. Overview of main data on World and European Union energy
- Part 2. Main energy statistics and indicators for the European Union and its Member States
- Part 3. Socio-economic indicators in the European Union
- Part 4. Greenhouse gas emissions in the European Union
- Part 5. Country profiles – main statistics and indicators for the European Union and its Member States

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

The appendices include a glossary and methodological notes.

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

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

Recommended sources of data:

European Commission websites:

DG Energy

Pocketbook and energy statistical datasheets:

<https://ec.europa.eu/energy/en/data/energy-statistical-pocketbook>

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:

<https://ec.europa.eu/clima/policies/strategies>

Websites of other EU bodies and international organisations:

European Environment Agency

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

International Energy Agency

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

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

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Overview



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Overview

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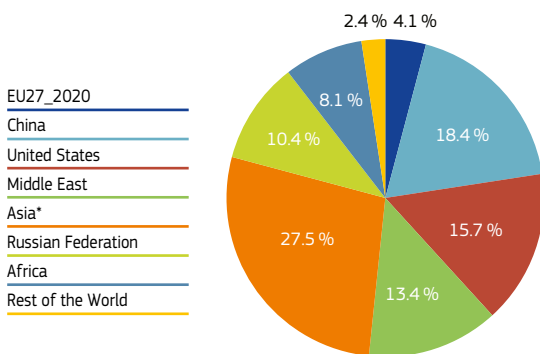
1.1 Energy in the World (Overview)

1.1.1 World Energy Production by Region

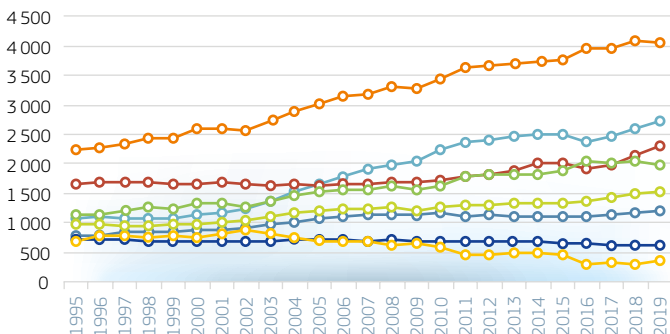
(Mtoe)

	2000	2005	2010	2015	2018	2019
EU27_2020	679	706	697	654	627	608
China	1,124	1,671	2,235	2,504	2,594	2,719
United States	1,666	1,630	1,723	2,022	2,158	2,310
Middle East	1,327	1,521	1,632	1,895	2,043	1,979
Asia*	2,585	3,027	3,445	3,774	4,083	4,056
Russian Federation	978	1,203	1,280	1,334	1,484	1,530
Africa	877	1,076	1,162	1,104	1,171	1,187
Rest of the World	764	700	601	441	294	356
World	9,999	11,535	12,775	13,728	14,454	14,745

TOTAL 2019 = 14 745 Mtoe



Mtoe



* non OECD and OECD Asia, excluding China.

Source: IEA Statistics, August 2021

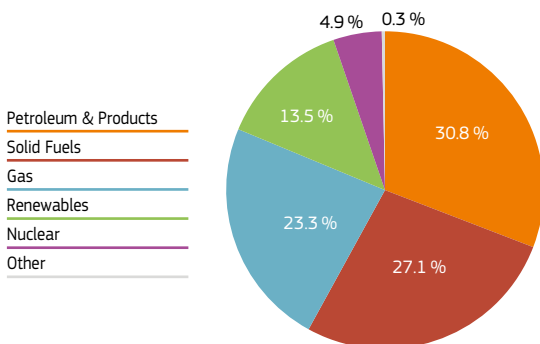
Methodology and Notes: [See Appendices](#)

1.1.2 World Energy Production by Fuel

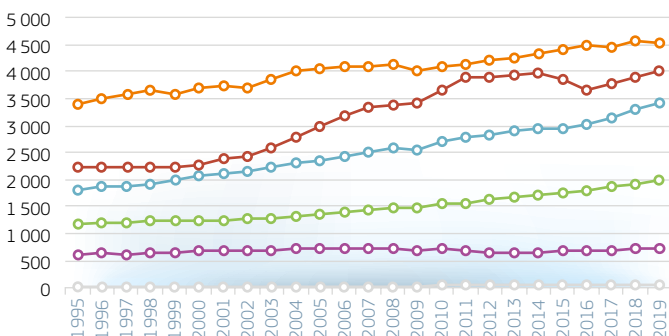
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	2000	2005	2010	2015	2018	2019
Petroleum and Products	3,711	4,060	4,105	4,428	4,563	4,549
Solid Fuels	2,277	2,997	3,662	3,868	3,915	4,002
Gas	2,060	2,367	2,711	2,965	3,287	3,431
Renewables	1,254	1,366	1,545	1,755	1,935	1,988
Nuclear	675	722	719	670	707	728
Other	22	23	34	41	48	48
Total	9,999	11,535	12,775	13,728	14,454	14,745

TOTAL 2019 = 14 745 Mtoe



Mtoe



Source: IEA Statistics, August 2021

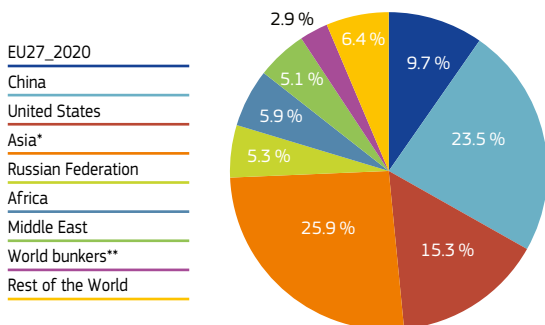
Methodology and Notes: [See Appendices](#)

1.1.3 World Total Energy Supply by Region

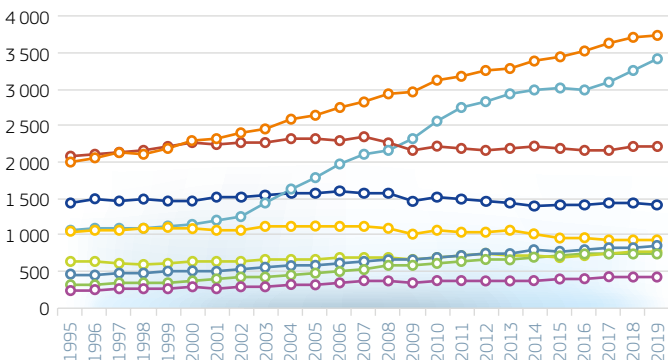
(Mtoe)

	2000	2005	2010	2015	2018	2019
EU27_2020	1,471	1,573	1,527	1,409	1,430	1,403
China	1,144	1,794	2,550	3,013	3,256	3,403
United States	2,273	2,318	2,216	2,186	2,216	2,213
Asia*	2,279	2,644	3,124	3,444	3,724	3,749
Russian Federation	619	652	693	692	772	773
Africa	490	586	687	773	827	857
Middle East	354	470	607	715	749	744
World bunkers**	274	317	359	381	422	420
Rest of the World	1,097	1,115	1,052	961	927	924
World	10,003	11,470	12,813	13,574	14,323	14,486

TOTAL 2019 = 14 486 Mtoe



Mtoe



* non OECD and OECD Asia, excluding China.

** International aviation and international navigation.

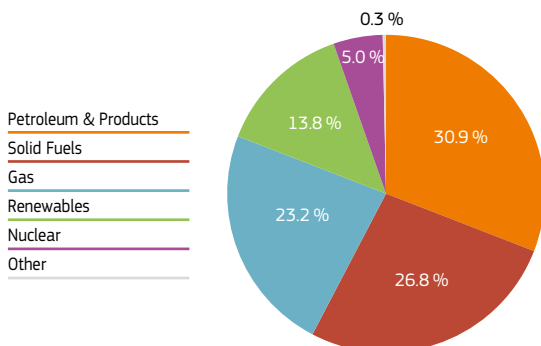
Source: IEA Statistics, August 2021

Methodology and Notes: [See Appendices](#)

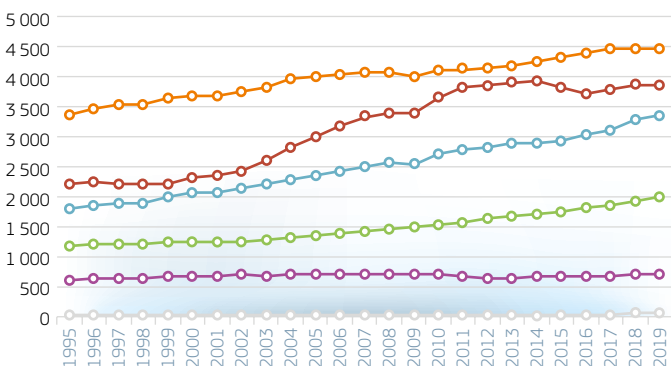
1.1.4 World Total Energy Supply by Fuel (Mtoe)

	2000	2005	2010	2015	2018	2019
Petroleum and Products	3,669	4,012	4,126	4,329	4,476	4,475
Solid Fuels	2,314	2,991	3,654	3,845	3,877	3,878
Gas	2,067	2,356	2,734	2,926	3,278	3,363
Renewables	1,255	1,367	1,548	1,761	1,937	1,994
Hydro*	225	252	297	335	361	363
Geothermal*	52	53	62	77	96	100
Solar/Wind/Other*	8	17	49	127	195	220
Biofuels and Waste*	991	1,067	1,173	1,262	1,330	1,357
Nuclear	675	722	719	670	707	728
Other	22	23	34	43	49	48
Total	10,003	11,470	12,813	13,574	14,323	14,486

TOTAL 2019 = 14 486 Mtoe



Mtoe



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

Source: IEA Statistics, August 2021

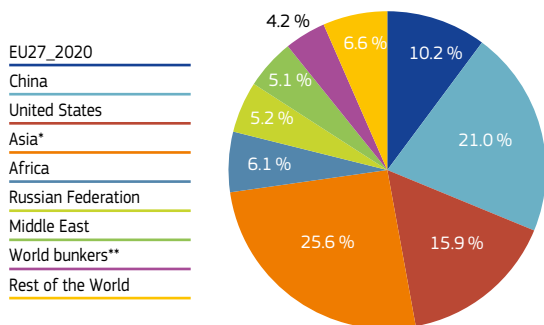
Methodology and Notes: [See Appendices](#)

1.1.5 World Total Final Consumption by Region

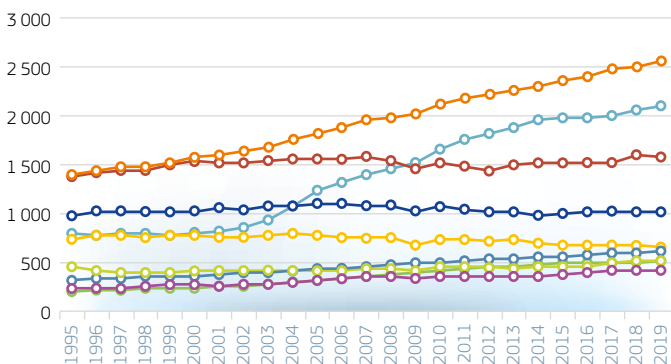
(Mtoe)

	2000	2005	2010	2015	2018	2019
EU27_2020	1,027	1,092	1,070	994	1,022	1,015
China	791	1,234	1,652	1,979	2,065	2,101
United States	1,546	1,563	1,513	1,511	1,593	1,588
Asia*	1,572	1,813	2,118	2,366	2,512	2,558
Africa	363	432	496	564	601	613
Russian Federation	418	412	447	453	514	521
Middle East	240	312	416	492	499	510
World bunkers**	274	317	359	381	422	420
Rest of the World	772	777	731	667	673	655
World	7,004	7,953	8,801	9,408	9,901	9,983

TOTAL 2019 = 9983 Mtoe



Mtoe



* non OECD and OECD Asia, excluding China.

** International aviation and international navigation.

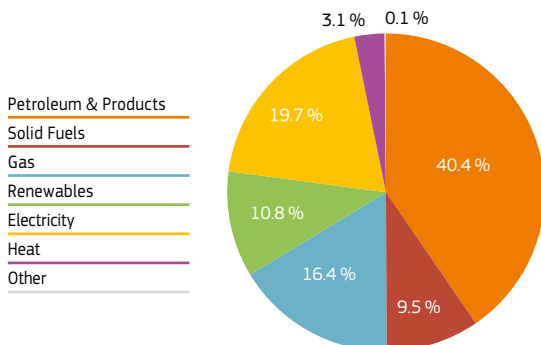
Source: IEA Statistics, August 2021

Methodology and Notes: [See Appendices](#)

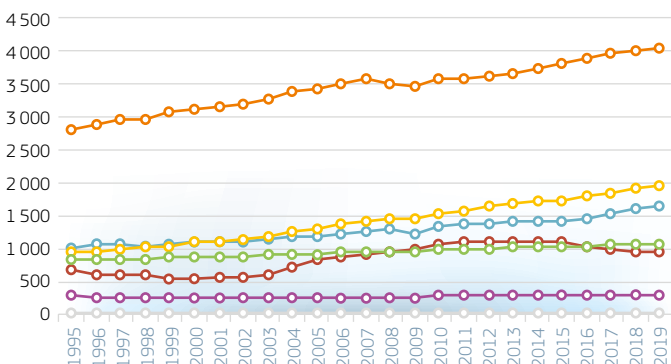
1.1.6 World Total Final Consumption by Fuel (Mtoe)

	2000	2005	2010	2015	2018	2019
Petroleum and Products	3,118	3,444	3,596	3,829	4,020	4,036
Solid Fuels	542	825	1,057	1,101	965	950
Gas	1,119	1,195	1,346	1,422	1,603	1,634
Renewables	877	921	981	1,033	1,062	1,078
Electricity	1,092	1,301	1,538	1,740	1,932	1,965
Heat	248	260	275	272	305	306
Other	7	7	8	10	13	14
Total	7,004	7,953	8,801	9,408	9,901	9,983

TOTAL 2019 = 9983 Mtoe



Mtoe



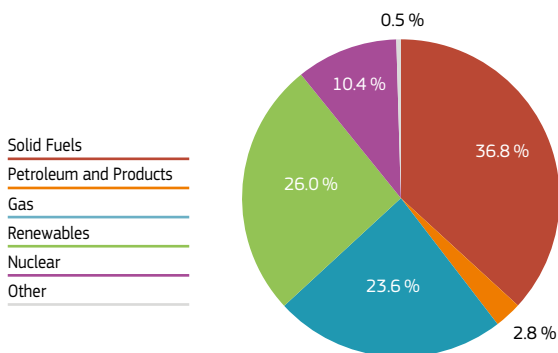
Source: IEA Statistics, August 2021

Methodology and Notes: [See Appendices](#)

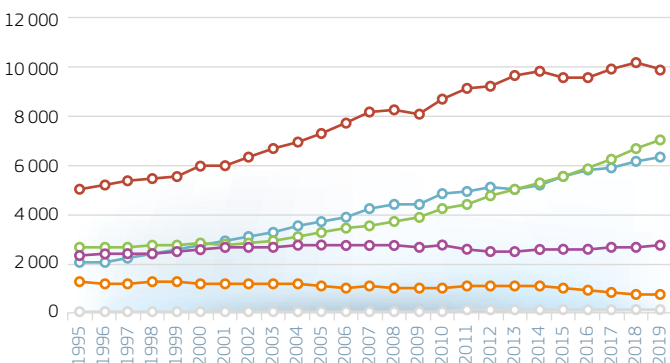
1.1.7 World Electricity Generation by Fuel (TWh)

	2000	2005	2010	2015	2018	2019
Solid Fuels	5,995	7,326	8,671	9,536	10,148	9,914
Petroleum and Products	1,188	1,128	967	1,023	780	747
Gas	2,771	3,702	4,844	5,535	6,154	6,346
Renewables	2,828	3,296	4,201	5,511	6,680	7,014
Hydro*	2,613	2,934	3,449	3,894	4,202	4,221
Solar/Wind/Other*	54	140	408	1,123	1,888	2,168
Biofuels and Waste*	162	228	362	509	622	655
Geothermal*	52	58	68	81	89	91
Nuclear	2,591	2,768	2,756	2,570	2,709	2,790
Other	54	67	88	99	125	124
Total	15,428	18,287	21,526	24,275	26,595	26,936

TOTAL 2019 = 26 936 TWh



TWh



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

Source: IEA Statistics, August 2021

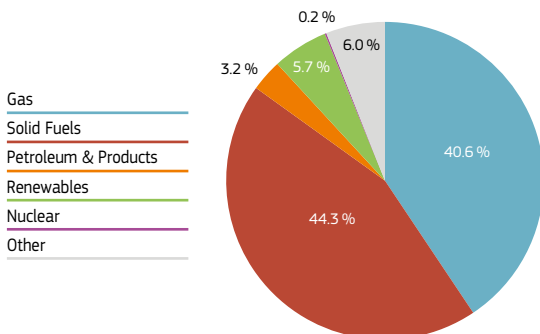
Methodology and Notes: [See Appendices](#)

1.1.8 World Heat Generation by Fuel

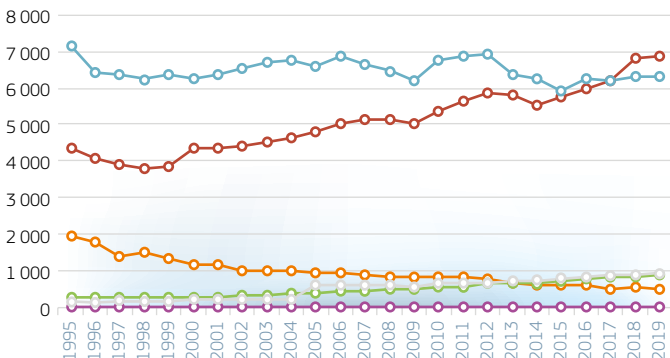
(PJ)

	2000	2005	2010	2015	2018	2019
Gas	6,240	6,606	6,776	5,894	6,287	6,284
Solid Fuels	4,332	4,794	5,367	5,774	6,822	6,853
Petroleum and Products	1,160	970	845	593	543	498
Renewables	296	395	584	724	833	876
Geothermal*	18	24	30	38	45	46
Solar/Wind/Other*	16	396	363	395	460	457
Biofuels and Waste*	414	531	777	949	1,109	1,173
Nuclear	19	21	27	26	26	26
Other	207	610	657	765	908	932
Total	12,254	13,396	14,257	13,775	15,419	15,470

TOTAL 2019 = 15 470 PJ



PJ



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

Source: IEA Statistics, August 2021

Methodology and Notes: [See Appendices](#)

1.1.9 World CO₂ Emissions by Region

(Mio ton CO₂)

	2000	2005	2010	2015	2018	2019
EU27_2020	3,266	3,389	3,134	2,825	2,789	2,651
China	3,138	5,449	7,872	9,178	9,756	9,919
United States	5,730	5,703	5,352	4,929	4,910	4,744
Asia*	5,034	5,879	7,094	8,118	8,721	8,829
Middle East	882	1,146	1,478	1,717	1,722	1,754
Russian Federation	1,474	1,482	1,529	1,533	1,602	1,640
Africa	662	869	1,027	1,163	1,228	1,263
World bunkers**	855	990	1,120	1,184	1,310	1,303
Rest of the World	2,199	2,176	1,968	1,715	1,599	1,615
World	23,240	27,085	30,575	32,362	33,637	32,319

TOTAL 2018: 32 319 Mt CO₂

EU27_2020

China

United States

Asia*

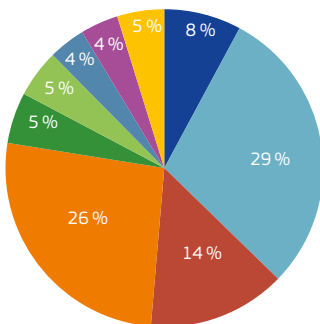
Middle East

Russian Federation

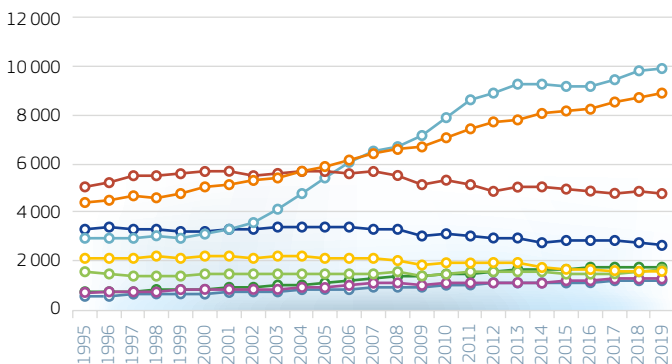
Africa

World bunkers**

Rest of the World



Mt CO₂



* non OECD and OECD Asia, excluding China.

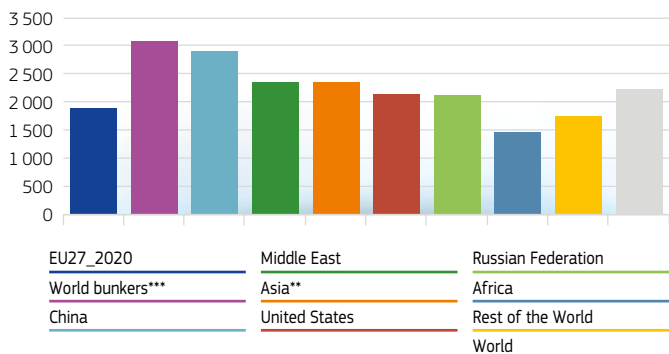
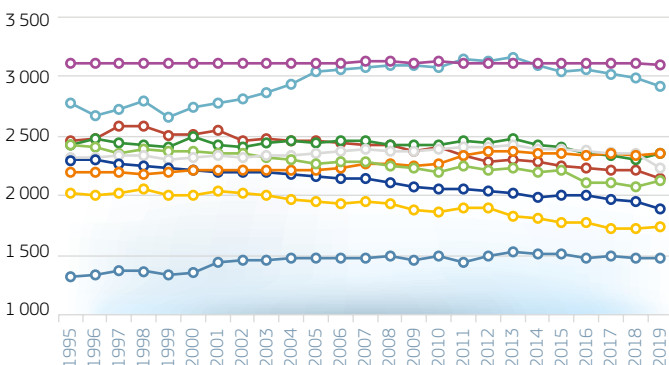
** International aviation and international navigation.

Sources: IEA Statistics, May 2021, estimates of world CO₂ emissions from fuel combustion

Methodology and Notes: [See Appendices](#)

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

	2000	2005	2010	2015	2018	2019
EU27_2020	2,220	2,154	2,053	2,005	1,950	1,890
World bunkers***	3,120	3,120	3,124	3,109	3,106	3,101
China	2,743	3,037	3,087	3,046	2,996	2,914
Middle East	2,492	2,439	2,436	2,403	2,299	2,358
Asia**	2,209	2,223	2,271	2,357	2,342	2,355
United States	2,521	2,461	2,415	2,254	2,215	2,144
Russian Federation	2,380	2,274	2,206	2,215	2,076	2,123
Africa	1,350	1,482	1,494	1,505	1,484	1,474
Rest of the World	2,004	1,951	1,871	1,784	1,726	1,748
World	2,323	2,361	2,386	2,384	2,348	2,231

WORLD AVERAGE 2019 = 2231 Kg CO₂ per toeKg CO₂ per toe* CO₂ Emissions from Fuel Combustion per Unit of Total Energy Supply.

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

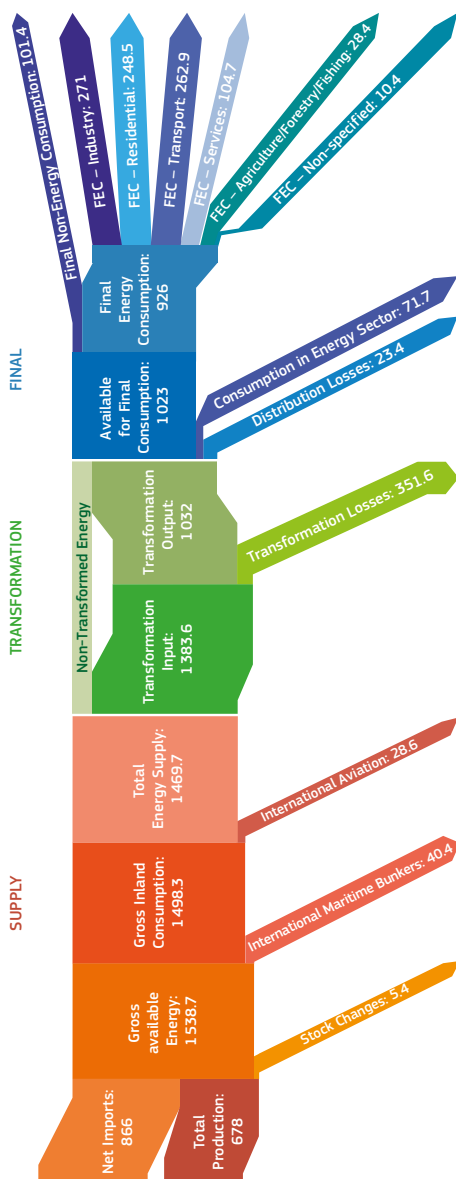
*** International aviation and international navigation.

Source: IEA Statistics, August 2021.

Methodology and Notes: See Appendices

1.2 Energy in the EU (Overview)

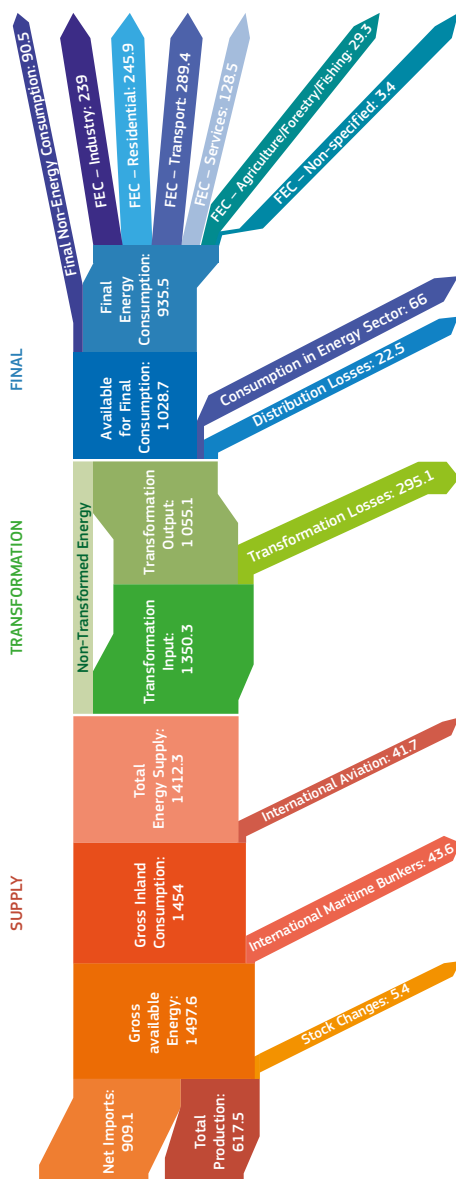
1.2.1 Energy Flow - 2000 (Mtoe)



Source: Eurostat, April 2021
 Methodology and Notes: [See Appendices](#)

1.2.2 Energy Flow - 2019

(Mtoe)



Source: Eurostat, April 2021

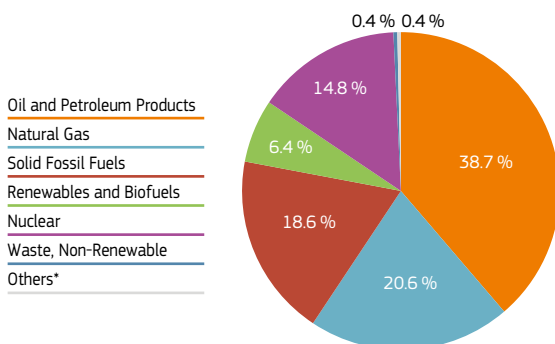
Methodology and Notes: [See Appendices](#)

1.2.3 Gross Inland Consumption

ENERGY MIX (%) – PRIMARY PRODUCTS ONLY

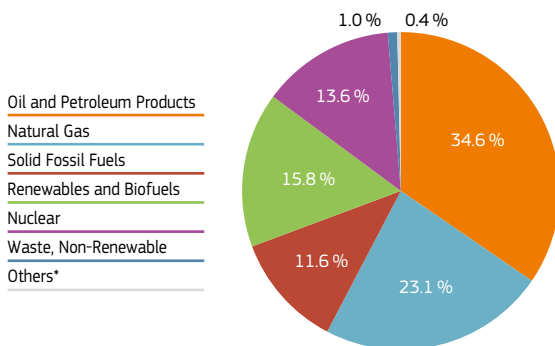
TOTAL PRIMARY PRODUCTS 2000: 1 497.5 Mtoe

(Total Primary and Secondary Products 2000: 1 498.3 Mtoe)



TOTAL PRIMARY PRODUCTS 2018: 1 454.9 Mtoe

(Total Primary and Secondary Products 2018: 1 454 Mtoe)



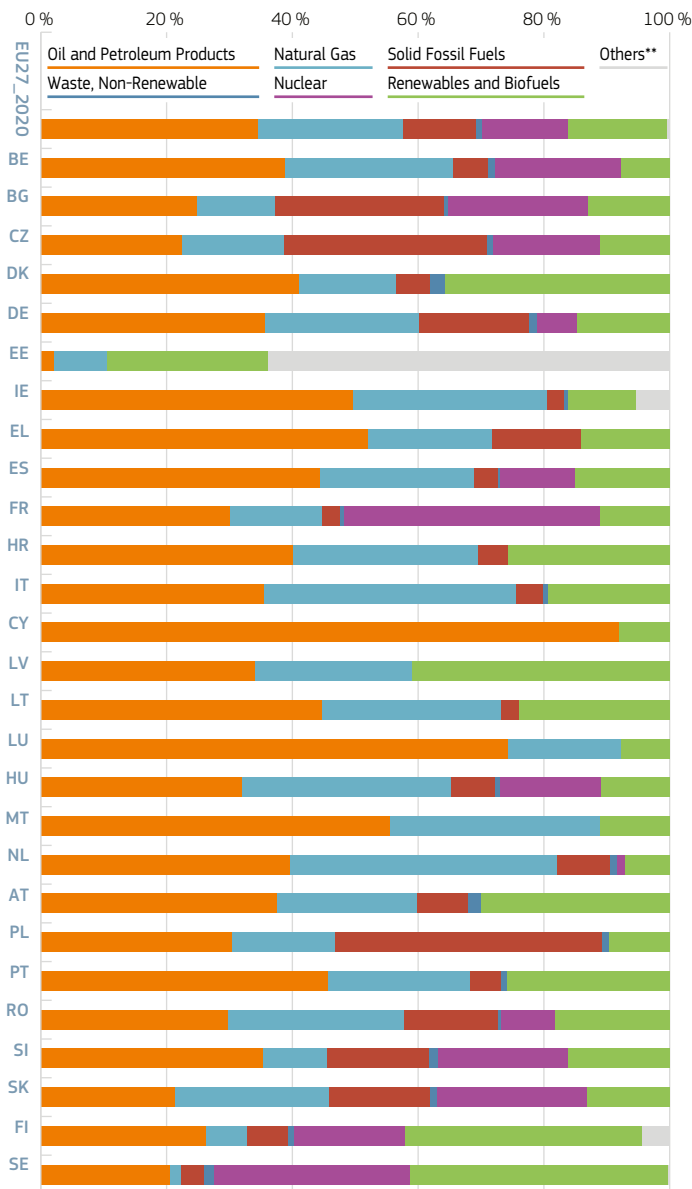
* Others = manufactured gases, peat and peat products, oil shale and oil sands.

Source: Eurostat, April 2021

Methodology and Notes: [See Appendices](#)

1.2.3 Gross Inland Consumption

ENERGY MIX* – 2019 (%)



* Primary Products Only.

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

Source: Eurostat, April 2021

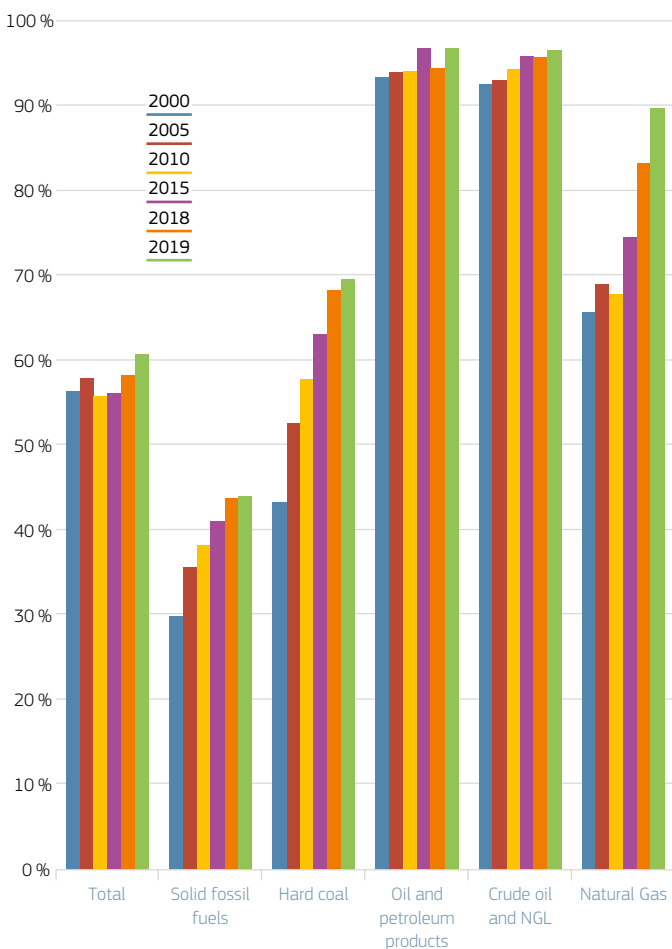
Methodology and Notes: [See Appendices](#)

1.2.4 Energy Import Dependency

BY FUEL – (%)

	2000	2005	2010	2015	2018	2019
Total	56.3	57.8	55.7	56.0	58.2	60.7
Solid Fossil Fuels	29.8	35.7	38.2	41.0	43.8	44.0
of which Hard Coal	43.2	52.5	57.7	62.9	68.3	69.6
Oil and Petroleum Products	93.3	93.9	94.0	96.8	94.5	96.8
of which Crude and NGL	92.5	93.0	94.4	95.9	95.7	96.6
Natural Gas	65.7	69.0	67.8	74.5	83.3	89.7

2000-2019 (%)

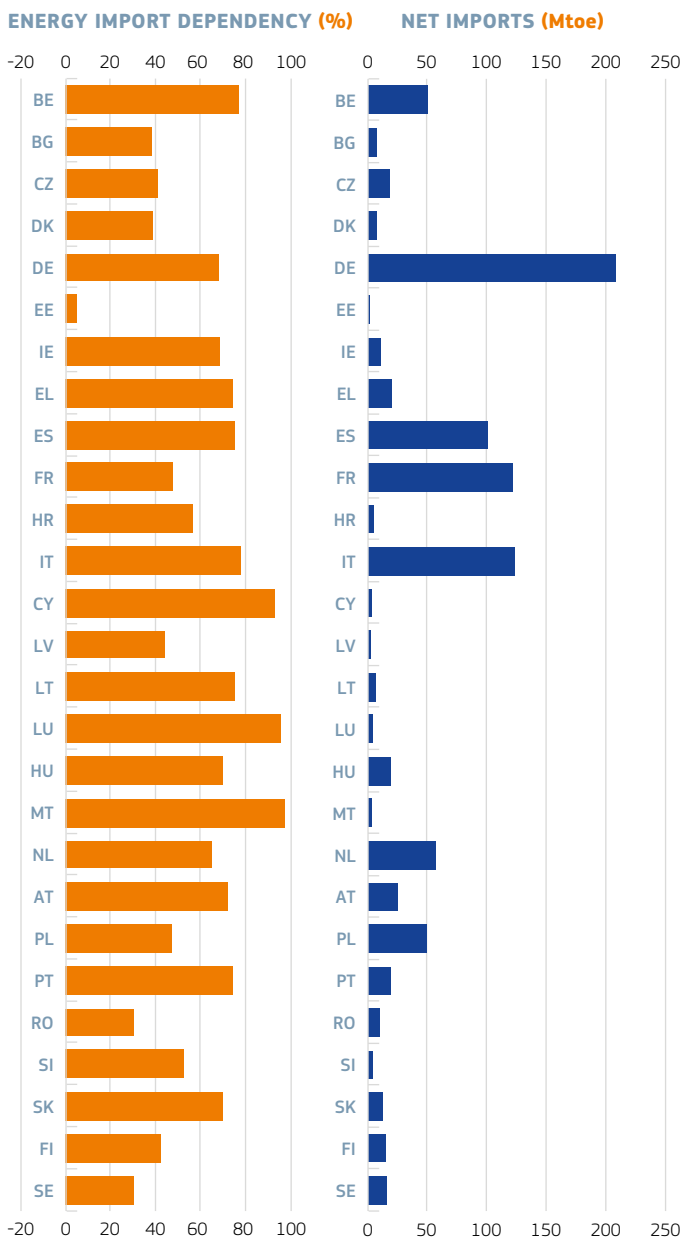


Source: Eurostat, April 2021

Methodology and Notes: [See Appendices](#)

1.2.5 Energy Import Dependency - Net Imports

2019



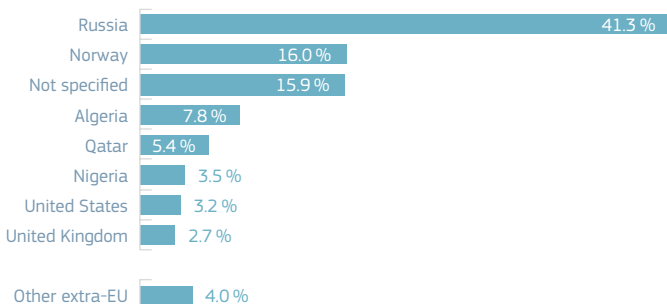
Source: Eurostat, April 2021

Methodology and Notes: [See Appendices](#)

1.2.6 Imports by Country of Origin

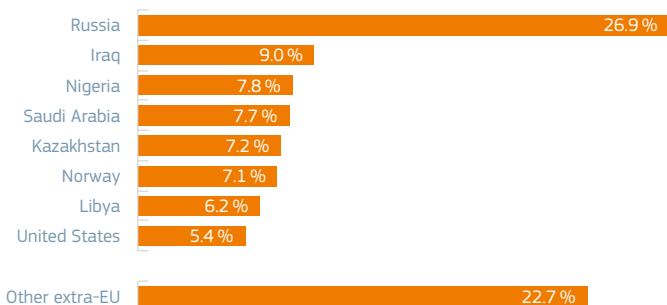
EU27_2020 IMPORTS* OF NATURAL GAS – 2019

Total extra-EU = 15 397 100.7 TJ-GCV (404.2 bn m³)



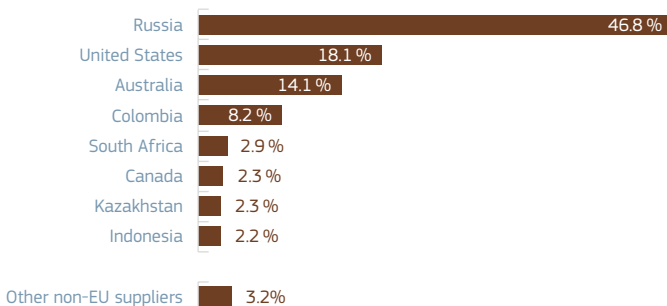
EU27_2020 IMPORTS* OF CRUDE OIL AND NGL – 2019

Total extra-EU = 507 975.2 kton



EU27_2020 IMPORTS* OF HARD COAL – 2019

Total Extra-EU = 116 631.8 kton



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

Source: Eurostat, April 2021

Methodology and Notes: [See Appendices](#)

1.3 EU Targets

1.3.1 Renewable Energy Targets*

	2019 Renewable energy shares					
	RE transport 2019	RE electricity 2019	RE Heating and cooling 2019	Overall RE Share 2019	Indicative 2017-2018	2020 RE target
%						
EU27_2020	8.9	34.1	22.1	19.7	n.a.	20
BE	6.8	20.8	8.3	9.9	9.2	13.0
BG	7.9	23.5	35.5	21.6	13.7	16.0
CZ	7.8	14.0	22.7	16.2	10.6	13.0
DK	7.2	65.4	48.0	37.2	25.5	30.0
DE	7.7	40.8	14.6	17.4	13.7	18.0
EE	5.1	22.0	52.3	31.9	22.6	25.0
IE	8.9	36.5	6.3	12.0	11.5	16.0
EL	4.0	31.3	30.2	19.7	14.1	18.0
ES	7.6	36.9	18.9	18.4	16.0	20.0
FR	9.2	22.4	22.5	17.2	18.6	23.0
HR	5.9	49.8	36.8	28.5	17.4	20.0
IT	9.0	35.0	19.7	18.2	12.9	17.0
CY	3.3	9.8	35.1	13.8	9.5	13.0
LV	5.1	53.4	57.8	41.0	37.4	40.0
LT	4.0	18.8	47.4	25.5	20.2	23.0
LU	7.7	10.9	8.7	7.0	7.5	11.0
HU	8.0	10.0	18.1	12.6	10.0	13.0
MT	8.7	8.0	25.7	8.5	6.5	10.0
NL	12.5	18.2	7.1	8.8	9.9	14.0
AT	9.8	75.1	33.8	33.6	30.3	34.0
PL	6.1	14.4	16.0	12.2	12.3	15.0
PT	9.1	53.8	41.6	30.6	27.3	31.0
RO	7.8	41.7	25.7	24.3	21.8	24.0
SI	8.0	32.6	32.2	22.0	21.9	25.0
SK	8.3	21.9	19.7	16.9	11.4	14.0
FI	21.3	38.1	57.5	43.1	34.7	38.0
SE	30.3	71.2	66.1	56.4	45.8	49.0

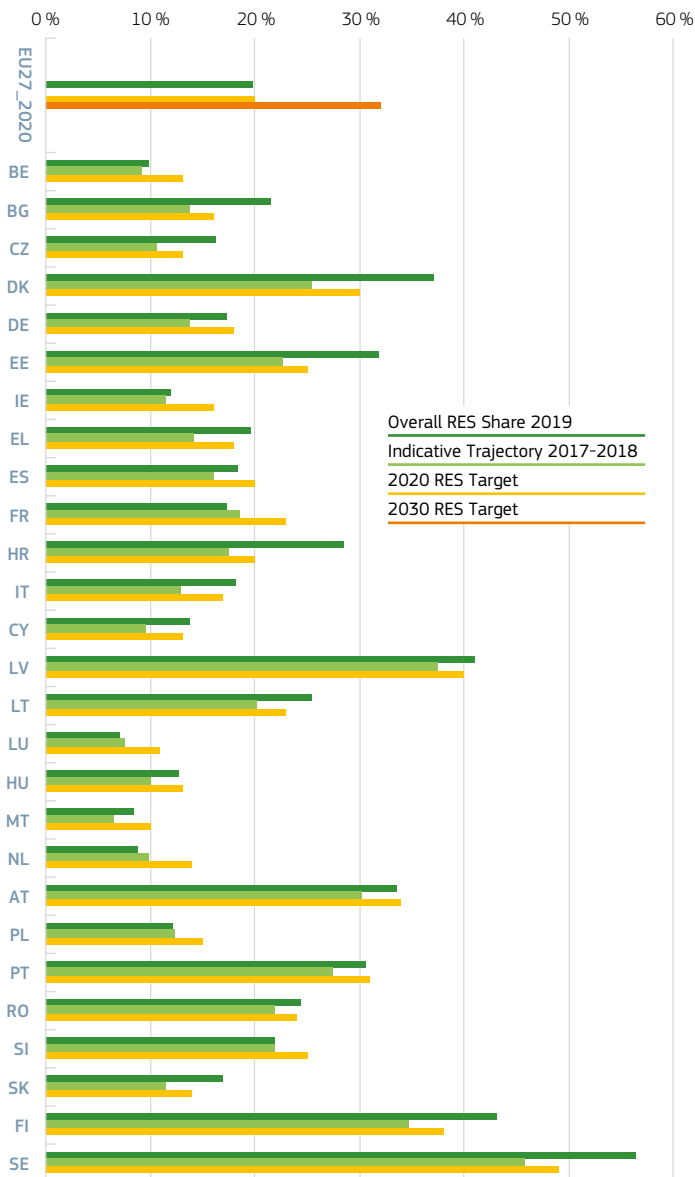
* In % of the Gross Final Energy Consumption.

Source: Eurostat-RES SHARES, March 2021

Methodology and Notes: [See Appendices](#)

1.3.1 Renewable Energy Targets*

OVERALL RENEWABLE ENERGY SHARE 2019 & TARGETS (%)



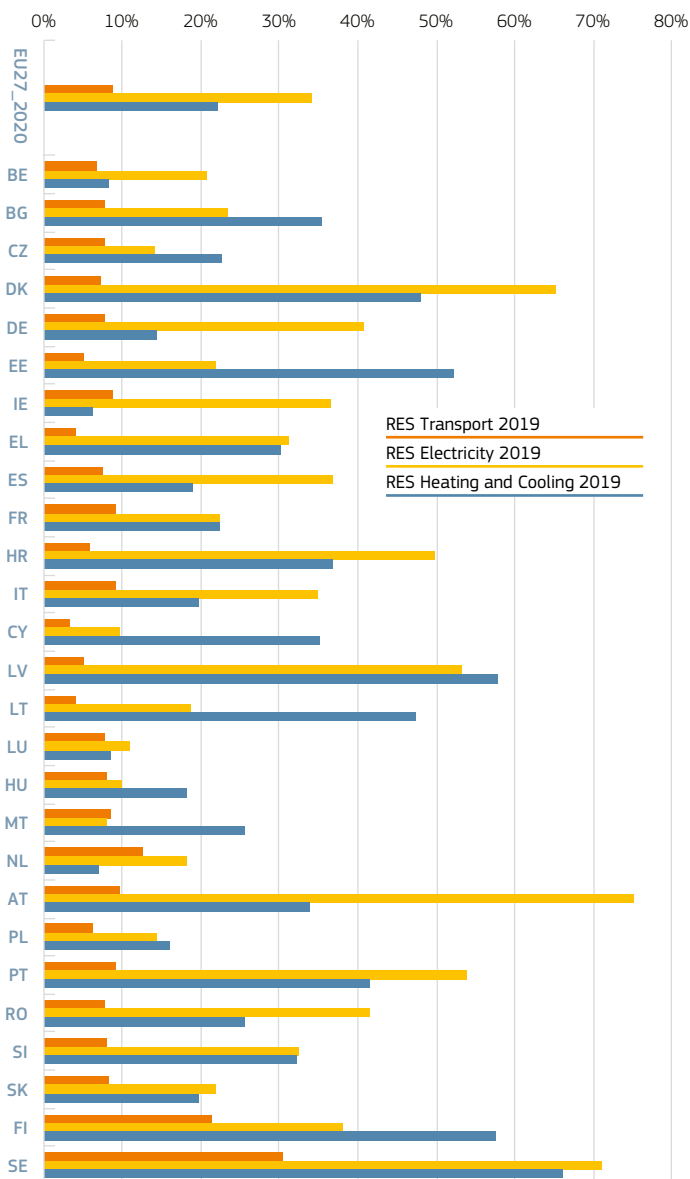
* In Gross Final Energy Consumption.

Source: Eurostat-RES SHARES, March 2021

Methodology and Notes: [See Appendices](#)

1.3.1 Renewable Energy Shares*

RES SHARES IN HEATING AND COOLING, ELECTRICITY, AND TRANSPORT – 2019 (%)



* In Gross Final Energy Consumption.

Source: Eurostat-RES SHARES, March 2021

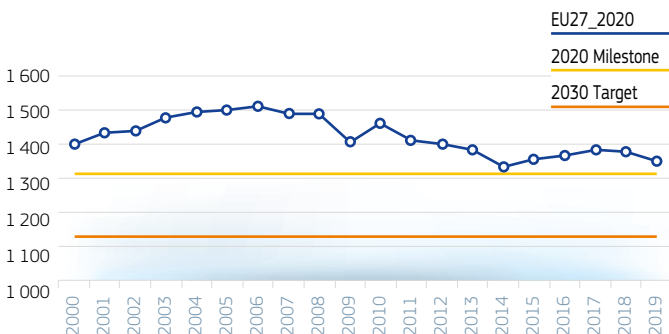
Methodology and Notes: [See Appendices](#)

1.3.2 Energy efficiency targets

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

	2005	2010	2015	2018	2019	2020 MILESTONE & TARGET	2030 TARGET
EU27_2020	1497.5	1458.1	1353.5	1375.7	1350.0	1312*	1128
BE	51.6	54.2	46.0	46.9	49.1		
BG	19.2	17.4	18.0	18.4	18.2		
CZ	42.5	42.5	39.4	40.5	39.8		
DK	19.4	20.0	16.9	17.4	16.8		
DE	321.6	315.2	295.9	292.1	282.7		
EE	5.0	5.6	5.3	6.1	4.7		
IE	14.9	14.7	14.0	14.7	14.7		
EL	30.3	27.2	23.4	22.6	22.3		
ES	136.0	122.9	118.0	124.6	120.8		
FR	260.9	254.4	244.3	238.9	235.3		
HR	9.1	8.9	8.0	8.2	8.2		
IT	180.8	167.3	149.1	147.2	145.9		
CY	2.5	2.7	2.3	2.5	2.5		
LV	4.5	4.6	4.3	4.7	4.6		
LT	8.0	6.2	5.8	6.4	6.3		
LU	4.8	4.6	4.1	4.5	4.5		
HU	26.3	24.6	23.3	24.5	24.6		
MT	0.9	0.9	0.8	0.8	0.9		
NL	70.1	71.7	63.9	64.2	63.5		
AT	32.7	32.9	31.7	31.8	32.2		
PL	88.0	96.6	90.1	101.0	98.1		
PT	24.9	22.7	21.6	22.7	22.1		
RO	36.1	32.9	30.7	32.6	32.0		
SI	7.2	7.0	6.3	6.7	6.5		
SK	17.4	16.7	15.2	15.8	16.0		
FI	33.6	35.4	31.2	32.7	32.1		
SE	49.0	48.3	43.8	47.3	45.8		

PRIMARY ENERGY CONSUMPTION – 2020-2030 (Mtoe)



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

Source: Eurostat, April 2021

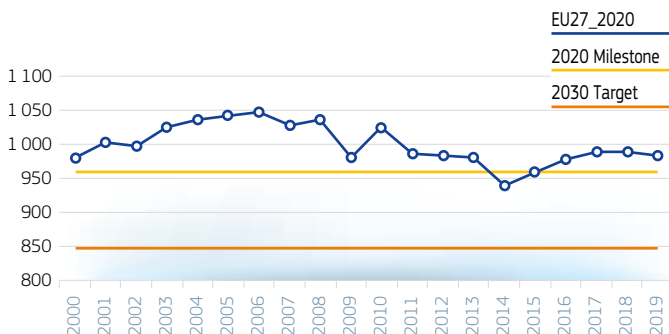
Methodology and Notes: [See Appendices](#)

1.3.2 Energy efficiency targets

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

	2005	2010	2015	2018	2019	2020 MILESTONE & TARGET	2030 TARGET
EU27_2020	1040.7	1023.8	958.5	989.6	983.5	959*	846
BE	36.6	37.9	35.9	36.4	35.8		
BG	10.1	8.8	9.5	9.9	9.8		
CZ	26.1	25.3	24.2	25.3	25.3		
DK	15.5	15.5	14.2	14.6	14.4		
DE	219.7	223.0	212.7	215.4	214.5		
EE	2.9	2.9	2.8	3.0	2.9		
IE	12.6	11.9	11.3	12.4	12.4		
EL	21.0	19.1	16.6	15.9	16.2		
ES	98.1	89.4	80.6	86.9	86.3		
FR	160.1	154.0	148.4	146.8	145.4		
HR	7.2	7.2	6.6	6.9	6.9		
IT	137.2	128.5	116.2	116.3	115.4		
CY	1.8	1.9	1.7	1.9	1.9		
LV	4.0	4.1	3.8	4.2	4.1		
LT	4.7	4.8	4.9	5.6	5.6		
LU	4.5	4.3	4.0	4.3	4.4		
HU	18.7	17.5	17.4	18.5	18.6		
MT	0.5	0.5	0.6	0.7	0.7		
NL	54.1	55.3	48.8	50.7	49.9		
AT	27.9	28.0	27.5	27.8	28.3		
PL	58.5	66.3	62.3	71.8	71.0		
PT	19.0	18.1	16.0	16.9	17.1		
RO	24.6	22.5	21.8	23.6	23.9		
SI	5.1	5.1	4.7	5.0	4.8		
SK	11.6	11.5	10.1	11.1	11.2		
FI	25.2	26.2	24.2	25.8	25.3		
SE	33.2	34.0	31.8	31.9	31.5		

FINAL ENERGY CONSUMPTION – 2020-2030 (Mtoe)



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

Source: Eurostat, April 2021

Methodology and Notes: [See Appendices](#)

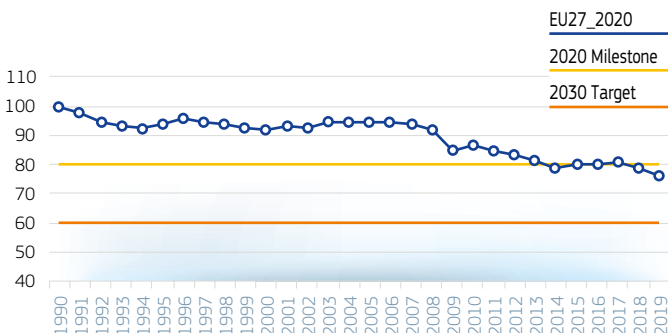
1.3.3 Greenhouse gas (GHG) Emissions Milestones and Targets

GHG EMISSIONS MILESTONES & TARGETS

(index 100=1990)

	2000	2005	2010	2018	2019	2020 GHG MILESTONE & TARGET	2030 GHG TARGET
EU27_2020	92.1	94.2	86.8	79.0	76.0	80*	60
BE	103.2	100.2	92.6	82.7	81.9		
BG	57.7	62.8	59.9	57.7	56.3		
CZ	75.7	75.1	71.0	65.4	62.5		
DK	101.2	95.5	90.8	70.5	65.2		
DE	84.2	80.6	76.7	70.3	66.6		
EE	42.7	47.1	51.8	49.6	36.2		
IE	126.7	131.2	115.8	118.7	113.8		
EL	122.0	131.4	114.5	90.9	84.8		
ES	135.0	153.9	125.7	119.3	113.2		
FR	101.7	102.5	94.8	83.6	82.2		
HR	80.8	94.0	88.0	75.6	75.9		
IT	107.7	114.3	100.4	84.2	82.4		
CY	145.2	159.6	163.3	156.5	156.9		
LV	38.9	42.6	46.7	44.9	44.5		
LT	40.5	47.4	43.3	42.6	43.0		
LU	81.0	109.0	102.7	94.6	95.7		
HU	79.4	81.4	70.1	68.8	68.5		
MT	112.4	116.5	117.2	90.1	96.4		
NL	101.3	99.5	98.8	88.4	85.6		
AT	103.2	118.7	108.9	102.4	104.4		
PL	83.4	85.2	87.1	87.1	82.7		
PT	138.8	146.0	118.5	118.2	112.6		
RO	53.2	56.0	44.5	44.4	42.8		
SI	100.1	110.0	105.7	94.6	92.0		
SK	66.3	68.8	61.9	57.7	54.6		
FI	98.7	98.6	107.1	81.3	77.0		
SE	96.6	94.5	91.9	75.8	73.8		

GHG EMISSIONS – 1990-2019 (index 100=1990)

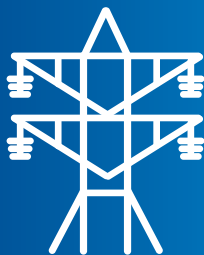


* Milestone for EU27_2020, based on the Target for EU28.

Source: EEA, June 2021, Eurostat 2020

Methodology and Notes: [See Appendices](#)

2 Energy in the EU



2 Energy in the EU

Summary

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2.1 Energy Supply

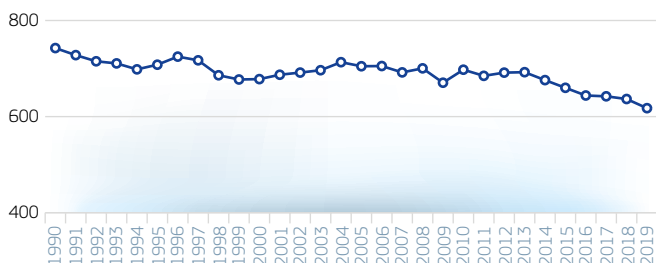
2.1.1 Production*

ALL FUELS

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	678.0	704.8	697.6	659.9	636.6	617.5
Index 2000	100 %	104 %	103 %	97 %	94 %	91 %
BE	13.61	13.83	15.93	10.87	11.88	16.01
BG	9.86	10.64	10.47	12.07	12.18	11.92
CZ	30.81	33.23	31.98	28.69	27.48	26.69
DK	27.83	31.35	23.41	16.24	13.88	12.51
DE	135.47	138.13	132.11	121.00	113.98	105.89
EE	3.18	3.87	4.93	5.59	6.60	4.91
IE	2.16	1.70	1.83	1.96	5.04	4.13
EL	10.04	10.38	9.49	8.55	7.53	6.37
ES	31.32	30.01	34.42	34.01	34.64	34.98
FR	129.73	136.29	136.98	140.90	137.49	134.01
HR	4.26	4.76	5.17	4.41	4.20	3.90
IT	28.35	30.28	32.94	36.10	37.34	36.91
CY	0.04	0.05	0.09	0.14	0.20	0.21
LV	1.41	1.87	1.98	2.35	2.87	2.83
LT	3.50	4.15	1.57	1.87	2.06	2.05
LU	0.06	0.11	0.12	0.15	0.21	0.23
HU	11.61	10.91	11.71	11.10	10.87	10.79
MT	0.00	0.00	0.00	0.02	0.03	0.04
NL	58.75	62.71	71.45	48.48	36.91	33.40
AT	9.82	9.89	12.12	12.23	12.02	12.36
PL	79.40	78.45	67.21	68.13	61.87	59.67
PT	3.85	3.61	5.80	5.91	6.50	6.56
RO	28.53	27.91	27.37	26.37	25.06	24.53
SI	3.20	3.73	3.69	3.32	3.41	3.38
SK	6.28	6.44	6.01	6.39	6.00	6.94
FI	14.92	16.72	17.10	17.22	19.71	19.28
SE	30.01	33.81	31.76	35.82	36.60	37.02

PRODUCTION – ALL FUELS – 1990-2019 (Mtoe)

EU27_2020



* Primary production, recycled and recovered products.

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.1.1 Production*

BY FUEL

	2019						
	Nuclear	Solid fossil fuels	Renewables and biofuels	Natural gas	Oil and petroleum products	Wastes, Non-Renewable	Peat, oil shale and oil sands
Mtoe							
EU27_2020	196.9	100.6	225.0	52.3	23.6	13.4	4.6
Share (%)	31.9%	16.3%	36.4%	8.5%	3.8%	2.2%	0.7%
BE	11.34	0.03	3.63	0.00	0.03	0.66	0.00
BG	4.30	4.88	2.55	0.03	0.02	0.07	0.01
CZ	7.55	13.43	4.97	0.17	0.18	0.36	0.00
DK	0.00	0.00	4.23	2.76	5.15	0.36	0.00
DE	19.33	28.42	45.84	4.37	3.68	4.25	0.00
EE	0.00	0.00	1.87	0.00	0.00	0.04	3.01
IE	0.00	0.00	1.46	2.14	0.00	0.15	0.39
EL	0.00	3.09	3.06	0.01	0.16	0.04	0.00
ES	15.22	0.00	19.29	0.12	0.04	0.31	0.00
FR	103.99	0.00	27.30	0.01	0.98	1.74	0.00
HR	0.00	0.00	2.28	0.85	0.74	0.03	0.00
IT	0.00	0.00	27.09	3.93	4.71	1.18	0.00
CY	0.00	0.00	0.20	0.00	0.00	0.01	0.00
LV	0.00	0.00	2.81	0.00	0.01	0.01	0.00
LT	0.00	0.00	1.65	0.00	0.05	0.03	0.01
LU	0.00	0.00	0.19	0.00	0.00	0.04	0.00
HU	4.11	0.99	3.05	1.33	1.16	0.14	0.00
MT	0.00	0.00	0.04	0.00	0.00	0.00	0.00
NL	0.91	0.00	6.22	23.94	1.43	0.68	0.00
AT	0.00	0.00	10.25	0.77	0.66	0.68	0.00
PL	0.00	44.62	9.47	3.43	1.07	1.06	0.00
PT	0.00	0.00	6.40	0.00	0.00	0.16	0.00
RO	2.85	3.93	5.81	8.27	3.52	0.15	0.00
SI	1.38	0.89	1.05	0.00	0.00	0.06	0.00
SK	4.05	0.36	2.23	0.10	0.01	0.20	0.00
FI	5.68	0.00	12.10	0.00	0.01	0.30	1.05
SE	16.24	0.00	19.94	0.00	0.00	0.73	0.11

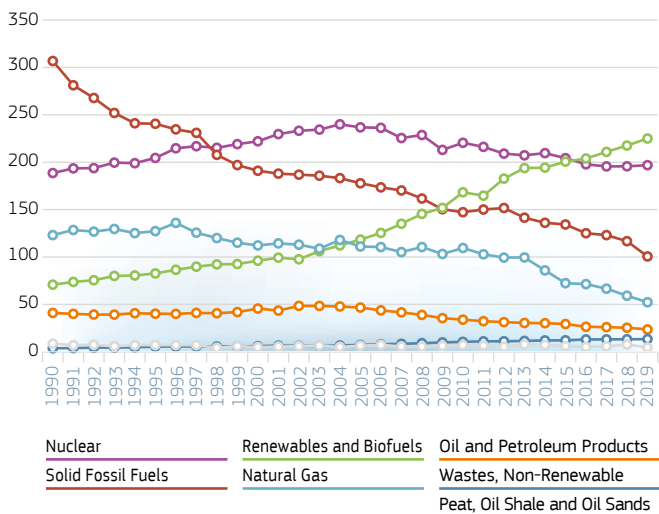
* Primary production. recycled and recovered products.

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

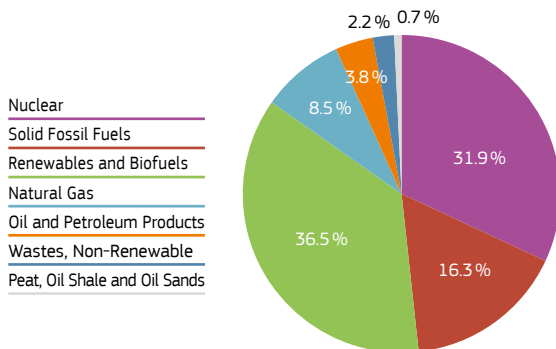
2.1.1 Production*

BY FUEL – EU27_2020 – 1990-2019 (Mtoe)



PRODUCTION – BY FUEL – EU27_2020 – 1990-2019 (% OF TOTAL)

Total = 617.5 Mtoe



* Primary production , recycled and recovered products.

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

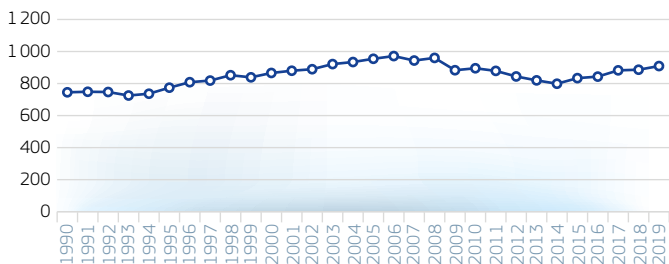
2.1.2 Net Imports

ALL FUELS

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	865.95	954.55	895.36	833.71	886.34	909.11
Index 2000	100%	110%	103%	96%	102%	105%
BE	50.63	53.42	53.58	49.91	53.05	49.82
BG	8.68	9.56	7.23	6.84	6.93	7.21
CZ	9.37	12.68	11.54	13.49	16.09	17.58
DK	-7.47	-10.42	-3.37	2.39	4.25	7.00
DE	204.85	211.96	204.59	199.14	200.95	207.54
EE	1.63	1.51	0.90	0.57	0.07	0.24
IE	12.41	13.96	13.30	12.75	10.23	10.33
EL	21.75	23.14	21.30	18.38	18.39	19.32
ES	99.86	124.25	106.68	94.85	101.04	100.56
FR	132.66	144.63	132.34	120.25	120.10	120.47
HR	4.10	5.17	4.43	4.15	4.58	4.96
IT	152.44	159.77	148.48	121.42	121.92	122.49
CY	2.58	2.86	2.96	2.47	2.68	2.70
LV	2.36	3.10	2.22	2.37	2.14	2.17
LT	4.30	5.05	5.71	5.48	5.94	6.01
LU	3.64	4.68	4.51	4.01	4.29	4.32
HU	13.87	17.75	15.14	13.58	15.52	18.62
MT	1.47	1.59	2.36	2.23	2.98	3.08
NL	34.99	37.53	28.28	43.05	52.79	56.88
AT	19.17	24.69	21.88	20.37	21.85	24.90
PL	9.60	16.49	32.14	28.67	47.96	48.81
PT	22.21	24.81	18.69	18.49	18.78	18.36
RO	8.04	10.63	7.49	5.33	8.16	10.07
SI	3.40	3.85	3.58	3.24	3.62	3.60
SK	11.54	12.34	11.41	9.78	10.85	11.88
FI	18.55	19.25	18.08	15.80	15.80	14.55
SE	19.29	20.31	19.91	14.69	15.36	15.64

NET IMPORTS – ALL FUELS – 1990-2019 (Mtoe)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

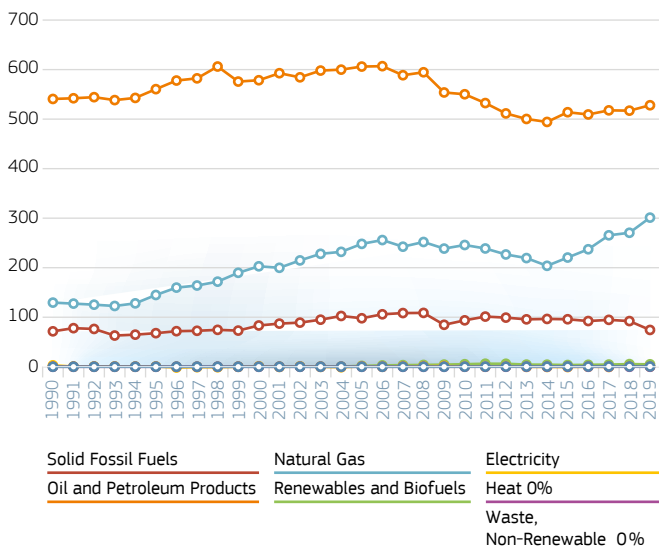
2.1.2 Net Imports

BY FUEL

Mtoe	2019					
	Net Imports	Solid fossil fuels	Oil and petroleum products	Natural gas	Renewables and biofuels	Electricity
EU27_2020	909.1	74.3	528.0	301.1	4.9	0.3
Share (%)	100 %	8.2 %	58.1 %	33.1 %	0.5 %	0.0 %
BE	49.82	3.15	30.61	15.48	0.74	-0.16
BG	7.21	0.38	4.95	2.45	-0.07	-0.50
CZ	17.58	1.27	9.62	7.87	-0.06	-1.13
DK	7.00	1.34	3.44	-0.15	1.80	0.50
DE	207.54	26.68	108.38	75.67	-0.37	-2.81
EE	0.24	0.02	0.28	0.40	-0.64	0.19
IE	10.33	0.21	7.48	2.42	0.17	0.06
EL	19.32	0.20	13.71	4.44	0.11	0.86
ES	100.56	4.54	64.47	31.40	-0.44	0.59
FR	120.47	7.31	77.73	39.22	1.18	-4.96
HR	4.96	0.45	2.52	1.60	-0.14	0.53
IT	122.49	6.39	52.44	57.94	2.45	3.28
CY	2.70	0.02	2.61	0.00	0.05	0.00
LV	2.17	0.04	1.84	1.10	-0.94	0.10
LT	6.01	0.18	3.23	1.86	-0.09	0.80
LU	4.32	0.04	2.96	0.68	0.13	0.51
HU	18.62	0.84	7.09	9.75	-0.21	1.08
MT	3.08	0.00	2.69	0.32	0.01	0.05
NL	56.88	6.56	42.53	8.33	-0.75	0.07
AT	24.90	2.72	12.39	9.43	0.09	0.27
PL	48.81	2.64	30.73	14.06	0.46	0.91
PT	18.36	1.52	11.56	5.30	-0.33	0.29
RO	10.07	1.08	6.49	2.15	0.21	0.13
SI	3.60	0.21	2.60	0.73	0.09	-0.03
SK	11.88	2.52	3.64	5.58	-0.03	0.15
FI	14.55	2.11	8.44	2.14	0.13	1.72
SE	15.64	1.92	13.54	0.96	1.36	-2.25

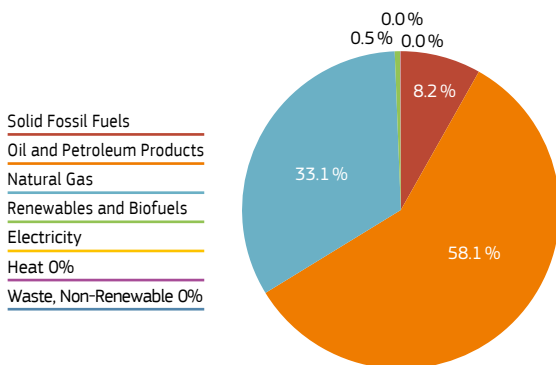
2.1.2 Net Imports

BY FUEL – EU27_2020 – 1990-2018 (Mtoe)



NET IMPORTS – BY FUEL – EU27_2020 – 2019 (% TOTAL)

Total = 909.1 Mtoe



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

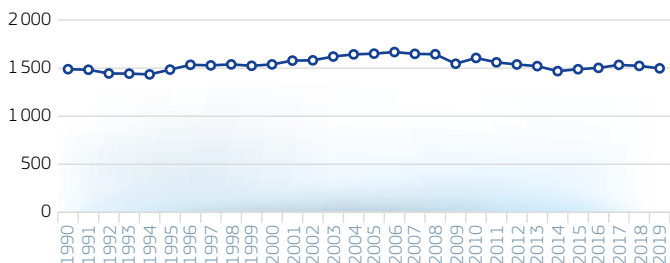
2.1.3 Gross Available Energy

ALL FUELS

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	1 538.67	1 650.69	1 606.15	1 488.63	1 523.11	1 497.60
Index 2000	100 %	107 %	104 %	97 %	99 %	97 %
BE	64.78	66.79	69.09	59.87	64.44	64.98
BG	18.70	20.19	18.01	18.77	19.09	18.92
CZ	41.29	45.53	45.47	42.05	43.64	43.00
DK	20.79	20.59	21.11	18.14	18.52	18.05
DE	344.63	348.97	341.02	320.52	316.74	306.97
EE	4.84	5.38	5.87	5.73	6.49	5.01
IE	14.52	15.57	15.20	14.36	15.11	15.10
EL	31.50	33.93	31.06	25.87	26.02	26.07
ES	130.04	152.39	138.41	130.30	137.56	134.16
FR	258.87	279.77	271.99	261.80	256.61	253.12
HR	8.46	9.84	9.48	8.51	8.70	8.82
IT	176.19	191.69	179.82	157.63	159.71	158.09
CY	2.61	2.84	2.95	2.54	2.90	2.91
LV	3.87	4.85	4.88	4.63	4.83	4.94
LT	7.44	9.12	7.22	7.26	8.03	8.00
LU	3.66	4.80	4.65	4.18	4.51	4.54
HU	25.23	28.51	26.59	25.20	26.70	26.71
MT	1.47	1.59	2.39	2.29	3.05	3.17
NL	91.43	99.32	100.01	88.39	88.64	87.88
AT	29.24	34.40	34.85	33.74	34.02	34.71
PL	89.50	92.91	101.82	96.06	107.15	104.24
PT	26.05	28.02	24.84	24.23	24.83	24.87
RO	36.76	38.69	35.02	31.92	33.61	33.14
SI	6.56	7.58	7.27	6.56	7.07	6.91
SK	17.73	18.70	17.71	16.26	17.05	17.02
FI	33.44	35.35	37.00	32.95	35.21	34.57
SE	49.07	53.35	52.42	48.87	52.87	51.72

GROSS AVAILABLE ENERGY – ALL FUELS – 1990-2019 (Mtoe)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

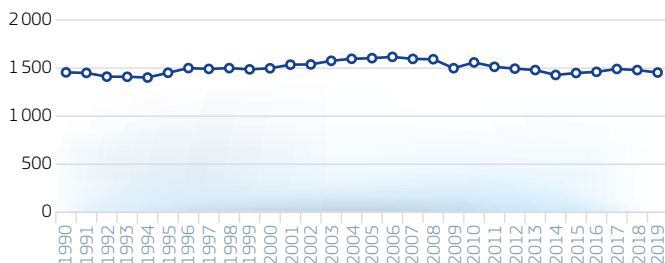
2.1.4 Gross Inland Consumption

ALL FUELS

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	1 498.29	1 603.49	1 559.45	1 449.05	1 479.71	1 454.02
Index 2000	100 %	107 %	104 %	97 %	99 %	97 %
BE	59.44	59.16	61.49	54.05	55.16	56.78
BG	18.63	20.08	17.92	18.68	19.00	18.85
CZ	41.29	45.53	45.47	42.05	43.64	43.00
DK	19.50	19.82	20.41	17.37	17.92	17.31
DE	342.43	346.48	338.25	318.09	315.05	305.61
EE	4.73	5.26	5.65	5.44	6.18	4.82
IE	14.37	15.47	15.06	14.20	14.95	14.96
EL	27.90	31.06	28.35	24.09	23.84	23.55
ES	124.02	144.48	129.99	122.81	130.56	126.97
FR	256.05	277.21	269.70	260.08	254.67	251.42
HR	8.44	9.82	9.47	8.50	8.68	8.79
IT	174.54	189.45	176.84	155.73	156.99	155.43
CY	2.42	2.55	2.76	2.30	2.63	2.63
LV	3.86	4.59	4.63	4.38	4.79	4.65
LT	7.35	8.98	7.08	7.18	7.83	7.80
LU	3.66	4.80	4.65	4.18	4.51	4.54
HU	25.23	28.51	26.59	25.20	26.70	26.71
MT	0.81	0.94	0.94	0.76	0.85	0.90
NL	78.27	83.70	86.15	76.44	77.43	75.93
AT	29.22	34.38	34.83	33.72	34.01	34.70
PL	89.22	92.58	101.60	95.87	106.88	103.97
PT	25.38	27.44	24.38	23.59	24.03	23.91
RO	36.76	38.69	35.01	31.87	33.59	33.11
SI	6.56	7.56	7.25	6.50	6.84	6.72
SK	17.73	18.70	17.71	16.26	17.05	17.02
FI	32.76	34.84	36.79	32.65	34.89	34.23
SE	47.71	51.41	50.46	47.04	51.06	49.70

GROSS INLAND CONSUMPTION – ALL FUELS –
1990-2019 (Mtoe)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.1.4 Gross Inland Consumption

BY FUEL

	2019							
	Oil and petroleum products	Natural gas	Solid fossil fuels	Renewables and biofuels	Nuclear	Waste, non-renewable	Electricity	Others*
Mtoe								
EU27_2020	502.2	335.7	169.0	229.7	196.9	13.9	0.3	5.3
Share (%)	34.5%	23.1%	11.6%	15.8%	13.5%	1.0%	0.0%	0.4%
BE	22.0	15.2	3.1	4.4	11.3	0.7	-0.2	0.0
BG	4.8	2.4	5.2	2.5	4.3	0.1	-0.5	0.0
CZ	9.9	7.2	14.2	4.9	7.5	0.4	-1.1	0.0
DK	6.9	2.6	0.9	6.0	0.0	0.4	0.5	0.0
DE	110.0	75.6	53.8	45.5	19.3	4.2	-2.8	0.0
EE	0.1	0.4	0.0	1.2	0.0	0.0	0.2	3.0
IE	7.4	4.6	0.4	1.6	0.0	0.1	0.1	0.8
EL	11.8	4.5	3.2	3.2	0.0	0.0	0.9	0.0
ES	56.2	30.9	4.9	18.9	15.2	0.3	0.6	0.0
FR	77.3	37.5	7.3	28.5	104.0	1.7	-5.0	0.0
HR	3.3	2.4	0.4	2.1	0.0	0.0	0.5	0.0
IT	54.0	60.9	6.5	29.5	0.0	1.2	3.3	0.0
CY	2.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0
LV	1.5	1.1	0.0	1.8	0.0	0.0	0.1	0.0
LT	3.0	1.9	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	8.2	8.5	1.8	2.8	4.1	0.2	1.1	0.0
MT	0.5	0.3	0.0	0.1	0.0	0.0	0.1	0.0
NL	30.0	32.0	6.4	5.4	0.9	0.8	0.1	0.0
AT	12.9	7.7	2.8	10.3	0.0	0.7	0.3	0.0
PL	31.3	16.9	43.8	9.9	0.0	1.1	0.9	0.0
PT	10.8	5.3	1.2	6.1	0.0	0.2	0.3	0.0
RO	9.8	9.2	4.9	6.0	2.8	0.2	0.1	0.0
SI	2.4	0.7	1.1	1.1	1.4	0.1	0.0	0.0
SK	3.6	4.1	2.7	2.2	4.0	0.2	0.1	0.0
FI	8.5	2.1	2.1	12.2	5.7	0.3	1.7	1.4
SE	10.7	0.9	1.9	21.3	16.2	0.8	-2.2	0.1

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

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

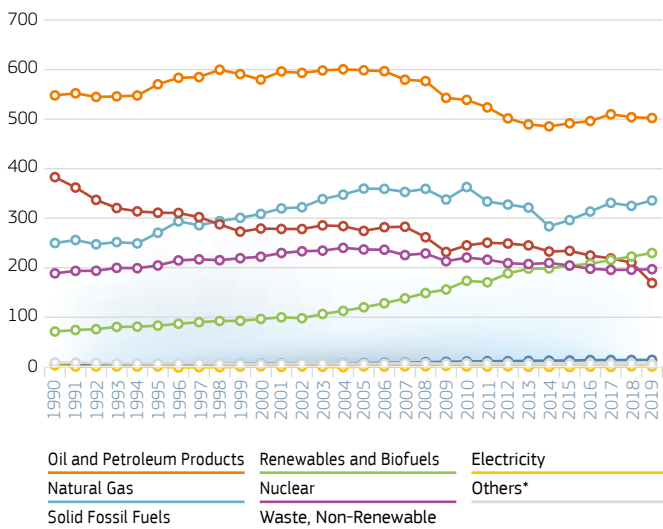
2.1.4 Gross Inland Consumption

RENEWABLES AND BIOFUELS

Mtoe	2019								
	Renewables and biofuels	Hydro	Wind	Solar photovoltaic	Solar thermal	Tide, Wave and Ocean	Biofuels and renewable waste	Geothermal	Ambient heat (heat pumps)
EU27_2020	229.7	27.5	31.6	10.3	4.7	0.0	136.2	6.9	12.4
Share (%)	100.0%	12.0%	13.7%	4.5%	2.0%	0.0%	59.3%	3.0%	5.4%
BE	4.37	0.03	0.84	0.37	0.03	0.00	3.01	0.00	0.11
BG	2.47	0.25	0.11	0.12	0.03	0.00	1.82	0.04	0.11
CZ	4.91	0.17	0.06	0.20	0.02	0.00	4.26	0.00	0.20
DK	6.03	0.00	1.39	0.08	0.07	0.00	4.20	0.00	0.28
DE	45.46	1.70	10.82	3.99	0.73	0.00	26.63	0.33	1.26
EE	1.18	0.00	0.06	0.01	0.00	0.00	1.11	0.00	0.00
IE	1.62	0.08	0.86	0.00	0.01	0.00	0.62	0.00	0.05
EL	3.17	0.34	0.62	0.38	0.29	0.00	1.18	0.01	0.34
ES	18.89	2.12	4.78	0.81	2.57	0.00	7.72	0.02	0.86
FR	28.47	4.89	2.99	1.05	0.19	0.04	16.12	0.46	2.73
HR	2.14	0.50	0.13	0.01	0.02	0.00	1.43	0.05	0.01
IT	29.51	3.98	1.74	2.04	0.23	0.00	13.63	5.40	2.50
CY	0.25	0.00	0.02	0.02	0.07	0.00	0.08	0.00	0.05
LV	1.82	0.18	0.01	0.00	0.00	0.00	1.63	0.00	0.00
LT	1.59	0.03	0.13	0.01	0.00	0.00	1.40	0.00	0.03
LU	0.32	0.01	0.02	0.01	0.00	0.00	0.27	0.00	0.00
HU	2.83	0.02	0.06	0.13	0.01	0.00	2.44	0.16	0.01
MT	0.05	0.00	0.00	0.02	0.01	0.00	0.01	0.00	0.01
NL	5.43	0.01	0.99	0.46	0.03	0.00	3.56	0.13	0.26
AT	10.33	3.48	0.64	0.15	0.18	0.00	5.49	0.03	0.37
PL	9.90	0.17	1.30	0.06	0.07	0.00	8.02	0.03	0.26
PT	6.06	0.76	1.18	0.12	0.10	0.00	3.04	0.20	0.68
RO	6.01	1.34	0.58	0.15	0.00	0.00	3.90	0.04	0.00
SI	1.14	0.39	0.00	0.03	0.01	0.00	0.66	0.01	0.04
SK	2.20	0.37	0.00	0.05	0.01	0.00	1.72	0.01	0.04
FI	12.22	1.07	0.52	0.01	0.00	0.00	10.02	0.00	0.60
SE	21.28	5.62	1.71	0.06	0.01	0.00	12.25	0.00	1.63

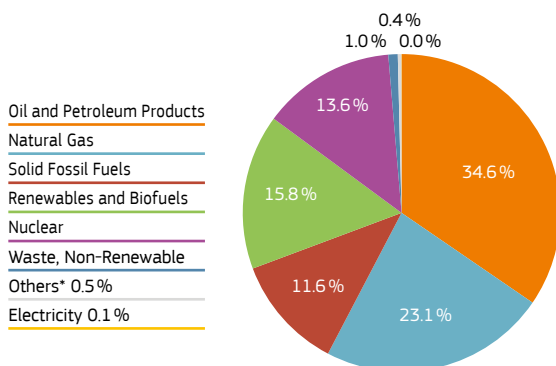
2.1.4 Gross Inland Consumption

BY FUEL – EU27_2020 – 1990-2019 (Mtoe)



GROSS INLAND CONSUMPTION – BY FUEL – EU27_2020 – 2019 (% TOTAL)

Total = 1454 Mtoe



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

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

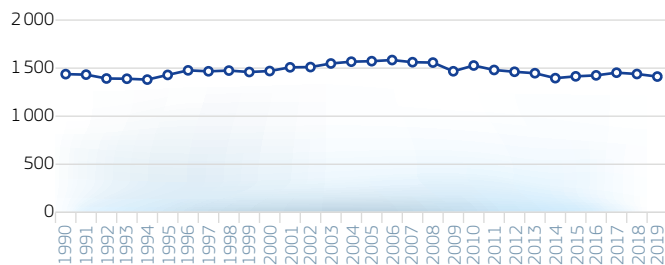
2.1.5 Total Energy Supply

ALL FUELS

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	1 469.72	1 572.34	1 527.33	1 414.60	1 438.81	1 412.35
Index 2000	100 %	107 %	104 %	96 %	98 %	96 %
BE	57.93	58.00	60.12	52.60	53.47	55.07
BG	18.55	19.89	17.75	18.50	18.75	18.60
CZ	41.13	45.22	45.15	41.76	43.23	42.58
DK	18.71	18.96	19.60	16.49	16.90	16.27
DE	335.81	339.03	330.30	310.08	305.22	295.86
EE	4.71	5.21	5.62	5.39	6.11	4.76
IE	13.77	14.65	14.32	13.36	13.85	13.85
EL	27.06	30.26	27.66	23.26	22.75	22.42
ES	121.24	141.30	126.87	118.85	125.79	122.08
FR	250.83	271.78	264.19	254.48	248.87	245.33
HR	8.38	9.73	9.37	8.39	8.49	8.59
IT	171.71	186.45	173.68	152.56	153.15	151.46
CY	2.14	2.24	2.48	2.05	2.31	2.32
LV	3.84	4.53	4.51	4.27	4.64	4.49
LT	7.33	8.94	7.03	7.10	7.71	7.68
LU	3.34	4.37	4.21	3.72	3.89	3.94
HU	24.99	28.25	26.36	25.03	26.43	26.43
MT	0.68	0.85	0.84	0.64	0.69	0.74
NL	74.97	80.06	82.74	72.64	73.37	71.96
AT	28.67	33.73	34.16	33.02	33.18	33.74
PL	88.94	92.25	101.10	95.22	105.87	102.89
PT	24.71	26.68	23.51	22.54	22.66	22.46
RO	36.63	38.56	34.84	31.63	33.45	32.95
SI	6.54	7.54	7.23	6.47	6.81	6.69
SK	17.70	18.66	17.67	16.22	17.00	16.98
FI	32.42	34.42	36.25	32.01	34.11	33.40
SE	46.99	50.76	49.75	46.28	50.12	48.81

TOTAL ENERGY SUPPLY – ALL FUELS –
1990-2019 (Mtoe)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.2 Energy Imports

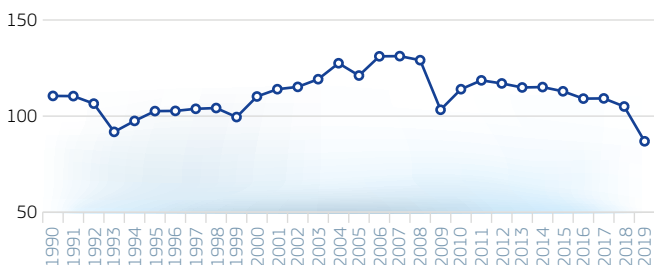
2.2.1 Imports – Solid Fossil Fuels

TOTAL

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	110.2	121.1	114.0	112.9	105.0	86.9
Index 2000	100 %	110 %	103 %	103 %	95 %	79 %
BE	8.43	6.01	4.39	3.32	3.29	3.23
BG	2.38	2.56	1.75	0.76	0.59	0.40
CZ	1.04	1.34	2.36	2.84	3.05	2.95
DK	3.86	3.56	2.68	1.60	1.61	1.37
DE	22.22	26.58	32.59	37.48	30.87	28.18
EE	0.07	0.04	0.05	0.00	0.02	0.03
IE	1.70	1.91	0.97	1.51	0.92	0.21
EL	0.81	0.40	0.40	0.16	0.23	0.20
ES	13.35	14.83	7.85	10.95	9.53	5.53
FR	13.38	13.98	12.25	9.21	9.27	7.31
HR	0.48	0.62	0.70	0.62	0.33	0.45
IT	13.23	16.53	14.00	12.58	8.87	6.59
CY	0.03	0.04	0.01	0.00	0.01	0.02
LV	0.06	0.08	0.11	0.04	0.05	0.05
LT	0.08	0.17	0.19	0.15	0.17	0.18
LU	0.11	0.08	0.07	0.05	0.04	0.04
HU	1.21	1.46	1.41	1.11	1.26	1.07
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	8.13	8.46	7.76	10.80	8.33	6.66
AT	3.07	4.05	3.37	2.85	2.71	2.75
PL	1.02	2.15	8.27	5.06	12.12	10.07
PT	3.97	3.23	1.63	3.21	2.67	1.52
RO	1.92	2.93	1.22	1.05	0.89	1.08
SI	0.25	0.33	0.28	0.20	0.21	0.21
SK	3.47	3.90	3.22	2.82	3.11	2.60
FI	3.56	3.36	3.99	2.59	2.85	2.26
SE	2.36	2.48	2.46	1.98	2.02	1.95

IMPORTS – SOLID FOSSIL FUELS – TOTAL – 1990-2019 (Mtoe)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

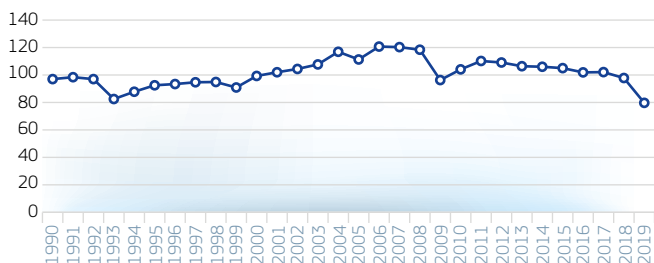
2.2.1 Imports – Solid Fossil Fuels

HARD COAL

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	99.3	111.3	104.1	105.0	97.8	79.7
Index 2000	100%	112%	105%	106%	98%	80%
BE	7.46	5.70	4.09	2.78	2.69	2.61
BG	2.25	2.49	1.70	0.70	0.55	0.36
CZ	0.63	0.76	1.41	1.96	2.47	2.46
DK	3.82	3.54	2.67	1.59	1.60	1.36
DE	17.39	23.93	29.33	35.35	29.19	26.80
EE	0.06	0.04	0.05	0.00	0.02	0.03
IE	1.68	1.88	0.95	1.50	0.91	0.20
EL	0.81	0.40	0.40	0.16	0.23	0.20
ES	13.25	14.74	7.71	10.73	9.03	4.99
FR	12.33	12.85	11.30	8.79	8.80	6.82
HR	0.44	0.57	0.64	0.58	0.30	0.42
IT	12.87	15.94	13.81	11.92	8.43	6.19
CY	0.03	0.04	0.01	0.00	0.01	0.02
LV	0.05	0.07	0.11	0.04	0.05	0.05
LT	0.01	0.00	0.11	0.14	0.16	0.17
LU	0.10	0.07	0.06	0.04	0.04	0.04
HU	0.88	1.00	1.28	0.97	1.10	0.97
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	7.74	8.19	7.52	10.73	8.21	6.56
AT	2.32	3.00	2.45	2.11	2.10	2.06
PL	1.01	2.05	8.16	4.91	11.90	9.86
PT	3.97	3.22	1.63	3.20	2.66	1.52
RO	1.65	2.05	0.14	0.08	0.11	0.10
SI	0.01	0.03	0.02	0.01	0.01	0.01
SK	3.15	3.48	2.57	2.53	2.69	2.25
FI	3.21	3.01	3.68	2.28	2.63	2.03
SE	2.14	2.22	2.29	1.92	1.87	1.64

IMPORTS – SOLID FOSSIL FUELS – HARD COAL –
1990-2019 (Mtoe)

EU27_2020



2.2.1 Imports – Solid Fossil Fuels

RANKING

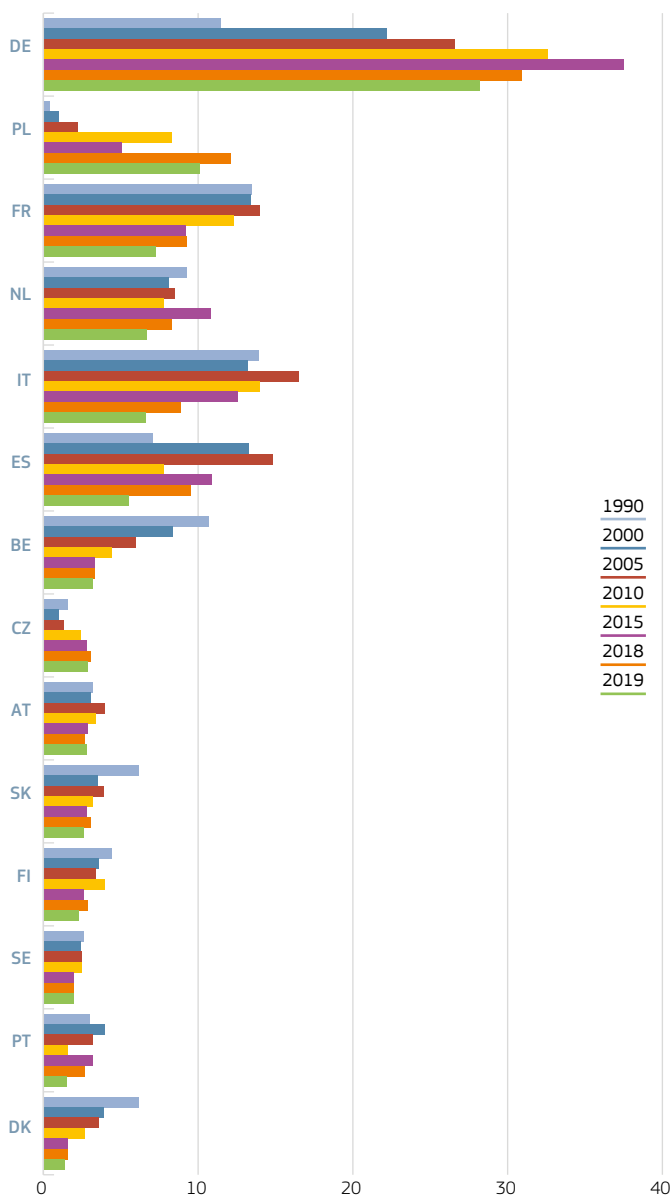
Mtoe and %	2000			2019		
Top 10 Ranking	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Solid Fossil Fuels						
1	DE	22.2	20.2 %	DE	28.2	32.4 %
2	FR	13.4	12.1 %	PL	10.1	11.6 %
3	ES	13.3	12.1 %	FR	7.3	8.4 %
4	IT	13.2	12.0 %	NL	6.7	7.7 %
5	BE	8.4	7.7 %	IT	6.6	7.6 %
6	NL	8.1	7.4 %	ES	5.5	6.4 %
7	PT	4.0	3.6 %	BE	3.2	3.7 %
8	DK	3.9	3.5 %	CZ	2.9	3.4 %
9	FI	3.6	3.2 %	AT	2.8	3.2 %
10	SK	3.5	3.1 %	SK	2.6	3.0 %
Top 5 Total		70.6	64.1 %		58.8	67.7 %
Total EU27_2020		110.2	100.0 %		86.9	100.0 %
Of which: Hard Coal						
1	DE	17.4	17.5 %	DE	26.8	33.6 %
2	ES	13.3	13.4 %	PL	9.9	12.4 %
3	IT	12.9	13.0 %	FR	6.8	8.6 %
4	FR	12.3	12.4 %	NL	6.6	8.2 %
5	NL	7.7	7.8 %	IT	6.2	7.8 %
6	BE	7.5	7.5 %	ES	5.0	6.3 %
7	PT	4.0	4.0 %	BE	2.6	3.3 %
8	DK	3.8	3.9 %	CZ	2.5	3.1 %
9	FI	3.2	3.2 %	SK	2.2	2.8 %
10	SK	3.1	3.2 %	AT	2.1	2.6 %
Top 5 Total		63.6	64.1 %		56.2	70.5 %
Total EU27_2020		99.3	100.0 %		79.7	100.0 %

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.2.1 Imports – Solid Fossil Fuels

BY MEMBER STATE – TOP 14 IMPORTERS
1990-2019 (Mtoe)

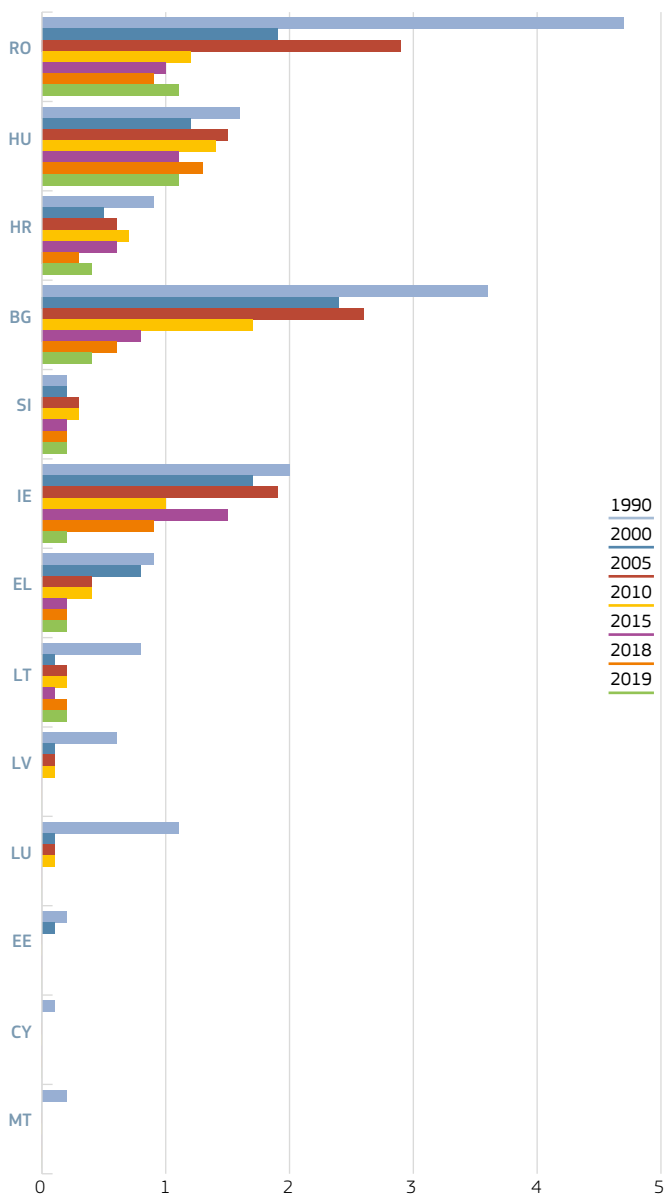


Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.2.1 Imports – Solid Fossil Fuels

BY MEMBER STATE – LEAST 13 IMPORTERS
1990-2019 (Mtoe)



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

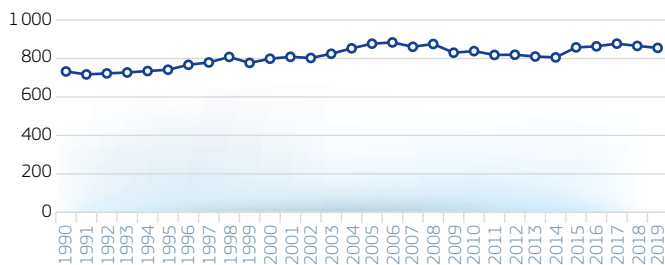
2.2.2 Imports – Oil and Petroleum Products

TOTAL

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	799.0	877.2	838.6	857.9	865.5	855.2
Index 2000	100%	110%	105%	107%	108%	107%
BE	52.91	58.44	56.76	59.85	65.13	63.09
BG	6.10	7.85	7.76	8.99	8.09	9.32
CZ	8.58	10.96	10.61	11.17	12.00	11.86
DK	9.93	8.79	9.52	13.99	10.93	12.36
DE	148.18	150.88	130.79	130.77	127.53	130.16
EE	0.92	1.15	1.15	1.68	2.04	1.83
IE	9.63	10.35	9.21	9.27	9.16	9.01
EL	23.43	26.08	26.61	30.93	33.70	32.25
ES	78.71	88.14	80.88	84.21	89.18	88.77
FR	112.87	123.35	106.30	103.16	97.19	95.23
HR	4.21	5.53	4.97	4.54	5.23	4.85
IT	109.73	108.25	96.89	80.73	81.51	80.59
CY	2.54	2.81	2.93	2.46	2.61	2.61
LV	1.35	2.29	1.94	2.76	2.49	2.33
LT	5.46	9.63	10.25	11.17	10.90	10.81
LU	2.39	3.16	2.86	2.62	2.91	2.96
HU	7.00	9.13	8.53	9.33	10.80	10.43
MT	1.47	1.59	2.38	2.67	2.95	3.07
NL	104.61	125.35	146.70	156.71	151.17	148.42
AT	12.45	15.47	13.96	14.03	14.83	15.22
PL	21.78	24.96	29.22	32.53	36.87	36.16
PT	17.62	19.52	15.40	18.10	16.86	16.46
RO	6.36	9.71	8.17	9.62	11.65	12.07
SI	2.69	2.85	3.29	4.09	4.81	4.95
SK	5.56	6.83	6.85	7.57	7.40	7.02
FI	15.65	16.04	16.30	16.53	17.97	18.10
SE	26.83	28.07	28.34	28.43	29.55	25.23

IMPORTS – OIL AND PETROLEUM PRODUCTS – TOTAL –
1990-2019 (Mtoe)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

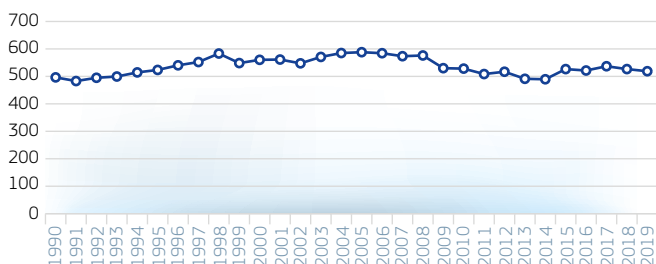
2.2.2 Imports – Oil and Petroleum Products

CRUDE OIL AND NGL

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	560.3	588.1	528.3	526.5	526.6	518.8
Index 2000	100 %	105 %	94 %	94 %	94 %	93 %
BE	34.16	31.99	33.48	32.44	33.25	34.64
BG	5.31	6.14	5.52	6.17	5.95	7.10
CZ	5.67	7.76	7.83	7.22	7.60	7.85
DK	3.81	2.79	2.79	4.28	4.84	5.17
DE	104.75	115.21	94.69	92.66	86.51	87.30
EE	0.00	0.00	0.00	0.00	0.00	0.00
IE	3.01	3.34	3.11	3.72	3.05	2.61
EL	19.22	18.55	19.97	21.91	24.14	22.65
ES	58.07	60.16	53.00	65.39	68.28	66.99
FR	85.45	86.00	65.48	59.20	54.21	49.58
HR	3.96	4.05	3.60	2.37	3.02	2.05
IT	83.64	89.30	78.60	62.46	62.05	63.14
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	9.76	9.67
LU	0.00	0.00	0.00	0.00	0.00	0.00
HU	5.79	6.59	5.84	6.35	6.67	6.10
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	61.06	62.48	61.05	60.29	61.78	63.79
AT	7.43	7.95	6.90	8.23	8.46	8.72
PL	18.27	18.18	23.03	26.89	27.25	27.02
PT	11.73	13.42	11.48	14.36	13.00	11.48
RO	4.81	8.69	5.82	6.59	8.26	8.66
SI	0.12	0.00	0.00	0.00	0.00	0.00
SK	5.28	5.37	5.48	5.92	5.45	5.16
FI	11.86	10.84	11.44	11.12	12.98	12.70
SE	20.83	20.24	20.00	20.25	20.11	16.47

IMPORTS – CRUDE OIL AND NGL – 1990-2019 (Mtoe)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

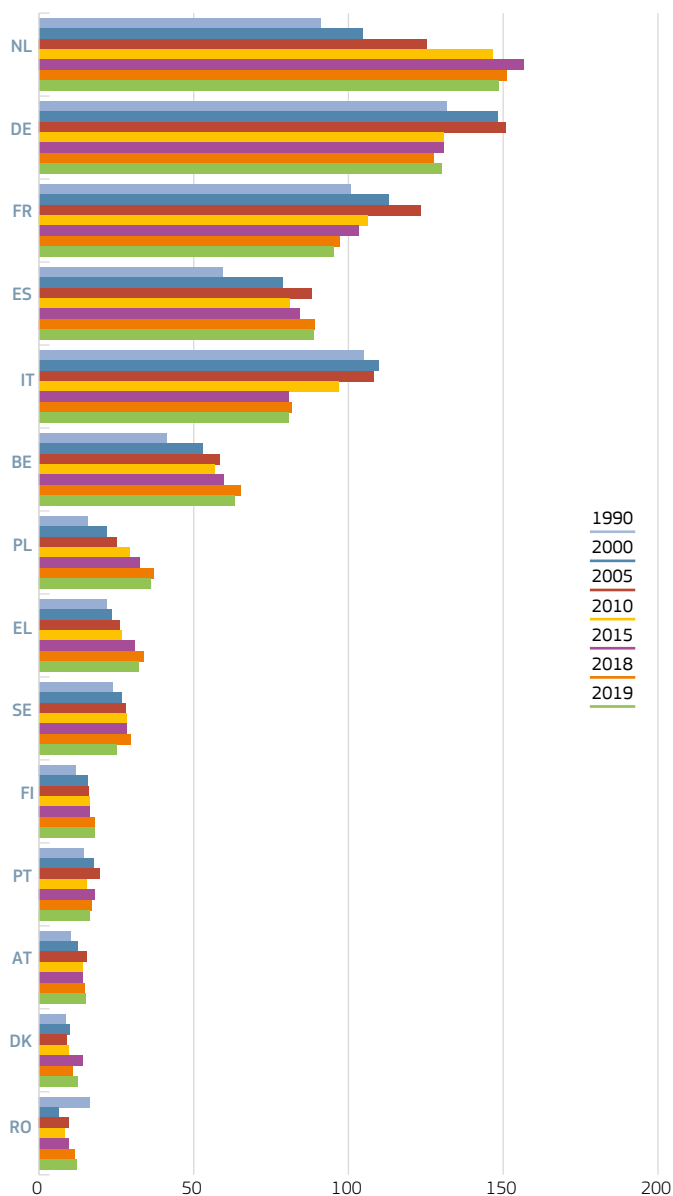
2.2.2 Imports – Oil and Petroleum Products

RANKING

Mtoe and %	2000			2019		
Top 10 Ranking	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Oil and Petroleum Products						
1	DE	148.2	18.5 %	NL	148.4	17.4 %
2	FR	112.9	14.1 %	DE	130.2	15.2 %
3	IT	109.7	13.7 %	FR	95.2	11.1 %
4	NL	104.6	13.1 %	ES	88.8	10.4 %
5	ES	78.7	9.9 %	IT	80.6	9.4 %
6	BE	52.9	6.6 %	BE	63.1	7.4 %
7	SE	26.8	3.4 %	PL	36.2	4.2 %
8	EL	23.4	2.9 %	EL	32.2	3.8 %
9	PL	21.8	2.7 %	SE	25.2	3.0 %
10	PT	17.6	2.2 %	FI	18.1	2.1 %
Top 5 Total		554.1	69.4 %		543.2	63.5 %
Total EU27_2020		799.0	100.0 %		855.2	100.0 %
Of which: Crude Oil and NGL						
1	DE	104.8	18.7 %	DE	87.3	16.8 %
2	FR	85.4	15.2 %	ES	67.0	12.9 %
3	IT	83.6	14.9 %	NL	63.8	12.3 %
4	NL	61.1	10.9 %	IT	63.1	12.2 %
5	ES	58.1	10.4 %	FR	49.6	9.6 %
6	BE	34.2	6.1 %	BE	34.6	6.7 %
7	SE	20.8	3.7 %	PL	27.0	5.2 %
8	EL	19.2	3.4 %	EL	22.6	4.4 %
9	PL	18.3	3.3 %	SE	16.5	3.2 %
10	FI	11.9	2.1 %	FI	12.7	2.4 %
Top 5 Total		393.0	70.1 %		330.8	63.8 %
Total EU27_2020		560.3	100.0 %		518.8	100.0 %

2.2.2 Imports – Oil and Petroleum Products

BY MEMBER STATE – TOP 14 IMPORTERS
1990-2019 (Mtoe)

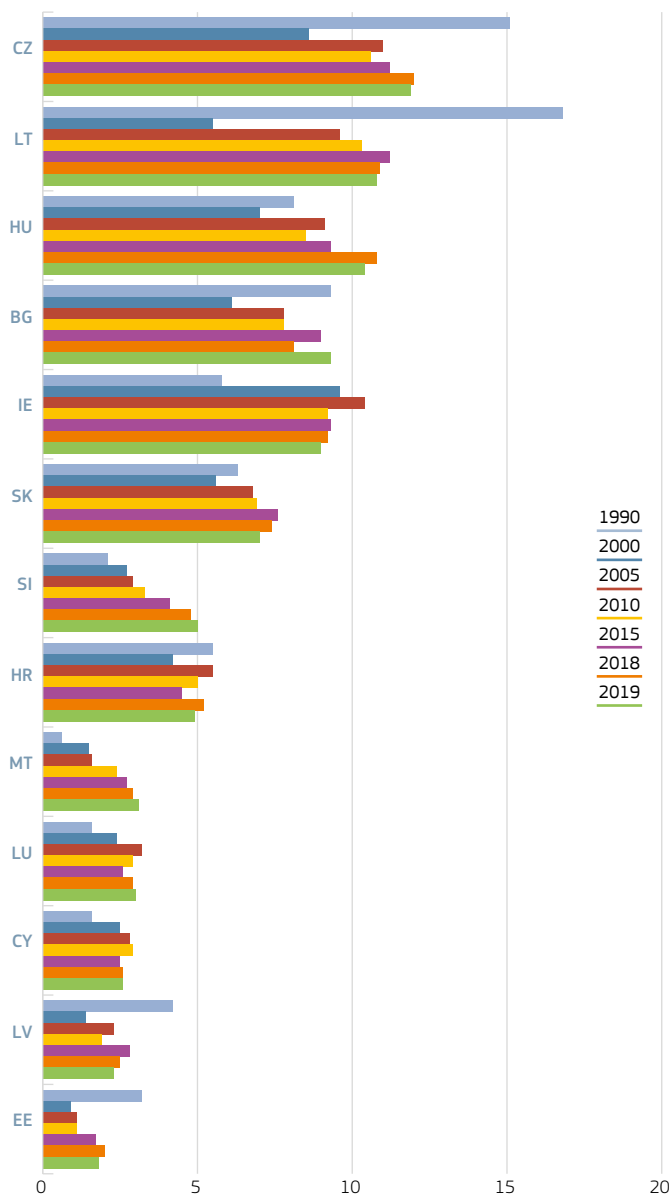


Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.2.2 Imports – Oil and Petroleum Products

BY MEMBER STATE – LEAST 13 IMPORTERS
1990-2019 (Mtoe)



Source: Eurostat April 2021

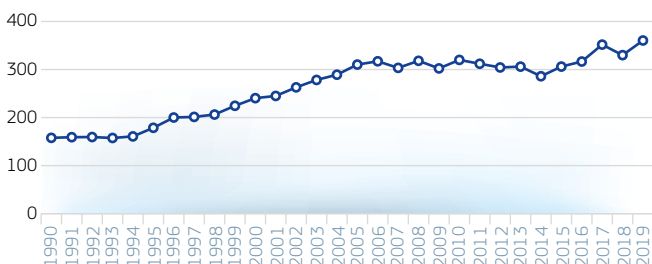
Methodology and Notes: [See Appendices](#)

2.2.3 Imports – Natural Gas

TOTAL

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	240.41	310.34	320.05	306.07	329.88	360.44
Index 2000	100 %	129 %	133 %	127 %	137 %	150 %
BE	13.28	14.82	19.55	15.29	16.24	19.22
BG	2.74	2.46	2.13	2.52	2.59	2.46
CZ	7.48	7.60	6.98	6.16	6.60	7.87
DK	0.00	0.00	0.14	0.63	0.38	1.03
DE	61.09	78.90	78.80	85.92	70.53	75.67
EE	0.66	0.80	0.56	0.39	0.43	0.40
IE	2.48	3.01	4.48	3.62	1.74	2.42
EL	1.69	2.33	3.23	2.67	4.14	4.46
ES	15.47	30.25	31.96	28.18	30.29	32.37
FR	36.46	41.62	42.11	39.38	43.89	48.90
HR	0.91	0.93	0.87	0.87	1.31	1.66
IT	47.05	60.16	61.72	50.18	55.59	58.20
CY	0.00	0.00	0.00	0.00	0.00	0.00
LV	1.11	1.43	0.90	1.08	1.16	1.10
LT	2.06	2.49	2.48	2.14	1.91	2.30
LU	0.67	1.18	1.20	0.77	0.68	0.68
HU	7.35	9.81	7.91	5.68	10.62	15.58
MT	0.00	0.00	0.00	0.00	0.32	0.32
NL	12.47	16.44	18.45	29.24	43.64	42.49
AT	5.32	8.04	10.19	9.82	10.82	11.76
PL	6.64	8.57	8.91	9.99	13.08	14.64
PT	2.04	3.89	4.50	4.07	5.10	5.30
RO	2.71	4.19	1.82	0.16	1.22	2.16
SI	0.82	0.93	0.86	0.66	0.72	0.73
SK	5.71	6.05	5.00	3.69	3.65	5.58
FI	3.43	3.61	3.84	2.24	2.18	2.14
SE	0.78	0.84	1.47	0.72	1.04	0.98

IMPORTS – NATURAL GAS – TOTAL – 1990-2019 (Mtoe) EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

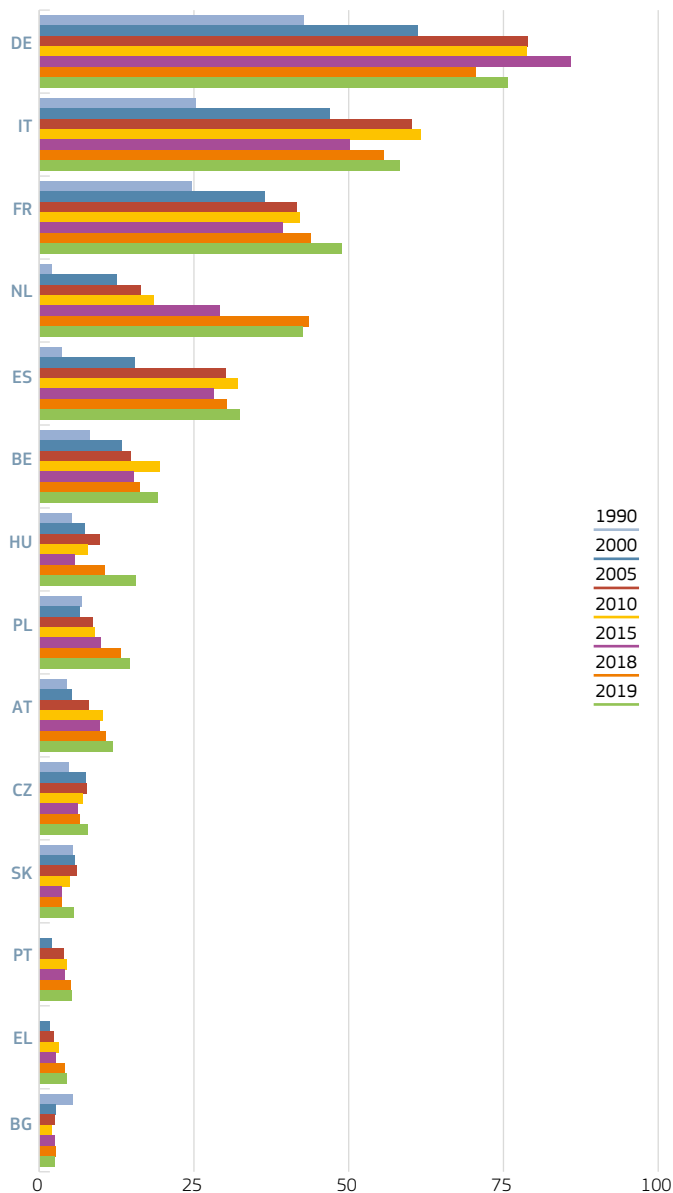
2.2.3 Imports – Natural Gas

RANKING

Mtoe and % EU27_2020 Ranking	2000			2019		
	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Natural Gas						
1	DE	61.1	25.4%	DE	75.7	21.0%
2	IT	47.0	19.6%	IT	58.2	16.1%
3	FR	36.5	15.2%	FR	48.9	13.6%
4	ES	15.5	6.4%	NL	42.5	11.8%
5	BE	13.3	5.5%	ES	32.4	9.0%
6	NL	12.5	5.2%	BE	19.2	5.3%
7	CZ	7.5	3.1%	HU	15.6	4.3%
8	HU	7.3	3.1%	PL	14.6	4.1%
9	PL	6.6	2.8%	AT	11.8	3.3%
10	SK	5.7	2.4%	CZ	7.9	2.2%
11	AT	5.3	2.2%	SK	5.6	1.5%
12	FI	3.4	1.4%	PT	5.3	1.5%
13	BG	2.7	1.1%	EL	4.5	1.2%
14	RO	2.7	1.1%	BG	2.5	0.7%
15	IE	2.5	1.0%	IE	2.4	0.7%
16	LT	2.1	0.9%	LT	2.3	0.6%
17	PT	2.0	0.8%	RO	2.2	0.6%
18	EL	1.7	0.7%	FI	2.1	0.6%
19	LV	1.1	0.5%	HR	1.7	0.5%
20	HR	0.9	0.4%	LV	1.1	0.3%
21	SI	0.8	0.3%	DK	1.0	0.3%
22	SE	0.8	0.3%	SE	1.0	0.3%
23	LU	0.7	0.3%	SI	0.7	0.2%
24	EE	0.7	0.3%	LU	0.7	0.2%
25	DK	0.0	0.0%	EE	0.4	0.1%
26	CY	0.0	0.0%	MT	0.3	0.1%
27	MT	0.0	0.0%	CY	0.0	0.0%
Top 5 Total		173.3	72.1%		257.6	71.5%
Total EU27_2020		240.4	100.0%		360.4	100.0%

2.2.3 Imports – Natural Gas

BY MEMBER STATE – TOP 14 IMPORTERS
1990-2019 (Mtoe)

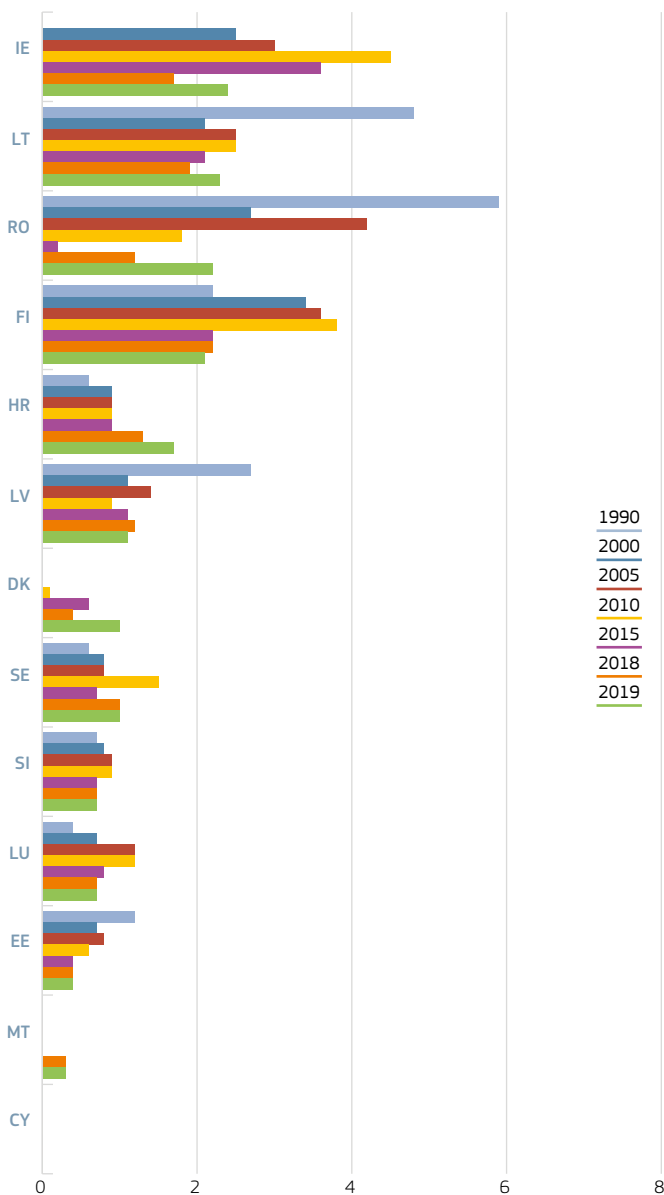


Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.2.3 Imports – Natural Gas

BY MEMBER STATE – LEAST 13 IMPORTERS
1990-2019 (Mtoe)



Source: Eurostat April 2021

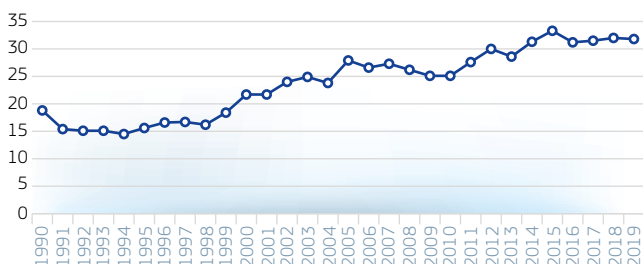
Methodology and Notes: [See Appendices](#)

2.2.4 Imports – Electricity

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	21.7	27.9	25.1	33.3	32.0	31.8
Index 2000	100 %	129 %	116 %	154 %	148 %	147 %
BE	1.00	1.23	1.07	2.04	1.86	1.09
BG	0.08	0.07	0.10	0.37	0.19	0.26
CZ	0.75	1.06	0.57	1.39	1.00	0.95
DK	0.72	1.11	0.91	1.35	1.34	1.37
DE	3.88	4.89	3.69	3.18	2.73	3.45
EE	0.03	0.03	0.09	0.47	0.26	0.42
IE	0.01	0.18	0.07	0.15	0.14	0.19
EL	0.15	0.48	0.73	0.95	0.74	0.95
ES	1.05	0.88	0.45	1.29	2.07	1.61
FR	0.32	0.69	1.67	0.86	1.16	1.34
HR	0.38	0.75	1.07	1.13	1.09	0.98
IT	3.85	4.32	3.95	4.37	4.06	3.78
CY	0.00	0.00	0.00	0.00	0.00	0.00
LV	0.18	0.25	0.34	0.45	0.44	0.40
LT	0.44	0.49	0.70	0.68	1.10	1.14
LU	0.55	0.55	0.63	0.65	0.65	0.59
HU	0.82	1.34	0.85	1.71	1.60	1.71
MT	0.00	0.00	0.00	0.09	0.05	0.06
NL	1.97	2.04	1.34	2.64	2.30	1.75
AT	1.19	1.75	1.71	2.53	2.41	2.24
PL	0.28	0.43	0.54	1.24	1.19	1.54
PT	0.40	0.83	0.50	0.69	0.49	0.70
RO	0.07	0.20	0.07	0.39	0.32	0.47
SI	0.36	0.80	0.74	0.78	0.77	0.78
SK	0.51	0.69	0.63	1.29	1.07	1.16
FI	1.05	1.54	1.35	1.85	1.94	2.06
SE	1.57	1.25	1.28	0.80	1.05	0.78

IMPORTS – ELECTRICITY – 1990-2019 (Mtoe)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

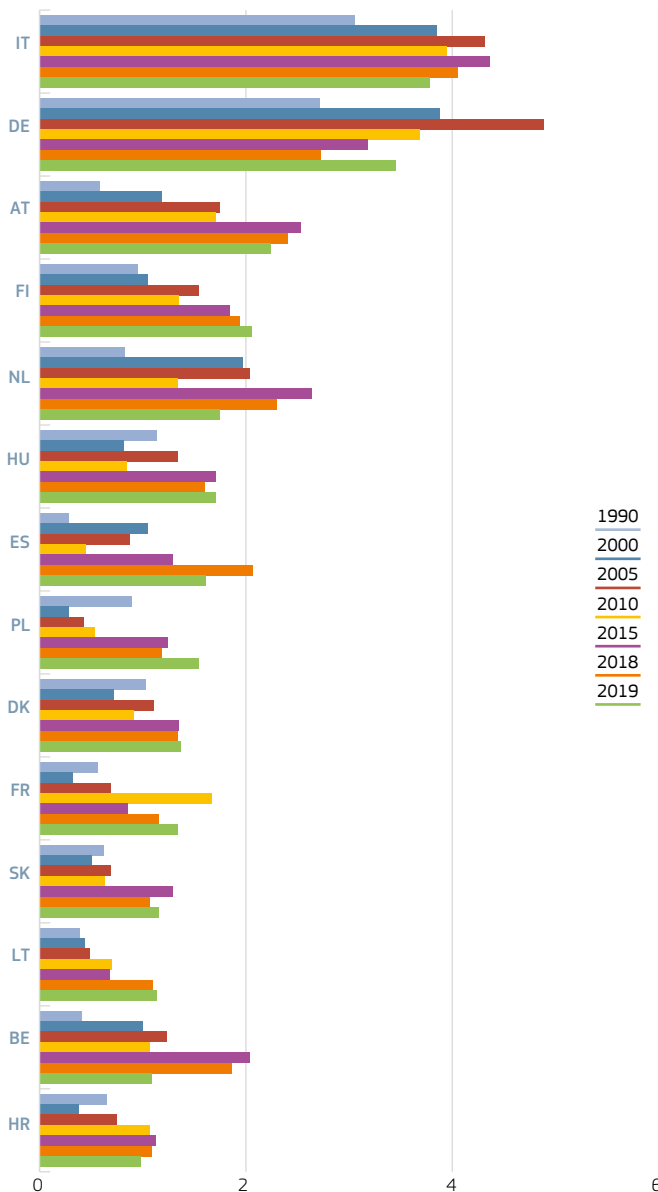
2.2.4 Imports – Electricity

RANKING

Mtoe and % EU27_2020 Ranking	2000			2019		
	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Electricity						
1	DE	3.88	17.9%	IT	3.78	11.9%
2	IT	3.85	17.8%	DE	3.45	10.9%
3	NL	1.97	9.1%	AT	2.24	7.1%
4	SE	1.57	7.3%	FI	2.06	6.5%
5	AT	1.19	5.5%	NL	1.75	5.5%
6	ES	1.05	4.9%	HU	1.71	5.4%
7	FI	1.05	4.8%	ES	1.61	5.1%
8	BE	1.00	4.6%	PL	1.54	4.8%
9	HU	0.82	3.8%	DK	1.37	4.3%
10	CZ	0.75	3.5%	FR	1.34	4.2%
11	DK	0.72	3.3%	SK	1.16	3.7%
12	LU	0.55	2.6%	LT	1.14	3.6%
13	SK	0.51	2.4%	BE	1.09	3.4%
14	LT	0.44	2.0%	HR	0.98	3.1%
15	PT	0.40	1.9%	EL	0.95	3.0%
16	HR	0.38	1.7%	CZ	0.95	3.0%
17	SI	0.36	1.7%	SE	0.78	2.5%
18	FR	0.32	1.5%	S	0.78	2.4%
19	PL	0.28	1.3%	PT	0.70	2.2%
20	LV	0.18	0.8%	LU	0.59	1.8%
21	EL	0.15	0.7%	RO	0.47	1.5%
22	BG	0.08	0.4%	EE	0.42	1.3%
23	RO	0.07	0.3%	LV	0.40	1.2%
24	EE	0.03	0.1%	BG	0.26	0.8%
25	IE	0.01	0.1%	IE	0.19	0.6%
26	CY	0.00	0.0%	MT	0.06	0.2%
27	MT	0.00	0.0%	CY	0.00	0.0%
Top 5 Total		12.5	57.6%		13.3	41.8%
Total EU27_2020		21.7	100.0%		31.8	100.0%

2.2.4 Imports – Electricity

BY MEMBER STATE – TOP 14 IMPORTERS
1990-2019 (Mtoe)

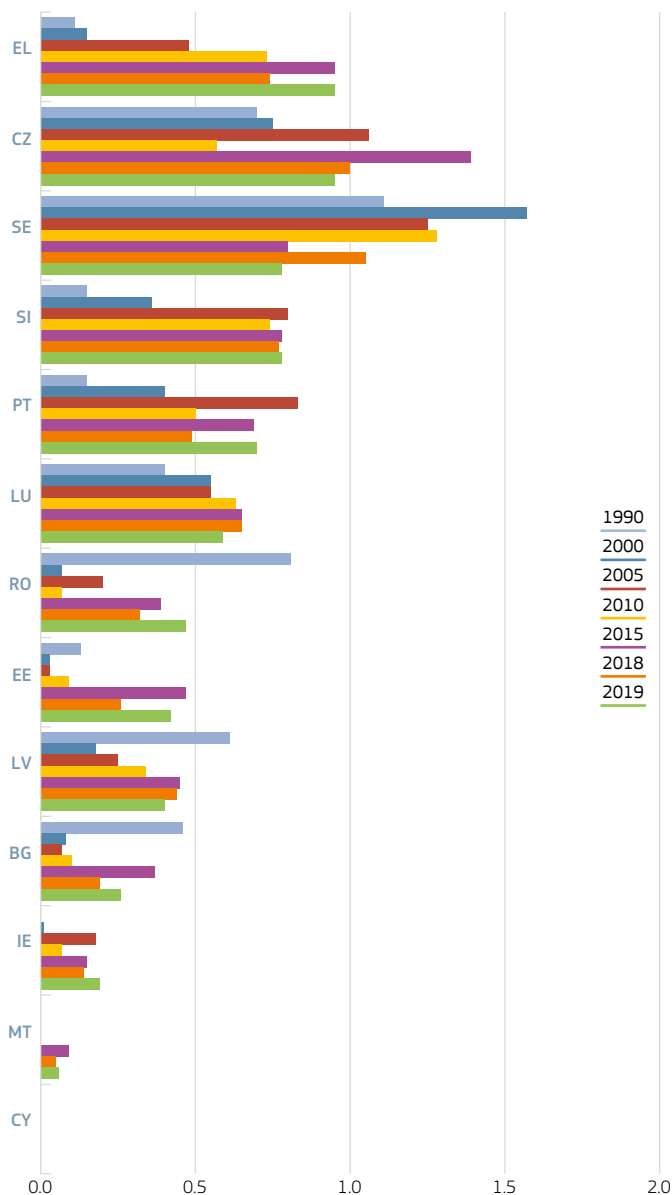


Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.2.4 Imports – Electricity

BY MEMBER STATE – LEAST 13 IMPORTERS
1990-2019 (Mtoe)



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

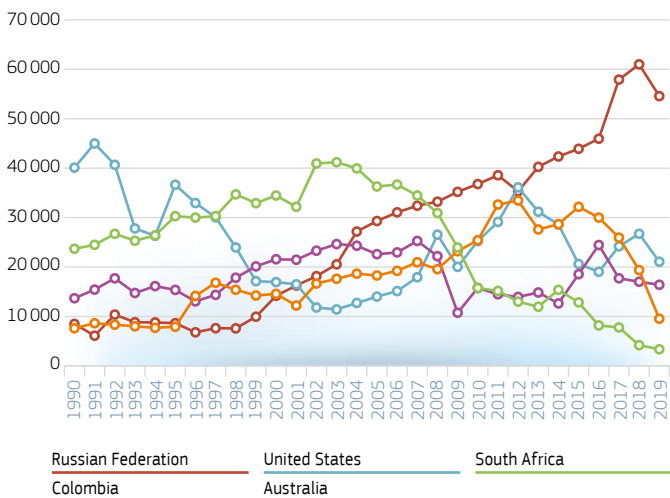
2.2.5 Imports by Country of Origin

EU27_2020 – HARD COAL

TOP 15 ORDERED BY 2019 VOLUME

kton	2000	2005	2010	2015	2018	2019
Russia	14 179	29 302	36 786	43 916	61 010	54 574
United States	16 950	14 023	25 248	20 620	26 725	21 071
Australia	21 576	22 596	15 756	18 550	17 027	16 409
Colombia	14 566	18 282	25 414	32 179	19 390	9 530
South Africa	34 466	36 295	15 762	12 851	4 193	3 363
Canada	4 675	5 531	3 137	2 707	3 693	2 728
Kazakhstan	0	932	332	873	1 401	2 629
Indonesia	7 233	12 314	9 051	7 005	5 443	2 595
Mozambique	70	0	0	838	2 545	1 848
United Kingdom	347	181	141	158	1 189	1 315
Norway	750	1 045	930	571	118	192
Venezuela	3 328	1 988	659	207	31	185
Peru	0	0	0	0	0	62
Ukraine	2 058	4 209	3 024	817	335	58
Singapore	0	0	0	0	0	38
Other extra-EU	6 965	3 775	7 748	11 775	1 112	34
kton						
Extra-EU	127 163	150 473	143 986	153 068	144 213	116 632
Intra-EU	28 432	24 324	20 515	13 492	10 251	8 771
Total Intra-EU and Extra-EU	155 595	174 797	164 501	166 560	154 464	125 403

EU27_2020 – HARD COAL – IMPORTS FROM EXTRA-EU (1990-2019) TOP 5 ORDERED BY 2019 VOLUME (kton)



Source: Eurostat April 2021

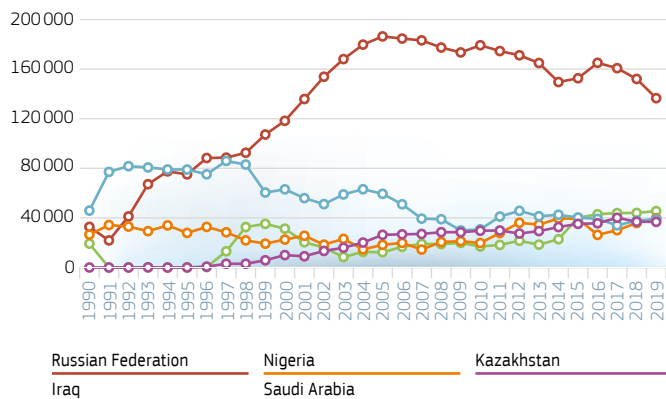
Methodology and Notes: [See Appendices](#)

2.2.5 Imports by Country of Origin

EU27_2020 – CRUDE OIL & NGL

TOP 15 ORDERED BY 2019 VOLUME

kton	2000	2005	2010	2015	2018	2019
Russia	118 282	186 376	179 253	152 630	152 072	136 562
Iraq	31 317	12 290	16 945	40 078	44 020	45 510
Nigeria	22 530	18 293	19 746	39 233	35 860	39 750
Saudi Arabia	63 036	59 427	30 759	40 264	37 775	38 890
Kazakhstan	9 993	26 349	29 654	35 185	36 909	36 811
Norway	83 622	60 053	40 523	42 990	38 455	35 992
Libya	45 540	50 136	50 929	12 678	31 518	31 447
United States	0	0	28	1 798	13 738	27 531
United Kingdom	45 810	29 133	28 609	20 291	20 133	24 964
Azerbaijan	3 712	7 255	22 840	27 297	23 332	22 743
Algeria	20 565	20 972	6 990	17 644	10 728	12 699
Mexico	9 041	10 205	6 782	12 980	10 829	10 025
Angola	3 861	7 025	8 367	19 436	7 034	7 326
Kuwait	9 741	7 618	3 420	6 621	5 366	5 238
Venezuela	5 852	5 522	4 181	5 061	2 742	5 194
Other extra-EU	69 178	62 269	63 302	36 563	44 299	27 294
kton						
Extra-EU	542 081	562 923	512 328	510 749	514 810	507 975
Intra-EU	13 908	16 945	9 485	9 282	5 349	4 766
Total Intra-EU and Extra-EU	555 989	579 867	521 813	520 031	520 158	512 741
Mio barrels						
Extra-EU	3 974	4 127	3 756	3 744	3 774	3 724
Intra-EU	102	124	70	68	39	35
Total Intra-EU and Extra-EU	4 076	4 251	3 826	3 813	3 813	3 759

EU27_2020 – CRUDE OIL & NGL – IMPORTS FROM EXTRA-EU
(1990-2019) TOP 5 ORDERED BY 2019 VOLUME (kton)

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

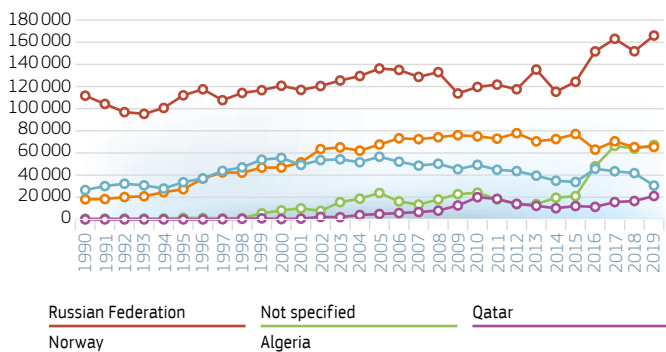
2.2.5 Imports by Country of Origin

EU27_2020 – NATURAL GAS

TOP 8 ORDERED BY 2019 VOLUME

TJ (GCV)	2000	2005	2010	2015	2018	2019
Russia	4 582 197	5 207 617	4 555 369	4 778 474	5 802 458	6 366 364
Norway	1 880 469	2 579 666	2 876 470	2 949 504	2 443 199	2 469 101
Not specified	334 765	937 384	957 962	819 915	2 333 549	2 452 840
Algeria	2 203 075	2 240 256	1 944 865	1 352 071	1 654 848	1 208 481
Qatar	12 443	195 713	798 681	472 595	654 356	833 069
Nigeria	172 020	436 319	562 811	249 411	403 083	538 548
United States	0	0	0	0	92 828	485 998
UK	427 099	263 085	490 364	480 219	335 297	420 602
Other extra-EU	118 858	711 631	750 993	401 733	408 293	622 097
Extra-EU	9730926	12571671	12937515	11503922	14127910	15397101
Intra-EU	1 453 115	1 865 252	1 951 064	2 734 424	1 211 429	1 368 003
Total Intra-EU and Extra-EU	11 184 041	14 436 923	14 888 579	14 238 346	15 339 339	16 765 103
Mio m ³						
Russia	120 699	136 283	119 665	124 320	151 879	166 036
Not specified	8 126	23 866	24 111	21 028	63 947	67 298
Norway	46 847	67 641	74 994	77 124	65 312	65 446
Algeria	55 513	56 588	49 289	33 776	41 841	30 567
Qatar	309	4 859	20 045	12 063	16 619	21 099
Nigeria	4 385	10 586	13 682	6 173	9 856	13 272
United States	0	0	0	0	2 441	12 501
UK	12 044	7 046	13 481	13 053	9 559	11 912
Other extra-EU	3 004	18 078	19 149	10 414	10 436	16 054
Extra-EU	250 927	324 947	334 416	297 950	371 890	404 184
Intra-EU	41 231	49 492	51 444	71 648	32 629	36 409
Total Intra-EU and Extra-EU	292 158	374 439	385 860	369 598	404 519	440 593

EU27_2020 – NATURAL GAS – IMPORTS FROM EXTRA-EU (1990-2019) TOP 5 BY 2019 VOLUME (Mio m³)



Source: Eurostat April 2021

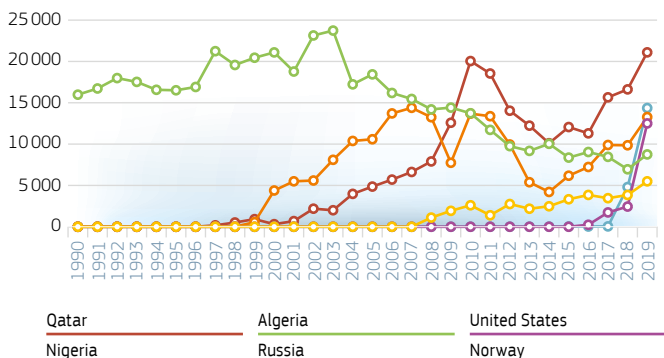
Methodology and Notes: [See Appendices](#)

2.2.5 Imports by Country of Origin

EU27_2020 – LNG

TOP 8 ORDERED BY 2019 VOLUME

TJ (GCV)	2000	2005	2010	2015	2018	2019
Qatar	12 443	195 713	798 681	472 595	654 356	833 069
Russia	0	0	115	1 077	174 445	563 907
Nigeria	172 020	436 319	562 811	249 411	403 083	538 548
United States	0	0	0	0	92 828	485 998
Algeria	871 464	758 810	568 072	342 350	283 160	349 720
Norway	0	0	104 694	120 466	144 855	205 012
Trinidad and Tobago	36 334	26 453	145 341	58 483	92 663	187 750
Egypt	0	202 419	179 984	0	5 863	80 491
Other extra-EU	64 704	133 591	76 612	47 476	189 527	156 554
Extra-EU	1 156 965	1 753 305	2 436 310	1 291 859	2 040 779	3 401 049
Intra-EU	0	0	3 153	202	13 852	27 547
Total Intra-EU and Extra-EU	1 156 965	1 753 305	2 439 463	1 292 061	2 054 631	3 428 595
Mio m ³						
Qatar	309	4 859	20 045	12 063	16 619	21 099
Russia	0	0	3	29	4 800	14 361
Nigeria	4 385	10 586	13 682	6 173	9 856	13 272
United States	0	0	0	0	2 441	12 501
Algeria	21 093	18 436	13 730	8 364	6 952	8 750
Norway	0	0	2 598	3 324	3 845	5 494
Trinidad and Tobago	902	671	3 594	1 492	2 295	4 752
Egypt	0	4 929	4 455	0	154	1 993
Other extra-EU	1 605	3 318	1 893	1 198	4 912	4 168
Extra-EU	28 294	42 799	60 000	32 643	51 872	86 391
Intra-EU	0	0	78	5	329	681
Total Intra-EU and Extra-EU	28 294	42 799	60 078	32 648	52 201	87 072

EU27_2020 – LNG – IMPORTS FROM EXTRA-EU
(1990-2019) TOP 5 BY 2019 VOLUME (Mio m³)

Source: Eurostat April 2021

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	2018	2019
EU27_2020	56.3	57.8	55.7	56.0	58.2	60.7
Index 2000	100.0	102.8	99.1	99.5	103.4	107.9
Intra and Extra-EU Imports						
BE	78.2	80.0	77.5	83.4	82.3	76.7
BG	46.4	47.3	40.1	36.4	36.3	38.1
CZ	22.7	27.8	25.4	32.1	36.9	40.9
DK	-35.9	-50.6	-16.0	13.2	23.0	38.8
DE	59.4	60.7	60.0	62.1	63.4	67.6
EE	33.8	28.0	15.3	10.0	1.0	4.8
IE	85.4	89.7	87.5	88.7	67.7	68.4
EL	69.1	68.2	68.6	71.0	70.7	74.1
ES	76.8	81.5	77.1	72.8	73.5	75.0
FR	51.2	51.7	48.7	45.9	46.8	47.6
HR	48.5	52.6	46.7	48.8	52.7	56.2
IT	86.5	83.3	82.6	77.0	76.3	77.5
CY	98.6	100.7	100.6	97.3	92.5	92.8
LV	61.0	63.8	45.5	51.2	44.3	44.0
LT	57.8	55.3	79.0	75.5	73.9	75.2
LU	99.6	97.4	97.0	95.9	95.2	95.1
HU	55.0	62.3	56.9	53.9	58.1	69.7
MT	100.2	100.0	99.0	97.3	97.5	97.2
NL	38.3	37.8	28.3	48.7	59.5	64.7
AT	65.5	71.8	62.8	60.4	64.2	71.7
PL	10.7	17.7	31.6	29.8	44.8	46.8
PT	85.3	88.6	75.2	76.3	75.6	73.8
RO	21.9	27.5	21.4	16.7	24.3	30.4
SI	51.9	50.8	49.3	49.3	51.2	52.1
SK	65.1	66.0	64.4	60.1	63.7	69.8
FI	55.5	54.5	48.9	48.0	44.9	42.1
SE	39.3	38.1	38.0	30.1	29.1	30.2

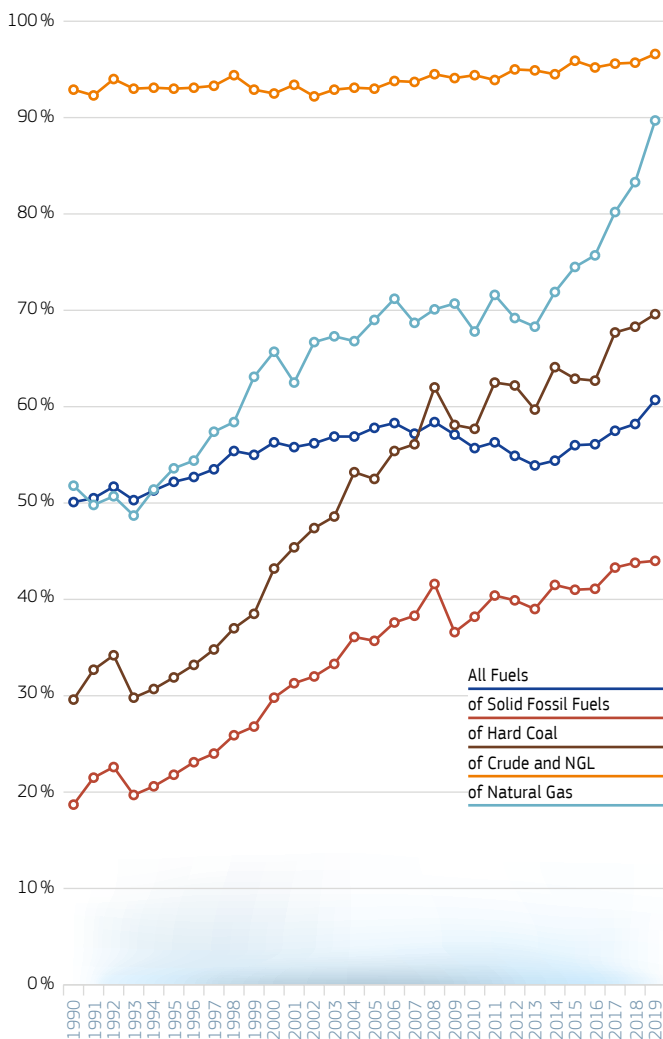
* Negative Rate Indicates a Net Exporter.
Values Over 100% Indicate Stocks Build Up.
EU27_2020: imports from extra-EU

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.3.2 Import Dependency by Fuel

EU27_2020 – IMPORTS FROM EXTRA-EU – 1990-2019 (%)



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.3.3 Import Dependency – Solid Fuels *

(%)

Imports from Extra-EU	2000	2005	2010	2015	2018	2019
EU27_2020	29.8	35.7	38.2	41.0	43.8	44.0
Index 2000	100.0	119.6	128.1	137.3	146.7	147.3
Intra and Extra-EU Imports						
BE	91.2	101.3	97.5	95.6	104.2	102.2
BG	35.2	36.9	24.5	11.2	10.1	7.2
CZ	-22.0	-16.2	-15.3	-1.8	5.8	8.9
DK	94.9	94.4	69.4	85.0	102.3	154.0
DE	25.6	31.7	40.0	45.4	42.1	49.6
EE	125.2	88.4	132.6	-6.8	85.2	107.2
IE	93.3	100.8	77.7	103.0	112.9	54.7
EL	8.5	4.1	5.1	2.8	5.1	6.4
ES	61.3	70.3	92.8	75.4	79.9	92.6
FR	86.3	94.4	101.0	98.4	101.0	99.6
HR	110.9	91.3	102.5	103.0	91.3	107.3
IT	104.6	99.4	100.8	100.2	101.0	98.6
CY	102.0	121.1	65.6	100.0	97.5	117.2
LV	84.1	97.7	106.5	85.2	91.3	110.8
LT	101.7	101.0	95.7	90.6	99.0	108.1
LU	100.0	100.0	100.0	100.0	100.0	100.0
HU	28.1	42.5	41.9	33.7	48.4	45.7
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	99.4	101.3	101.4	96.6	99.8	102.1
AT	83.9	99.4	99.6	86.9	97.6	96.9
PL	-29.0	-23.8	-5.0	-11.4	8.2	6.0
PT	102.9	96.3	98.3	98.5	98.9	122.1
RO	25.5	33.2	16.9	16.7	17.6	22.0
SI	18.8	21.0	19.3	19.1	18.9	20.1
SK	80.2	88.3	75.7	84.5	91.9	92.2
FI	97.6	102.0	86.3	91.3	100.7	98.8
SE	105.4	105.9	113.7	97.4	100.3	103.2

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

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.3.4 Import Dependency – Hard Coal*

(%)

Imports from Extra-EU	2000	2005	2010	2015	2018	2019
EU27_2020	43.2	52.5	57.7	62.9	68.3	69.6
Index 2000	100.0	121.5	133.4	145.5	157.9	160.8
Intra and Extra-EU Imports						
BE	93.5	102.0	100.0	96.1	105.8	102.8
BG	101.0	94.0	86.0	96.1	83.9	57.6
CZ	-56.4	-49.4	-53.9	-8.6	28.4	42.3
DK	94.8	94.3	69.3	85.0	102.2	154.5
DE	39.2	57.7	73.2	87.6	87.4	105.3
EE	116.1	96.4	118.3	24.1	88.0	96.7
IE	93.1	100.8	77.5	103.0	113.2	53.9
EL	105.8	112.4	100.5	91.5	87.4	105.0
ES	71.5	79.1	95.7	79.6	80.9	91.6
FR	87.2	92.8	100.6	97.0	101.4	99.2
HR	112.8	90.6	102.7	102.4	90.6	108.6
IT	105.7	99.7	101.4	100.5	101.1	98.4
CY	102.0	121.2	65.4	100.0	97.5	117.2
LV	82.5	96.7	106.6	85.2	91.3	110.8
LT	100.0	100.0	109.7	90.1	98.8	109.1
LU	100.0	100.0	100.0	100.0	100.0	100.0
HU	96.4	108.3	99.2	99.2	102.7	98.8
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	98.9	100.0	101.6	96.5	99.5	101.8
AT	91.6	106.8	97.3	83.5	95.7	98.5
PL	-29.9	-21.3	3.7	-2.4	20.2	17.8
PT	103.4	96.3	98.3	98.5	98.9	122.3
RO	96.3	103.1	88.4	96.9	103.3	97.7
SI	118.2	100.0	135.3	124.2	90.4	95.9
SK	103.8	105.2	91.9	97.5	100.9	102.7
FI	97.7	102.6	85.5	88.6	99.7	96.0
SE	107.7	104.3	115.2	99.6	97.1	98.1

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

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.3.5 Import Dependency – Oil and Petroleum Products *

(%)

Imports from Extra-EU	2000	2005	2010	2015	2018	2019
EU27_2020	93.3	93.9	94.0	96.8	94.5	96.8
Index 2000	100.0	100.6	100.8	103.7	101.3	103.7
Intra and Extra-EU Imports						
BE	100.2	100.8	101.3	103.8	100.7	101.5
BG	96.0	102.5	101.9	101.8	95.7	102.6
CZ	95.3	97.5	96.5	97.8	99.5	97.5
DK	-84.1	-104.4	-44.3	5.3	18.3	44.9
DE	94.6	97.3	96.8	96.5	95.5	97.3
EE	101.5	98.8	95.8	101.7	84.3	129.5
IE	98.8	100.0	97.5	104.6	98.0	98.8
EL	100.3	97.8	98.7	105.5	97.9	95.7
ES	101.0	101.2	99.9	102.2	99.0	101.8
FR	99.5	99.5	98.0	98.7	97.7	98.4
HR	61.0	79.4	80.6	81.4	82.1	76.3
IT	96.1	91.8	93.6	89.4	89.8	92.5
CY	100.3	102.3	104.2	102.8	99.2	99.7
LV	94.9	102.2	94.4	102.9	98.1	100.2
LT	101.0	93.4	98.7	100.7	98.4	100.8
LU	102.1	99.4	99.3	99.3	99.7	100.4
HU	75.9	82.0	85.3	93.7	86.2	86.6
MT	100.2	100.0	99.2	97.9	97.4	97.8
NL	97.4	96.2	94.2	101.8	94.1	101.6
AT	89.0	92.1	90.4	93.8	94.0	95.7
PL	99.7	98.5	98.2	99.5	98.8	97.3
PT	99.4	102.3	97.5	101.7	103.9	98.1
RO	34.4	38.6	52.6	54.2	63.1	65.8
SI	101.5	101.2	99.2	99.6	99.2	101.4
SK	92.5	97.4	98.4	100.6	101.3	101.3
FI	104.1	99.1	92.3	109.6	98.6	95.0
SE	100.8	103.9	93.7	114.6	90.6	106.7

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

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.3.6 Import Dependency – Crude and NGL *

(%)

Imports from Extra-EU	2000	2005	2010	2015	2018	2019
EU27_2020	92.5	93.0	94.4	95.9	95.7	96.6
Index 2000	100.0	100.5	102.0	103.7	103.5	104.4
Intra and Extra-EU Imports						
BE	100.2	99.5	99.9	100.0	100.0	100.0
BG	98.7	97.7	99.1	100.5	99.5	102.6
CZ	95.2	99.3	97.5	98.4	98.6	98.6
DK	-120.5	-141.3	-68.8	-4.9	25.3	36.0
DE	93.8	97.3	97.3	97.1	97.1	98.3
EE	0.0	0.0	0.0	0.0	0.0	0.0
IE	89.8	98.9	101.6	108.2	98.7	100.9
EL	99.6	95.2	99.6	101.5	99.2	98.1
ES	100.6	100.1	99.3	99.5	99.5	101.0
FR	98.5	98.2	98.2	98.8	97.7	98.3
HR	72.1	78.9	82.3	79.6	81.2	71.1
IT	95.1	94.0	94.5	92.2	91.9	93.9
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	99.2	100.8
LU	0.0	0.0	0.0	0.0	0.0	0.0
HU	78.5	81.8	85.3	91.4	86.3	84.6
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	96.7	96.7	97.6	98.0	98.2	99.9
AT	86.9	88.8	86.5	91.1	92.7	94.0
PL	99.2	97.4	98.4	100.5	98.3	96.7
PT	99.0	100.2	98.8	100.9	100.9	100.4
RO	43.5	62.0	57.2	63.0	70.8	71.9
SI	87.2	0.0	0.0	0.0	0.0	0.0
SK	97.6	97.8	99.9	99.3	100.0	100.5
FI	101.5	97.5	101.1	104.2	100.1	99.0
SE	100.6	100.4	99.0	103.6	99.3	100.0

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

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.3.7 Import Dependency – Natural Gas*

(%)

Imports from Extra-EU	2000	2005	2010	2015	2018	2019
EU27_2020	65.7	69.0	67.8	74.5	83.3	89.7
Index 2000	100.0	105.0	103.1	113.3	126.7	136.5
Intra and Extra-EU Imports						
BE	99.3	100.5	100.3	99.3	100.6	101.9
BG	93.5	87.7	92.6	97.0	98.7	100.4
CZ	99.8	97.8	84.8	95.1	96.8	109.7
DK	-64.8	-113.9	-68.3	-46.5	-36.8	-5.8
DE	79.1	79.6	81.2	90.1	95.9	100.1
EE	100.0	100.0	100.0	100.0	104.0	105.4
IE	72.1	86.1	95.3	96.3	38.8	53.0
EL	99.1	99.1	99.9	99.9	100.7	99.0
ES	101.6	101.4	99.4	96.9	101.4	101.6
FR	100.0	99.3	92.8	98.5	104.7	104.5
HR	41.0	23.7	18.1	27.1	53.3	66.4
IT	81.1	84.7	90.5	90.4	92.9	95.1
CY	0.0	0.0	0.0	0.0	0.0	0.0
LV	101.9	105.6	61.8	98.6	98.8	100.0
LT	100.0	100.7	99.7	99.7	98.9	100.0
LU	100.0	100.0	100.0	100.0	100.0	100.0
HU	75.4	81.1	78.7	69.7	77.9	115.2
MT	0.0	0.0	0.0	0.0	109.5	103.6
NL	-49.1	-59.3	-60.4	-36.7	15.0	26.0
AT	80.6	88.5	75.3	72.6	88.2	122.8
PL	66.3	69.7	69.3	72.2	77.6	83.1
PT	100.3	103.8	100.4	100.4	101.1	99.9
RO	19.8	30.1	16.8	1.8	12.0	23.2
SI	99.3	99.6	99.3	99.6	98.1	99.4
SK	98.8	97.5	99.9	95.1	89.6	136.6
FI	100.0	100.0	100.0	100.0	100.3	100.6
SE	100.0	100.0	100.0	100.0	102.1	101.8

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

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

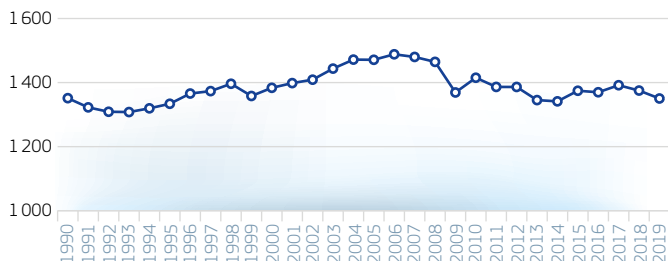
2.4 Energy Transformation

2.4.1 Transformation Input – All Fuels

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	1 383,6	1 471,1	1 415,1	1 374,5	1 375,1	1 350,3
Index 2000	100 %	106 %	102 %	99 %	99 %	98 %
BE	68.63	67.35	68.70	61.03	60.09	66.10
BG	18.65	20.99	18.84	19.72	18.90	19.46
CZ	31.82	37.02	37.33	34.33	35.42	34.70
DK	18.06	16.31	16.61	17.83	18.52	16.62
DE	292.34	313.34	291.21	280.71	269.12	259.89
EE	3.50	3.84	4.83	4.63	5.68	4.10
IE	8.59	8.85	8.53	8.55	8.39	7.97
EL	35.80	35.59	35.28	40.12	45.80	41.77
ES	115.16	126.81	121.90	133.10	136.37	130.80
FR	234.01	242.41	227.60	213.11	204.68	196.45
HR	7.72	7.88	6.78	5.40	6.21	5.17
IT	163.61	176.39	161.45	136.66	134.86	138.58
CY	2.08	1.09	1.21	0.97	1.08	1.07
LV	1.39	1.66	1.49	1.39	1.64	1.59
LT	9.43	14.78	12.53	11.86	12.43	12.17
LU	0.20	0.69	0.74	0.43	0.36	0.35
HU	19.87	21.66	23.01	18.92	18.49	18.18
MT	0.50	0.61	0.58	0.28	0.33	0.35
NL	104.43	111.74	113.01	118.20	125.24	129.85
AT	20.35	22.52	22.53	23.10	22.80	23.61
PL	72.87	72.58	79.74	83.18	83.93	81.22
PT	20.97	22.98	20.73	25.26	24.67	22.25
RO	29.11	32.20	26.03	26.06	26.27	26.22
SI	3.11	3.41	3.41	2.95	3.16	3.14
SK	16.91	18.73	17.34	17.09	16.24	15.61
FI	32.41	34.11	38.80	32.92	35.79	35.68
SE	52.05	55.51	54.86	56.67	58.64	57.38

TRANSFORMATION INPUT – ALL FUELS – 1990-2019 (Mtoe)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.4.2 Transformation Input by Fuel

	2019						
	Transformation Input	Solid fossil fuels	Oil and petroleum products	Natural gas	Nuclear	Renewables and biofuels	Waste, non-renewable
Mtoe							
EU27_2020	1 350.3	175.0	702.2	106.6	196.9	143.1	9.3
Share (%)	100.0 %	13.0 %	52.0 %	7.9 %	14.6 %	10.6 %	0.7 %
BE	66.10	3.23	43.10	3.88	11.34	2.91	0.50
BG	19.46	4.93	7.82	1.03	4.30	1.24	0.01
CZ	34.70	14.20	8.49	1.69	7.55	1.97	0.06
DK	16.62	0.80	10.10	0.71	0.00	4.57	0.40
DE	259.89	58.97	125.92	18.43	19.33	31.21	2.97
EE	4.10	0.00	0.04	0.12	0.00	0.74	0.02
IE	7.97	0.15	3.36	2.56	0.00	1.25	0.09
EL	41.77	3.00	34.04	3.02	0.00	1.67	0.04
ES	130.80	5.03	83.61	12.76	15.22	13.35	0.31
FR	196.45	8.03	57.69	7.19	103.99	17.10	1.29
HR	5.17	0.34	3.10	0.70	0.00	1.02	0.00
IT	138.58	7.19	84.32	25.44	0.00	19.88	0.90
CY	1.07	0.00	1.01	0.00	0.00	0.05	0.00
LV	1.59	0.00	0.00	0.75	0.00	0.83	0.00
LT	12.17	0.00	10.48	0.25	0.00	0.96	0.03
LU	0.35	0.00	0.00	0.06	0.00	0.16	0.02
HU	18.18	2.31	8.13	2.25	4.11	1.13	0.10
MT	0.35	0.00	0.01	0.31	0.00	0.03	0.00
NL	129.85	7.70	104.04	11.24	0.91	4.28	0.78
AT	23.61	3.41	10.16	2.35	0.00	6.46	0.36
PL	81.22	40.95	31.30	3.32	0.00	4.41	0.24
PT	22.25	1.24	13.94	3.38	0.00	3.43	0.10
RO	26.22	4.29	13.70	2.63	2.85	2.65	0.00
SI	3.14	1.00	0.01	0.14	1.38	0.59	0.01
SK	15.61	3.21	6.13	0.99	4.05	1.14	0.02
FI	35.68	2.79	18.35	1.25	5.68	5.86	0.25
SE	57.38	2.21	23.33	0.12	16.24	14.23	0.82

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.4.3 Transformation Input by Sector

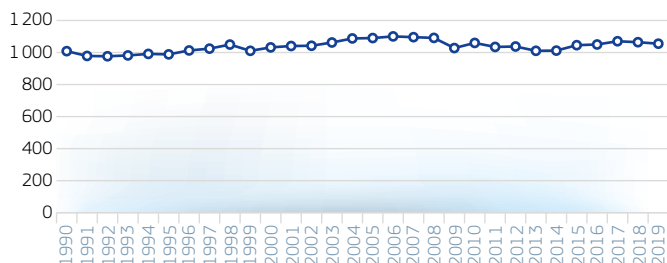
	2019					
	Total, All Sectors	Electricity producers	Heat producers	CHP producers	Refineries, Petroleum and sub-products	Other transformation input
Mtoe						
EU27_2020	1 350.3	410.0	17.7	146.0	688.4	88.2
Share (%)	100.0 %	30.4 %	1.3 %	10.8 %	51.0 %	6.5 %
BE	66.10	16.30	0.00	2.89	43.09	3.81
BG	19.46	8.97	0.23	1.64	7.75	0.87
CZ	34.70	15.72	0.72	5.35	8.44	4.47
DK	16.62	1.48	0.92	3.74	10.02	0.46
DE	259.89	82.44	3.15	25.77	124.53	24.00
EE	4.10	1.36	0.27	0.66	0.03	1.78
IE	7.97	4.15	0.00	0.28	3.28	0.26
EL	41.77	6.57	0.00	2.24	32.74	0.22
ES	130.80	41.59	0.00	4.42	80.99	3.81
FR	196.45	120.78	2.05	6.07	56.46	11.09
HR	5.17	1.02	0.05	0.88	3.09	0.13
IT	138.58	29.53	0.41	23.63	80.61	4.40
CY	1.07	1.05	0.00	0.01	0.00	0.01
LV	1.59	0.19	0.42	0.91	0.00	0.05
LT	12.17	0.22	0.66	0.65	10.47	0.17
LU	0.35	0.08	0.01	0.15	0.00	0.11
HU	18.18	6.56	0.66	1.18	8.11	1.68
MT	0.35	0.33	0.00	0.00	0.00	0.01
NL	129.85	11.61	0.66	8.92	103.49	5.17
AT	23.61	6.34	0.90	2.68	9.97	3.72
PL	81.22	2.38	2.66	33.40	30.93	11.85
PT	22.25	6.19	0.00	1.70	13.69	0.67
RO	26.22	8.87	0.48	2.71	13.38	0.78
SI	3.14	2.59	0.05	0.39	0.00	0.11
SK	15.61	1.84	0.27	4.61	6.05	2.84
FI	35.68	8.14	1.80	5.32	18.08	2.34
SE	57.38	23.63	1.32	5.82	23.24	3.38

2.4.4 Transformation Output – All Fuels

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	1 032.0	1 090.2	1 059.8	1 045.8	1 064.3	1 055.1
Index 2000	100 %	106 %	103 %	101 %	103 %	102 %
BE	54.28	53.70	54.78	51.94	50.65	54.10
BG	11.62	13.30	12.01	12.91	12.18	12.75
CZ	19.91	22.89	23.27	21.58	22.29	22.16
DK	15.59	14.06	14.18	16.83	17.71	16.15
DE	210.06	227.68	210.02	207.63	204.16	202.25
EE	1.87	2.14	2.55	2.49	3.06	2.63
IE	5.62	5.89	5.98	6.47	6.44	6.13
EL	29.13	28.38	28.76	35.62	41.32	37.85
ES	87.21	96.39	96.91	105.39	110.37	107.04
FR	154.62	151.28	139.32	126.19	122.33	116.92
HR	7.01	7.07	6.14	4.85	5.69	4.58
IT	129.85	141.64	131.20	111.22	111.19	115.34
CY	1.47	0.38	0.46	0.39	0.44	0.45
LV	1.18	1.47	1.29	1.12	1.33	1.28
LT	7.38	12.36	11.86	11.46	12.12	11.93
LU	0.11	0.43	0.47	0.30	0.27	0.26
HU	14.07	15.67	17.08	13.98	13.62	13.36
MT	0.16	0.19	0.18	0.12	0.18	0.19
NL	93.36	99.32	100.58	106.80	115.47	120.07
AT	17.16	18.53	18.59	19.51	19.48	20.36
PL	49.29	49.66	57.00	60.84	62.32	61.42
PT	17.04	18.73	17.75	21.36	20.67	19.00
RO	22.32	25.96	20.64	20.65	20.99	21.15
SI	1.57	1.54	1.69	1.53	1.69	1.69
SK	12.09	13.68	12.72	12.48	11.89	11.30
FI	25.53	26.94	31.14	26.95	30.14	30.18
SE	42.47	40.91	43.28	45.20	46.25	44.57

TRANSFORMATION OUTPUT – ALL FUELS – 1990-2019 (Mtoe)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.4.5 Transformation Output by Fuel

	2019						
	Transformation Output	Solid fossil fuels	Oil and petroleum products	Natural gas	Renewables and biofuels	Electricity	Heat
Mtoe							
EU27_2020	1 055.1	27.0	687.8	0.5	15.7	250.1	55.9
Share (%)	100.0 %	2.6 %	65.2 %	0.1 %	1.5 %	23.7 %	5.3 %
BE	54.10	0.89	43.05	0.00	0.49	8.06	0.74
BG	12.75	0.21	7.62	0.00	0.18	3.81	0.93
CZ	22.16	1.84	8.52	0.00	0.30	7.48	2.78
DK	16.15	0.00	10.02	0.23	0.23	2.54	3.14
DE	202.25	8.35	122.08	0.00	2.92	52.37	10.93
EE	2.63	0.02	1.11	0.00	0.00	0.65	0.52
IE	6.13	0.00	3.32	0.00	0.09	2.66	0.00
EL	37.85	0.00	33.41	0.00	0.20	4.18	0.05
ES	107.04	0.58	80.67	0.01	1.67	23.50	0.00
FR	116.92	2.21	56.08	0.10	3.46	49.08	4.04
HR	4.58	0.00	3.13	0.00	0.04	1.10	0.31
IT	115.34	1.21	81.26	0.04	1.28	25.27	5.53
CY	0.45	0.00	0.00	0.00	0.00	0.44	0.00
LV	1.28	0.00	0.00	0.00	0.05	0.55	0.68
LT	11.93	0.00	10.47	0.00	0.09	0.34	1.02
LU	0.26	0.00	0.00	0.00	0.00	0.16	0.10
HU	13.36	0.67	8.08	0.00	0.16	2.94	1.16
MT	0.19	0.00	0.00	0.00	0.01	0.18	0.00
NL	120.07	1.42	103.34	0.14	0.83	10.41	2.73
AT	20.36	0.95	9.83	0.00	0.24	6.38	2.03
PL	61.42	6.29	30.99	0.00	0.92	14.10	6.86
PT	19.00	0.00	13.65	0.00	0.28	4.57	0.50
RO	21.15	0.00	13.94	0.00	0.37	5.13	1.47
SI	1.69	0.00	0.00	0.00	0.09	1.38	0.22
SK	11.30	0.99	6.21	0.00	0.17	2.44	0.75
FI	30.18	0.62	18.33	0.01	0.43	5.90	4.43
SE	44.57	0.74	22.70	0.00	1.16	14.48	4.96

2.4.6 Transformation Output by Sector

	2019					
	Total, All Sectors	Electricity producers	Heat producers	CHP producers	Refineries, Petroleum and sub-products	Other transformation output
Mtoe						
EU27_2020	1 055.1	193.6	14.9	92.7	684.6	69.3
Share (%)	100.0 %	18.3 %	1.4 %	8.8 %	64.9 %	6.6 %
BE	54.10	6.60	0.00	1.85	42.90	2.76
BG	12.75	3.32	0.17	1.15	7.41	0.70
CZ	22.16	6.02	0.64	3.45	8.52	3.54
DK	16.15	1.47	0.91	3.19	10.02	0.56
DE	202.25	41.47	2.52	18.52	122.08	17.66
EE	2.63	0.53	0.20	0.45	0.03	1.42
IE	6.13	2.46	0.00	0.18	3.27	0.21
EL	37.85	3.43	0.00	0.79	33.41	0.21
ES	107.04	20.40	0.00	2.89	80.67	3.08
FR	116.92	46.71	1.70	4.15	56.08	8.28
HR	4.58	0.79	0.04	0.58	3.06	0.12
IT	115.34	15.83	0.35	14.40	81.26	3.50
CY	0.45	0.44	0.00	0.01	0.00	0.00
LV	1.28	0.19	0.36	0.68	0.00	0.05
LT	11.93	0.17	0.47	0.39	10.47	0.43
LU	0.26	0.06	0.01	0.12	0.00	0.08
HU	13.36	2.53	0.60	0.89	8.05	1.30
MT	0.19	0.18	0.00	0.00	0.00	0.01
NL	120.07	6.46	0.41	6.00	103.34	3.86
AT	20.36	5.21	0.77	2.13	9.83	2.42
PL	61.42	1.87	2.31	16.68	30.39	10.18
PT	19.00	3.83	0.00	1.12	13.46	0.59
RO	21.15	4.41	0.41	1.74	13.86	0.74
SI	1.69	1.26	0.04	0.28	0.00	0.11
SK	11.30	0.95	0.23	2.00	5.93	2.20
FI	30.18	3.96	1.53	4.46	18.05	2.19
SE	44.57	13.07	1.27	4.59	22.51	3.13

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.5 Final Energy

2.5.1 Available for Final Consumption

TOTAL

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	1 023.0	1 091.8	1 073.3	994.7	1 037.2	1 028.7
Index 2000	100 %	107 %	105 %	97 %	101 %	101 %
BE	40.82	41.57	43.09	40.86	41.08	40.05
BG	9.64	10.51	9.24	10.07	10.52	10.31
CZ	26.42	28.19	27.75	25.91	27.16	27.21
DK	14.32	14.67	15.02	13.57	14.18	13.98
DE	234.79	235.94	233.13	220.83	224.33	223.04
EE	2.69	3.14	2.98	2.84	3.07	2.98
IE	10.37	11.13	11.27	10.81	11.43	11.53
EL	18.46	20.82	19.16	16.55	15.87	16.42
ES	85.40	101.81	91.32	79.11	87.57	86.29
FR	156.74	167.10	161.69	157.55	156.12	155.72
HR	6.59	7.84	7.73	7.02	7.17	7.29
IT	128.77	139.59	131.73	117.63	119.83	118.66
CY	1.47	1.49	1.69	1.44	1.63	1.66
LV	3.26	4.05	4.06	3.79	4.11	3.97
LT	4.25	5.34	5.42	5.90	6.60	6.64
LU	3.24	4.10	3.93	3.57	3.78	3.83
HU	17.22	20.33	18.86	18.54	19.88	19.99
MT	0.32	0.40	0.42	0.46	0.53	0.56
NL	58.80	62.10	64.82	55.42	58.09	56.40
AT	23.58	27.35	27.77	27.27	27.89	28.35
PL	57.13	61.70	70.38	65.17	76.72	75.63
PT	19.54	20.94	18.98	16.85	16.93	17.58
RO	24.12	25.96	24.80	22.81	24.90	24.97
SI	4.79	5.44	5.28	4.85	5.13	5.04
SK	11.68	11.69	11.47	10.02	11.19	11.28
FI	23.73	25.26	26.30	24.04	26.39	25.87
SE	34.91	33.31	35.01	31.83	35.12	33.43

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

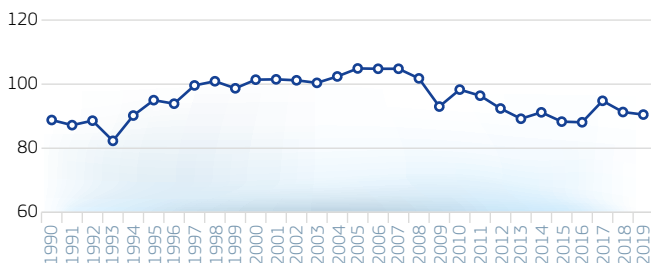
2.5.2 Final Non-Energy Consumption

TOTAL

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	101.4	104.9	98.3	88.3	91.3	90.5
Index 2000	100 %	103 %	97 %	87 %	90 %	89 %
BE	7.00	7.49	7.04	7.67	7.81	7.25
BG	0.98	0.85	0.42	0.60	0.49	0.47
CZ	2.14	3.01	2.88	2.50	2.96	2.97
DK	0.30	0.29	0.26	0.25	0.25	0.20
DE	25.30	24.66	22.58	21.26	21.75	21.64
EE	0.18	0.22	0.09	0.11	0.12	0.11
IE	0.68	0.52	0.34	0.22	0.24	0.24
EL	0.73	0.77	1.11	0.70	0.91	0.92
ES	9.49	8.43	7.11	4.35	5.23	5.35
FR	16.95	16.08	13.93	13.88	13.30	13.43
HR	0.66	0.68	0.60	0.53	0.49	0.57
IT	8.43	8.61	9.56	6.61	7.15	7.04
CY	0.09	0.07	0.09	0.02	0.04	0.04
LV	0.07	0.10	0.07	0.11	0.10	0.09
LT	0.66	0.73	0.66	1.12	1.13	1.20
LU	0.05	0.03	0.03	0.03	0.04	0.04
HU	1.59	2.17	1.97	1.91	2.21	2.12
MT	0.00	0.02	0.01	0.01	0.01	0.02
NL	11.33	13.58	14.37	12.22	12.79	11.99
AT	1.72	1.59	1.81	1.80	1.86	2.13
PL	4.37	4.60	4.97	5.63	5.65	5.56
PT	2.42	2.59	1.73	1.34	0.72	1.15
RO	1.89	2.63	2.06	1.12	1.02	1.14
SI	0.24	0.31	0.21	0.13	0.15	0.16
SK	1.38	1.28	1.05	1.05	1.26	1.00
FI	1.04	1.15	1.22	1.33	1.43	1.43
SE	1.75	2.42	2.12	1.78	2.18	2.30

FINAL NON-ENERGY CONSUMPTION – TOTAL – 1990-2019 (Mtoe)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

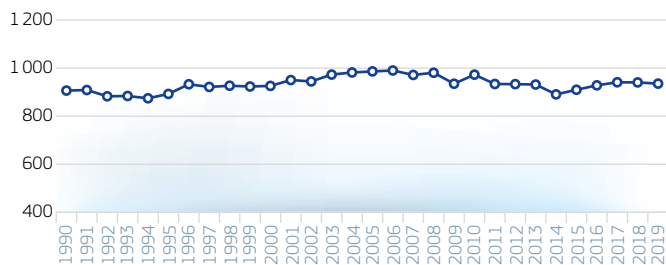
2.5.3 Final Energy Consumption

TOTAL

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	926.0	986.4	972.8	909.9	940.5	935.5
Index 2000	100%	107%	105%	98%	102%	101%
BE	33.64	33.96	35.25	33.10	33.18	32.55
BG	8.59	9.60	8.70	9.39	9.75	9.70
CZ	23.99	24.89	24.12	23.09	24.19	24.26
DK	14.02	14.73	14.85	13.53	13.84	13.60
DE	207.17	207.29	209.92	199.97	200.93	200.60
EE	2.41	2.82	2.88	2.75	2.89	2.83
IE	10.19	11.80	11.14	10.47	11.39	11.30
EL	17.91	20.23	18.37	15.74	15.15	15.40
ES	76.34	93.72	85.37	76.06	81.88	81.51
FR	145.13	150.75	146.26	141.11	140.56	139.38
HR	5.94	7.16	7.13	6.48	6.68	6.73
IT	119.74	131.51	123.05	112.11	114.30	113.12
CY	1.37	1.53	1.65	1.42	1.58	1.63
LV	3.23	3.96	4.00	3.68	4.02	3.93
LT	3.74	4.62	4.76	4.78	5.47	5.46
LU	3.18	4.05	3.90	3.54	3.74	3.79
HU	15.64	18.16	16.88	16.83	17.83	17.97
MT	0.32	0.38	0.40	0.46	0.51	0.55
NL	47.52	48.96	50.75	43.70	45.32	44.68
AT	21.81	25.73	25.96	25.47	26.02	26.22
PL	53.56	57.48	65.26	60.86	70.02	69.14
PT	17.21	18.26	17.27	15.55	16.15	16.35
RO	21.95	23.59	22.04	21.60	23.44	23.71
SI	4.54	5.11	5.05	4.72	4.95	4.86
SK	9.93	10.40	10.37	8.94	9.91	10.25
FI	23.28	24.01	25.03	23.05	25.08	24.67
SE	33.67	31.71	32.47	31.51	31.74	31.31

FINAL ENERGY CONSUMPTION – TOTAL –
1990-2019 (Mtoe)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.5.3 Final Energy Consumption

BY FUEL

	2019							
	Oil and petroleum products	Natural gas	Renewables and biofuels	Solid fossil fuels	Waste, non-renewable	Electricity	Heat	Manufactured gases, peat & products
Mtoe								
EU27_2020	345.7	198.9	101.7	19.8	4.5	213.7	46.0	5.2
Share (%)	37.0%	21.3%	10.9%	2.1%	0.5%	22.8%	4.9%	0.6%
BE	12.83	9.44	1.95	0.49	0.16	7.05	0.48	0.2
BG	3.63	1.14	1.42	0.31	0.06	2.59	0.54	0.0
CZ	6.75	5.19	3.24	1.47	0.30	5.02	2.03	0.3
DK	5.05	1.58	1.68	0.11	0.02	2.68	2.48	0.0
DE	72.03	52.36	16.62	3.42	1.27	42.95	9.63	2.3
EE	0.98	0.24	0.44	0.03	0.02	0.63	0.46	0.0
IE	5.92	1.97	0.49	0.23	0.06	2.44	0.00	0.2
EL	8.24	0.90	1.70	0.20	0.00	4.32	0.05	0.0
ES	39.48	14.21	7.20	0.37	0.00	20.17	0.00	0.1
FR	53.97	28.28	14.84	0.97	0.45	37.14	3.73	0.0
HR	2.74	1.09	1.15	0.08	0.03	1.39	0.24	0.0
IT	38.92	33.04	10.91	0.60	0.28	25.10	4.15	0.1
CY	0.97	0.00	0.20	0.02	0.03	0.41	0.00	0.0
LV	1.33	0.32	1.04	0.04	0.04	0.57	0.58	0.0
LT	2.21	0.58	0.72	0.17	0.00	0.91	0.85	0.0
LU	2.31	0.62	0.16	0.04	0.01	0.55	0.09	0.0
HU	5.88	5.49	1.85	0.18	0.12	3.47	0.96	0.0
MT	0.30	0.00	0.03	0.00	0.00	0.21	0.00	0.0
NL	13.98	16.59	1.99	0.08	0.04	9.42	2.13	0.5
AT	9.52	4.72	4.11	0.29	0.29	5.46	1.73	0.1
PL	25.43	9.32	6.42	9.04	0.82	12.07	5.58	0.5
PT	7.17	1.81	2.90	0.01	0.09	4.12	0.25	0.0
RO	8.26	5.63	3.83	0.66	0.15	3.92	1.10	0.2
SI	2.19	0.59	0.64	0.04	0.05	1.18	0.17	0.0
SK	2.76	2.56	1.24	0.43	0.19	2.17	0.55	0.3
FI	5.76	0.69	6.76	0.12	0.05	7.02	3.92	0.3
SE	7.06	0.48	8.21	0.35	0.00	10.71	4.33	0.2

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

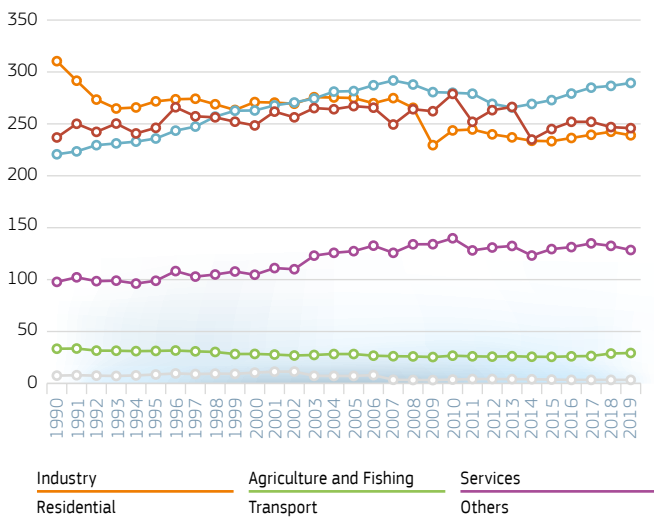
2.5.3 Final Energy Consumption

BY SECTOR

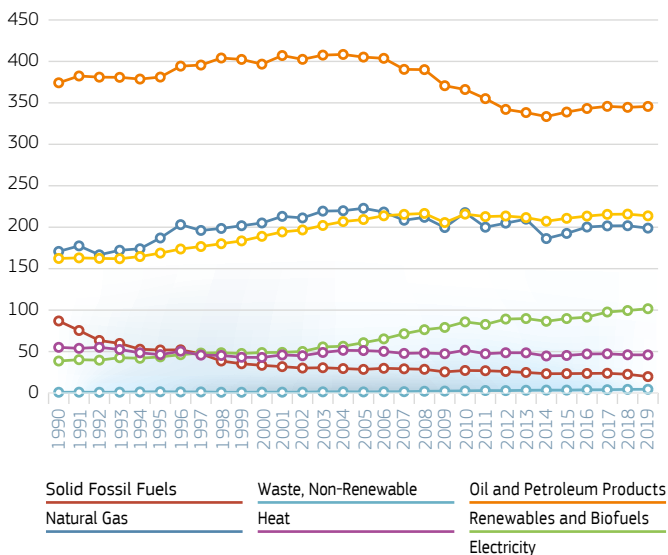
	2019					
	Industry	Transport	Residential	Services	Agriculture and Fishing	Others
Mtoe						
EU27_2020	239.0	289.4	245.9	128.5	29.3	3.4
Share (%)	25.6%	30.9%	26.3%	13.7%	3.1%	0.4%
BE	10.32	8.84	7.90	4.56	0.89	0.04
BG	2.67	3.41	2.16	1.27	0.19	0.00
CZ	6.61	6.78	7.01	3.19	0.64	0.04
DK	2.28	4.29	4.37	1.94	0.69	0.03
DE	55.71	56.35	57.73	27.16	3.59	0.06
EE	0.46	0.83	0.95	0.47	0.11	0.00
IE	2.29	4.12	2.88	1.76	0.25	0.00
EL	2.59	6.05	4.11	2.14	0.29	0.23
ES	19.97	32.94	14.74	10.66	2.91	0.29
FR	27.52	45.21	39.85	21.79	4.37	0.64
HR	1.17	2.24	2.24	0.84	0.24	0.00
IT	24.93	35.86	31.14	18.19	2.93	0.07
CY	0.23	0.69	0.36	0.28	0.05	0.02
LV	0.85	1.10	1.19	0.57	0.21	0.01
LT	1.11	2.15	1.45	0.63	0.11	0.01
LU	0.62	2.15	0.46	0.53	0.02	0.00
HU	4.46	5.07	5.68	2.06	0.68	0.04
MT	0.05	0.25	0.10	0.13	0.01	0.00
NL	13.37	10.93	9.31	6.88	4.12	0.08
AT	7.43	8.89	6.70	2.67	0.52	0.00
PL	16.53	22.78	18.20	7.81	3.81	0.00
PT	4.62	5.98	2.89	2.36	0.48	0.03
RO	6.66	6.57	7.75	1.96	0.56	0.21
SI	1.32	1.93	1.06	0.45	0.07	0.03
SK	3.46	2.79	2.64	1.22	0.13	0.00
FI	10.91	4.18	5.63	3.02	0.72	0.22
SE	10.89	7.02	7.36	4.02	0.66	1.35

2.5.3 Final Energy Consumption

BY SECTOR – EU27_2020 – 1990-2019 (Mtoe)



FINAL ENERGY CONSUMPTION – BY FUEL – EU27_2020 – 1990-2019 (Mtoe)



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.6 Electricity

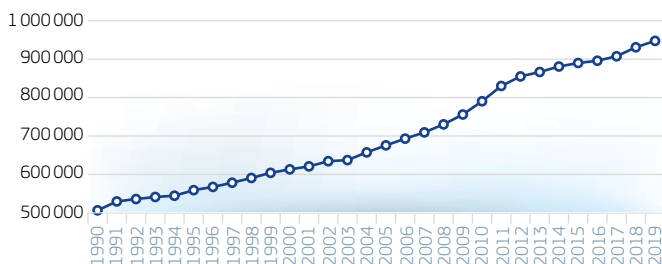
2.6.1 Installed Electricity Capacity

TOTAL

MW	2000	2005	2010	2015	2018	2019
EU27_2020*	613 221	675 657	790 332	889 840	930 757	947 338
Index 2000	100%	110%	129%	145%	152%	154%
BE	15 685	16 096	18 796	21 166	22 804	24 060
BG	11 085	12 260	10 031	10 913	11 339	11 233
CZ	15 323	17 406	20 073	21 866	22 295	22 012
DK	12 316	13 036	13 438	14 002	14 983	15 167
DE	118 884	128 497	162 924	203 257	228 795	231 821
EE	2 800	2 559	2 751	2 857	2 819	2 746
IE	4 709	6 102	8 143	9 680	10 982	11 137
EL	10 904	13 306	15 312	18 942	19 581	20 478
ES	53 922	76 566	101 740	106 758	103 737	109 970
FR	114 518	115 730	124 138	132 219	135 104	136 242
HR	2 067	3 867	4 103	4 768	5 006	4 712
IT	75 510	85 498	106 610	116 964	115 221	116 435
CY	988	1 125	1 560	1 756	1 794	1 819
LV	2 092	2 166	2 557	2 931	2 915	2 938
LT	5 716	4 556	3 570	3 587	3 354	3 378
LU	1 217	1 682	1 712	2 024	1 715	1 778
HU	8 282	8 586	8 993	8 634	9 256	9 914
MT	0	0	572	668	726	748
NL	21 062	21 800	26 688	33 877	35 110	37 086
AT	17 802	19 102	21 345	24 741	25 638	25 902
PL	30 559	32 257	33 360	37 327	43 046	43 440
PT	10 908	13 374	18 932	19 625	21 186	21 575
RO	16 820	18 951	19 912	23 830	23 553	20 908
SI	2 614	2 992	3 193	3 360	3 798	3 820
SK	7 454	8 257	7 873	7 782	7 625	7 724
FI	16 260	16 468	15 554	16 616	17 154	17 472
SE	33 724	33 419	36 452	39 691	41 223	42 824

INSTALLED ELECTRICITY CAPACITY – TOTAL – 1990-2019 (MW)

EU27_2020



* No complete EU-27 data available for 1990-2004.

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.6.1 Installed Electricity Capacity

BY FUEL

MW	2019						
	Installed Electricity Capacity	Combustible Fuels	Wind	Hydro	Nuclear	Solar	Others
EU27_2020	947 338	396 936	167 140	150 912	109 954	120 393	2 003
Share (%)	100,0 %	41,9 %	17,6 %	15,9 %	11,6 %	12,7 %	0,2 %
BE	24 060	8 213	3 863	1 414	5 930	4 637	3
BG	11 233	4 097	703	3 378	2 006	1 048	0
CZ	22 012	13 031	339	2 265	4 290	2 086	0
DK	15 167	7 977	6 103	7	0	1 080	0
DE	231 821	101 389	60 721	10 733	9 525	49 047	406
EE	2 746	2 303	316	6	0	121	0
IE	11 137	6 417	4 160	529	0	31	0
EL	20 478	10 643	3 589	3 412	0	2 834	0
ES	109 970	45 821	25 583	20 114	7 117	11 277	59
FR	136 242	19 791	16 427	25 869	63 130	10 795	230
HR	4 712	1 771	646	2 200	0	85	10
IT	116 435	61 284	10 679	22 541	0	20 865	1 066
CY	1 819	1 510	158	0	0	151	0
LV	2 938	1 270	78	1 587	0	3	0
LT	3 378	1 839	534	877	0	103	25
LU	1 778	152	136	1 330	0	160	0
HU	9 914	6 079	323	58	2 013	1 400	41
MT	748	595	0	0	0	154	0
NL	37 086	24 821	4 484	37	485	7 177	82
AT	25 902	6 378	3 224	14 597	0	1 702	1
PL	43 440	33 638	5 838	2 397	0	1 539	28
PT	21 575	8 160	5 223	7 262	0	901	29
RO	20 908	8 366	3 038	6 686	1 411	1 407	0
SI	3 820	1 512	5	1 351	688	264	0
SK	7 724	2 639	4	2 527	1 940	590	24
FI	17 472	8 899	2 284	3 273	2 794	222	0
SE	42 824	8 343	8 681	16 462	8 624	714	0

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.6.1 Installed Electricity Capacity*

RENEWABLES

MW	Total renewables	2019					
		Hydro	Wind	Solar Thermal	Solar PV	Geothermal	Tide, Wave and Ocean
EU27_2020	439 530	150 912	167 140	2 315	118 077	866	219
Share (%)	100,0%	34,3%	38,0%	0,5%	26,9%	0,2%	0,0%
BE	9 914	1 414	3 863	0	4 637	0	0
BG	5 129	3 378	703	0	1 048	0	0
CZ	4 691	2 265	339	0	2 086	0	0
DK	7 190	7	6 103	0	1 080	0	0
DE	120 541	10 733	60 721	2	49 045	40	0
EE	443	6	316	0	121	0	0
IE	4 720	529	4 160	0	31	0	0
EL	9 835	3 412	3 589	0	2 834	0	0
ES	56 978	20 114	25 583	2 304	8 973	0	5
FR	53 321	25 869	16 427	0	10 795	16	214
HR	2 941	2 200	646	0	85	10	0
IT	54 853	22 541	10 679	0	20 865	767	0
CY	309	0	158	0	151	0	0
LV	1 668	1 587	78	0	3	0	0
LT	1 514	877	534	0	103	0	0
LU	1 626	1 330	136	0	160	0	0
HU	1 784	58	323	0	1 400	3	0
MT	154	0	0	0	154	0	0
NL	11 698	37	4 484	0	7 177	0	0
AT	19 524	14 597	3 224	0	1 702	1	0
PL	9 774	2 397	5 838	0	1 539	0	0
PT	13 415	7 262	5 223	0	901	29	0
RO	11 131	6 686	3 038	9	1 398	0	0
SI	1 620	1 351	5	0	264	0	0
SK	3 121	2 527	4	0	590	0	0
FI	5 779	3 273	2 284	0	222	0	0
SE	25 857	16 462	8 681	0	714	0	0

* Net maximum capacity.

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.6.2 Gross Electricity Generation

TOTAL

TWh	2000	2005	2010	2015	2018	2019
EU27_2020	2 656.9	2 917.7	2 981.0	2 900.6	2 940.3	2 904.0
Index 2000	100 %	110 %	112 %	109 %	111 %	109 %
BE	84.01	86.76	95.63	69.36	74.61	93.31
BG	40.92	44.36	46.64	49.20	46.82	44.27
CZ	73.46	82.58	85.82	83.81	87.91	86.91
DK	36.01	36.25	38.86	28.94	30.37	29.53
DE	576.54	620.20	631.04	646.48	641.33	607.58
EE	8.51	10.21	12.96	10.15	12.36	7.62
IE	23.98	25.97	28.35	28.39	31.13	30.94
EL	53.84	60.02	57.40	51.87	53.26	48.63
ES	224.47	289.09	301.37	280.70	274.36	273.12
FR	539.95	576.06	569.15	578.87	581.16	570.29
HR	11.28	13.16	14.90	11.40	13.63	12.76
IT	275.86	302.59	301.28	282.40	289.11	293.20
CY	3.37	4.38	5.32	4.53	5.06	5.14
LV	4.14	4.91	6.63	5.53	6.72	6.44
LT	11.33	14.58	5.50	4.67	3.28	3.75
LU	1.17	4.13	4.59	2.77	2.20	1.91
HU	35.19	35.76	37.37	30.30	31.90	34.04
MT	1.92	2.24	2.11	1.30	1.96	2.08
NL	89.38	99.66	119.12	108.75	113.50	120.45
AT	61.24	66.83	71.11	65.28	68.60	74.22
PL	145.18	156.63	157.58	164.83	169.91	163.75
PT	43.76	46.57	54.09	52.41	59.64	53.15
RO	51.56	59.41	60.98	66.29	64.88	59.62
SI	13.62	15.12	16.44	15.10	16.33	16.10
SK	31.16	31.44	27.82	26.80	26.86	28.40
FI	69.78	70.34	80.36	68.35	69.98	68.38
SE	145.27	158.43	148.55	162.11	163.40	168.44

2.6.2 Gross Electricity Generation

BY FUEL

TWh	2019						
	Gross Electricity Generation	Solid Fossil Fuels, Peat, Oil Shale & Sands	Oil and petroleum products	Natural Gas & Manufactured Gases	Nuclear	Renewables and biofuel	Wastes non-RES
EU27_2020	2904.0	460.4	52.0	599.5	765.3	1005.3	21.5
Share (%)	100.0%	15.9%	1.8%	20.6%	26.4%	34.6%	0.7%
BE	93.31	0.1	0.07	27.94	43.52	20.39	1.29
BG	44.27	17.2	0.37	2.15	16.56	7.96	0.01
CZ	86.91	37.3	0.12	7.90	30.25	11.22	0.08
DK	29.53	3.3	0.24	2.10	0.00	23.08	0.79
DE	607.58	171.5	4.78	101.16	75.07	248.38	6.75
EE	7.62	4.3	0.03	1.06	0.00	2.14	0.06
IE	30.94	2.4	0.28	15.91	0.00	12.02	0.29
EL	48.63	12.1	5.57	14.50	0.00	16.15	0.29
ES	273.12	12.9	12.88	84.83	58.35	103.22	0.99
FR	570.29	3.6	5.91	41.55	399.01	117.77	2.40
HR	12.76	1.6	0.04	2.63	0.00	8.45	0.00
IT	293.20	18.8	10.15	144.10	0.00	117.68	2.43
CY	5.14	0.0	4.63	0.00	0.00	0.51	0.00
LV	6.44	0.0	0.00	3.25	0.00	3.19	0.00
LT	3.75	0.0	0.07	0.52	0.00	3.07	0.09
LU	1.91	0.0	0.00	0.19	0.00	1.64	0.08
HU	34.04	4.0	0.07	8.71	16.29	4.69	0.25
MT	2.08	0.0	0.03	1.83	0.00	0.22	0.00
NL	120.45	17.7	1.41	72.83	3.91	22.73	1.85
AT	74.22	1.5	0.69	13.48	0.00	57.76	0.79
PL	163.75	118.1	1.77	17.11	0.00	26.17	0.57
PT	53.15	5.5	1.25	17.26	0.00	28.83	0.27
RO	59.62	13.6	0.60	9.07	11.28	25.06	0.00
SI	16.10	4.5	0.01	0.53	5.82	5.24	0.01
SK	28.40	2.3	0.46	3.44	15.28	6.86	0.03
FI	68.38	7.4	0.31	4.45	23.87	31.88	0.51
SE	168.44	0.4	0.22	1.05	66.13	98.96	1.67

2.6.2 Gross Electricity Generation

RENEWABLES

TWh	2019							
	Renewables and biofuels	Wind	Hydro	Solar	Solid & liquid biofuels, renewable waste	Biogases	Geothermal	Tide, Wave and Ocean
EU27_2020	1 005.3	367.1	345.3	125.7	105.0	55.0	6.7	0.5
Share (%)	100.0 %	36.5 %	34.3 %	12.5 %	10.4 %	5.5 %	0.7 %	0.0 %
BE	20.39	9.73	1.18	4.25	4.29	0.95	0.00	0.00
BG	7.96	1.32	3.38	1.44	1.59	0.23	0.00	0.00
CZ	11.22	0.70	3.17	2.31	2.50	2.53	0.00	0.00
DK	23.08	16.15	0.02	0.96	5.32	0.64	0.00	0.00
DE	248.38	125.89	25.67	46.39	17.31	32.91	0.20	0.00
EE	2.14	0.69	0.02	0.07	1.32	0.04	0.00	0.00
IE	12.02	10.02	1.13	0.02	0.67	0.19	0.00	0.00
EL	16.15	7.27	4.05	4.43	0.02	0.38	0.00	0.00
ES	103.22	55.65	26.87	15.10	4.67	0.90	0.00	0.02
FR	117.77	34.72	61.57	12.23	6.06	2.59	0.13	0.48
HR	8.45	1.47	5.93	0.08	0.48	0.40	0.09	0.00
IT	117.68	20.20	48.15	23.69	11.29	8.28	6.07	0.00
CY	0.51	0.24	0.00	0.22	0.00	0.06	0.00	0.00
LV	3.19	0.15	2.11	0.00	0.58	0.35	0.00	0.00
LT	3.07	1.50	0.95	0.09	0.38	0.15	0.00	0.00
LU	1.64	0.28	0.95	0.13	0.21	0.07	0.00	0.00
HU	4.69	0.73	0.22	1.50	1.91	0.32	0.02	0.00
MT	0.22	0.00	0.00	0.21	0.00	0.01	0.00	0.00
NL	22.73	11.51	0.07	5.34	4.92	0.89	0.00	0.00
AT	57.76	7.48	43.83	1.70	4.13	0.61	0.00	0.00
PL	26.17	15.11	2.66	0.71	6.55	1.14	0.00	0.00
PT	28.83	13.67	10.24	1.34	3.10	0.26	0.22	0.00
RO	25.06	6.77	16.01	1.78	0.45	0.05	0.00	0.00
SI	5.24	0.01	4.68	0.30	0.16	0.09	0.00	0.00
SK	6.86	0.01	4.57	0.59	1.16	0.53	0.00	0.00
FI	31.88	6.02	12.41	0.15	12.93	0.36	0.00	0.00
SE	98.96	19.85	65.39	0.68	13.02	0.02	0.00	0.00

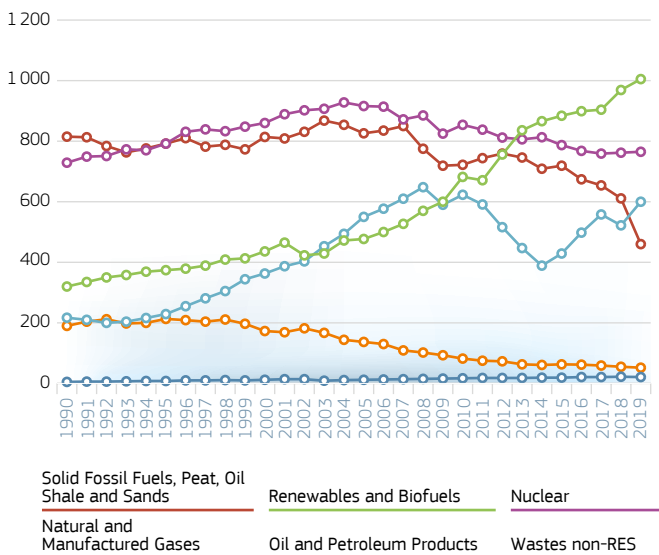
2.6.2 Gross Electricity Generation

EU27_2020 – BY FUEL

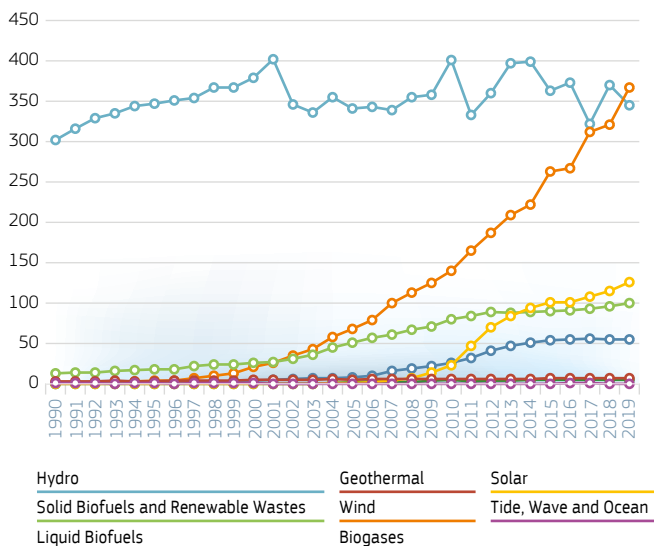
Share of Total (%)	2019					
	Solid fossil fuels, oil shale and sands, peat	Oil and petroleum products	Natural gas and manufactured gases	Nuclear	Renewables and biofuels	Others
1990	35,8	8,3	9,5	32,0	14,1	0,2
1991	35,1	8,8	9,1	32,3	14,5	0,3
1992	34,0	9,2	8,7	32,6	15,2	0,3
1993	33,2	8,6	8,9	33,6	15,5	0,3
1994	33,2	8,6	9,2	32,9	15,8	0,3
1995	32,9	8,8	9,5	32,9	15,5	0,3
1996	32,5	8,4	10,2	33,3	15,2	0,4
1997	31,2	8,1	11,2	33,5	15,5	0,4
1998	30,8	8,2	11,9	32,6	16,0	0,4
1999	29,9	7,6	13,3	32,8	16,0	0,4
2000	30,6	6,5	13,7	32,4	16,4	0,4
2001	29,6	6,2	14,1	32,5	17,0	0,5
2002	30,2	6,6	14,6	32,7	15,4	0,5
2003	30,6	5,9	16,0	32,0	15,1	0,3
2004	29,4	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	20,5	29,2	17,7	0,5
2008	25,9	3,4	21,6	29,5	19,0	0,5
2009	25,3	3,3	20,8	29,0	21,1	0,6
2010	24,2	2,8	20,9	28,7	22,9	0,6
2011	25,3	2,5	20,1	28,5	22,8	0,6
2012	25,9	2,5	17,6	27,7	25,8	0,6
2013	25,6	2,2	15,3	27,6	28,7	0,6
2014	24,8	2,1	13,6	28,4	30,3	0,7
2015	24,8	2,2	14,8	27,1	30,5	0,7
2016	23,1	2,1	17,1	26,3	30,8	0,7
2017	22,1	2,0	18,9	25,7	30,6	0,7
2018	20,8	1,9	17,8	25,9	33,0	0,7
2019	15,9	1,8	20,6	26,4	34,6	0,7

2.6.2 Gross Electricity Generation

EU27_2020 – BY FUEL – ALL FUELS – 1990-2019 (TWh)



EU27_2020 – BY FUEL – GROSS ELECTRICITY GENERATION, BY FUEL: RENEWABLES – 1990-2019 (TWh)



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.6.3 Market Share of the Largest Electricity Producer

%	2000	2005	2010	2015	2018	2019
BE	91.1	85.0	79.1	45.5	42.1	39.6
BG						
CZ	69.2	72.0	73.0	61.9	60.7	60.5
DK	36.0	33.0	46.0	37.2	32.7	32.4
DE	34.0	31.0	28.4	27.0	25.1	22.4
EE	91.0	92.0	89.0	71.7	74.0	76.4
IE	97.0	71.0	34.0	45.0	53.0	44.0
EL	97.0	97.0	85.1	60.3	51.1	51.3
ES	42.4	35.0	24.0	24.7	23.5	22.8
FR	90.2	89.1	86.5	74.9	67.2	65.6
HR		87.0	88.0	84.9	82.2	80.0
IT	46.7	38.6	28.0	28.0	24.0	23.0
CY	99.6	100.0	100.0	100.0	100.0	100.0
LV	95.8	92.7	88.0	86.5	86.3	86.4
LT	72.8	70.3	35.4	35.9	31.5	31.3
LU			85.4	51.7	20.8	18.1
HU	41.3	38.7	42.1	29.8	42.4	39.9
MT	100.0	100.0	100.0	100.0	37.4	37.4
NL						
AT	32.6					
PL	19.5	18.5	17.4	11.4	10.7	11.8
PT	58.5	53.9	47.2	45.8	47.5	46.8
RO		36.4	33.6	31.0	30.1	31.8
SI		50.1	56.3	55.4	53.7	53.0
SK	85.1	83.6	80.9	56.3	54.1	52.8
FI	23.3	23.0	26.6	17.0	16.8	15.8
SE	49.5	47.0	42.0	42.9	34.3	32.0

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.7 Solar and Wind Energy

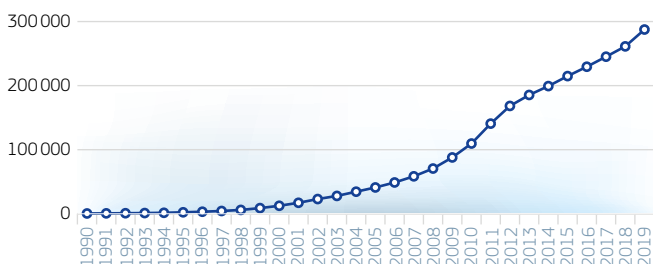
2.7.1 Solar and Wind Energy – Cumulative Capacity

TOTAL

MW	2000	2005	2010	2015	2018	2019
EU27_2020	12 472	41 041	109 606	214 859	261 234	287 533
Index 2000	100 %	329 %	879 %	1723 %	2095 %	2306 %
BE	14	169	1 919	5 308	7 268	8 500
BG	0	8	513	1 728	1 732	1 751
CZ	1	23	1 940	2 356	2 391	2 426
DK	2 391	3 131	3 809	5 859	7 113	7 183
DE	6 209	20 316	44 961	83 804	103 879	109 768
EE	0	31	108	300	342	437
IE	117	493	1 391	2 454	3 700	4 191
EL	226	492	1 500	4 695	5 529	6 423
ES	2 216	9 970	25 298	29 951	30 473	36 860
FR	45	703	6 956	17 436	24 591	27 222
HR	0	6	79	466	654	731
IT	382	1 669	9 386	28 038	30 338	31 545
CY	0	1	89	234	276	309
LV	2	26	30	68	80	81
LT	0	1	133	505	615	637
LU	14	58	73	180	254	296
HU	0	17	295	501	1 057	1 723
MT	0	0	1	75	131	154
NL	460	1 275	2 327	4 917	9 001	11 661
AT	55	846	1 105	3 426	4 588	4 926
PL	4	121	1 108	4 994	6 328	7 377
PT	84	1 066	3 930	5 384	5 840	6 124
RO	0	1	389	4 456	4 418	4 445
SI	0	0	12	244	252	269
SK	0	5	22	536	475	594
FI	40	86	204	1 022	2 181	2 506
SE	212	526	2 028	5 923	7 728	9 395

SOLAR AND WIND ENERGY – CUMULATIVE CAPACITY – TOTAL – 1990-2019 (MW)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

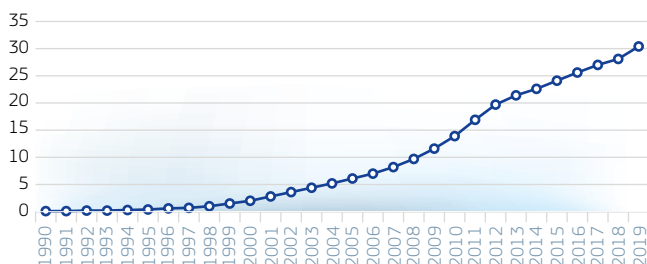
2.7.1 Solar and Wind Energy – Cumulative Capacity

SHARE OF TOTAL INSTALLED ELECTRICITY CAPACITY

%	2000	2005	2010	2015	2018	2019
EU27_2020	2.0	6.1	13.9	24.1	28.1	30.4
BE	0.09	1.05	10.21	25.08	31.87	35.33
BG	0.00	0.07	5.11	15.83	15.27	15.59
CZ	0.01	0.13	9.66	10.77	10.73	11.02
DK	19.41	24.02	28.34	41.85	47.47	47.36
DE	5.22	15.81	27.60	41.23	45.40	47.35
EE	0.00	1.21	3.93	10.50	12.13	15.90
IE	2.47	8.08	17.08	25.35	33.70	37.63
EL	2.07	3.70	9.80	24.79	28.24	31.36
ES	4.11	13.02	24.87	28.06	29.37	33.52
FR	0.04	0.61	5.60	13.19	18.20	19.98
HR	0.00	0.16	1.93	9.77	13.07	15.52
IT	0.51	1.95	8.80	23.97	26.33	27.09
CY	0.00	0.11	5.72	13.31	15.40	16.98
LV	0.10	1.20	1.17	2.33	2.75	2.76
LT	0.00	0.02	3.73	14.08	18.34	18.86
LU	1.15	3.48	4.27	8.90	14.78	16.62
HU	0.00	0.20	3.28	5.80	11.42	17.38
MT	0.00	0.00	0.14	11.23	18.09	20.54
NL	2.18	5.85	8.72	14.51	25.64	31.44
AT	0.31	4.43	5.18	13.85	17.90	19.02
PL	0.01	0.38	3.32	13.38	14.70	16.98
PT	0.77	7.97	20.76	27.43	27.56	28.39
RO	0.00	0.01	1.95	18.70	18.76	21.26
SI	0.00	0.00	0.38	7.26	6.64	7.05
SK	0.00	0.06	0.28	6.89	6.23	7.69
FI	0.25	0.52	1.31	6.15	12.71	14.34
SE	0.63	1.57	5.56	14.92	18.75	21.94

SOLAR AND WIND ENERGY – CUMULATIVE CAPACITY – SHARE OF TOTAL – 1990-2019 (%)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

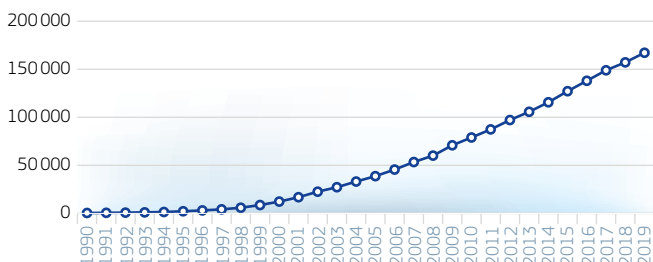
2.7.2 Wind Cumulative Installed Capacity

TOTAL

MW	2000	2005	2010	2015	2018	2019
EU27_2020	12297	38773	78989	127171	157172	167140
Index 2000	100 %	315 %	642 %	1034 %	1278 %	1359 %
BE	14	167	912	2176	3268	3863
BG	0	8	488	699	699	703
CZ	1	22	213	281	316	339
DK	2390	3128	3802	5077	6115	6103
DE	6095	18260	26955	44580	58721	60721
EE	0	31	108	300	310	316
IE	117	493	1390	2451	3676	4160
EL	226	491	1298	2091	2877	3589
ES	2206	9918	20693	22943	23405	25583
FR	38	690	5912	10298	14900	16427
HR	0	6	79	418	586	646
IT	363	1635	5794	9137	10230	10679
CY	0	0	82	158	158	158
LV	2	26	30	68	78	78
LT	0	1	133	436	533	534
LU	14	35	44	64	123	136
HU	0	17	293	329	329	323
MT	0	0	0	0	0	0
NL	447	1224	2237	3391	4393	4484
AT	50	825	1016	2489	3133	3224
PL	4	121	1108	4886	5766	5838
PT	83	1064	3796	4937	5172	5223
RO	0	1	389	3130	3032	3038
SI	0	0	0	5	5	5
SK	0	5	3	3	4	4
FI	38	82	197	1005	2041	2284
SE	209	522	2017	5819	7300	8681

WIND CUMULATIVE INSTALLED CAPACITY – TOTAL –
1990-2019 (MW)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.7.2 Wind Cumulative Installed Capacity

SHARE OF TOTAL INSTALLED ELECTRICITY CAPACITY

%	2000	2005	2010	2015	2018	2019
EU27_2020	2.0	5.7	10.0	14.3	16.9	17.6
BE	0.1	1.0	4.9	10.3	14.3	16.1
BG	0.0	0.1	4.9	6.4	6.2	6.3
CZ	0.0	0.1	1.1	1.3	1.4	1.5
DK	19.4	24.0	28.3	36.3	40.8	40.2
DE	5.1	14.2	16.5	21.9	25.7	26.2
EE	0.0	1.2	3.9	10.5	11.0	11.5
IE	2.5	8.1	17.1	25.3	33.5	37.4
EL	2.1	3.7	8.5	11.0	14.7	17.5
ES	4.1	13.0	20.3	21.5	22.6	23.3
FR	0.0	0.6	4.8	7.8	11.0	12.1
HR	0.0	0.2	1.9	8.8	11.7	13.7
IT	0.5	1.9	5.4	7.8	8.9	9.2
CY	0.0	0.0	5.3	9.0	8.8	8.7
LV	0.1	1.2	1.2	2.3	2.7	2.7
LT	0.0	0.0	3.7	12.2	15.9	15.8
LU	1.2	2.1	2.6	3.2	7.2	7.6
HU	0.0	0.2	3.3	3.8	3.6	3.3
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	2.1	5.6	8.4	10.0	12.5	12.1
AT	0.3	4.3	4.8	10.1	12.2	12.4
PL	0.0	0.4	3.3	13.1	13.4	13.4
PT	0.8	8.0	20.1	25.2	24.4	24.2
RO	0.0	0.0	2.0	13.1	12.9	14.5
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	13.1
SE	0.6	1.6	5.5	14.7	17.7	20.3

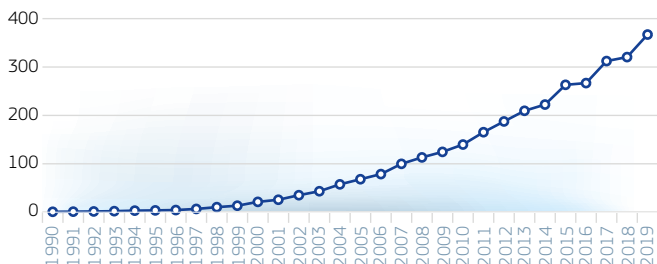
2.7.3 Wind Gross Electricity Production

TOTAL

TWh	2000	2005	2010	2015	2018	2019
EU27_2020	21.3	68.1	139.8	263.2	320.5	367.1
Index 2000	100 %	320 %	657 %	1237 %	1506 %	1725 %
BE	0.0	0.2	1.3	5.6	7.5	9.7
BG	0.0	0.0	0.7	1.5	1.3	1.3
CZ	0.0	0.0	0.3	0.6	0.6	0.7
DK	4.2	6.6	7.8	14.1	13.9	16.1
DE	9.4	27.8	38.5	80.6	110.0	125.9
EE	0.0	0.1	0.3	0.7	0.6	0.7
IE	0.2	1.1	2.8	6.6	8.6	10.0
EL	0.5	1.3	2.7	4.6	6.3	7.3
ES	4.7	21.2	44.3	49.3	50.9	55.6
FR	0.0	1.0	9.9	21.4	28.6	34.7
HR	0.0	0.0	0.1	0.8	1.3	1.5
IT	0.6	2.3	9.1	14.8	17.7	20.2
CY	0.0	0.0	0.0	0.2	0.2	0.2
LV	0.0	0.0	0.0	0.1	0.1	0.2
LT	0.0	0.0	0.2	0.8	1.1	1.5
LU	0.0	0.1	0.1	0.1	0.3	0.3
HU	0.0	0.0	0.5	0.7	0.6	0.7
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	0.8	2.1	4.0	7.5	10.5	11.5
AT	0.1	1.3	2.1	4.8	6.0	7.5
PL	0.0	0.1	1.7	10.9	12.8	15.1
PT	0.2	1.8	9.2	11.6	12.6	13.7
RO	0.0	0.0	0.3	7.1	6.3	6.8
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	5.8	6.0
SE	0.5	0.9	3.5	16.3	16.6	19.8

WIND GROSS ELECTRICITY PRODUCTION – TOTAL – 1990-2019 (TWh)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.7.4 Wind Penetration Level

IN TOTAL GROSS ELECTRICITY GENERATION

%	2000	2005	2010	2015	2018	2019
EU27_2020	0.8	2.3	4.7	9.1	10.9	12.6
BE	0.0	0.3	1.4	8.0	10.0	10.4
BG	0.0	0.0	1.5	3.0	2.8	3.0
CZ	0.0	0.0	0.4	0.7	0.7	0.8
DK	11.8	18.2	20.1	48.8	45.8	54.7
DE	1.6	4.5	6.1	12.5	17.1	20.7
EE	0.0	0.5	2.1	7.0	5.1	9.0
IE	1.0	4.3	9.9	23.2	27.8	32.4
EL	0.8	2.1	4.7	8.9	11.8	14.9
ES	2.1	7.3	14.7	17.6	18.6	20.4
FR	0.0	0.2	1.7	3.7	4.9	6.1
HR	0.0	0.1	0.9	7.0	9.8	11.5
IT	0.2	0.8	3.0	5.3	6.1	6.9
CY	0.0	0.0	0.6	4.9	4.4	4.6
LV	0.1	1.0	0.7	2.7	1.8	2.4
LT	0.0	0.0	4.1	17.4	34.9	40.0
LU	2.1	1.3	1.2	3.7	11.6	14.7
HU	0.0	0.0	1.4	2.3	1.9	2.1
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	0.9	2.1	3.4	6.9	9.3	9.6
AT	0.1	2.0	2.9	7.4	8.8	10.1
PL	0.0	0.1	1.1	6.6	7.5	9.2
PT	0.4	3.8	17.0	22.1	21.2	25.7
RO	0.0	0.0	0.5	10.7	9.7	11.4
SI	0.0	0.0	0.0	0.0	0.0	0.0
SK	0.0	0.0	0.0	0.0	0.0	0.0
FI	0.1	0.2	0.4	3.4	8.3	8.8
SE	0.3	0.6	2.3	10.1	10.2	11.8

2.7.5 Wind Capacity Factor

ANNUAL AVERAGE

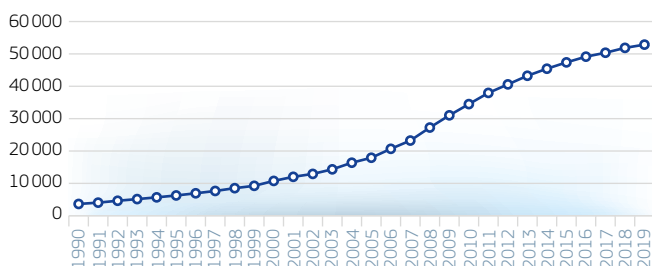
%	2000	2005	2010	2015	2018	2019
EU27_2020	21.6	22.0	22.1	25.9	25.5	27.5
BE	14.3	17.0	17.7	32.0	28.6	31.5
BG			17.5	26.0	23.6	23.4
CZ		12.1	19.7	25.5	24.1	25.8
DK	22.2	26.4	25.7	34.8	28.4	33.1
DE	19.2	19.0	17.9	22.6	23.4	25.9
EE		21.8	32.1	29.8	25.6	27.2
IE	26.2	28.2	25.3	33.5	29.4	30.1
EL	24.9	32.2	26.1	27.6	27.4	25.3
ES	26.8	26.7	26.7	26.9	27.2	27.2
FR	15.8	17.4	21.0	26.0	24.0	26.4
HR	0.0	20.8	22.0	23.8	28.5	28.4
IT	19.4	17.9	19.7	20.3	21.6	23.6
CY			4.8	17.6	17.5	18.9
LV		22.5	20.4	27.0	19.5	24.7
LT			21.1	23.2	26.8	35.1
LU	22.1	18.7	15.7	20.0	25.9	25.9
HU		7.4	22.8	26.3	23.1	28.2
MT						
NL	23.2	21.1	22.3	27.8	30.0	32.1
AT	16.7	20.2	25.4	24.3	24.1	29.0
PL	15.6	14.0	18.8	27.8	27.7	32.3
PT	25.3	20.8	30.2	29.4	30.5	32.7
RO			9.8	28.2	26.1	27.9
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	35.8	33.0
SE	27.3	22.4	21.6	35.1	28.5	28.6

2.7.6 Solar Collectors' Surface

1 000 m ²	2000	2005	2010	2015	2018	2019
EU27_2020	10 759	17 920	34 488	47 382	51 862	52 865
Index 2000	100 %	167 %	321 %	440 %	482 %	491 %
BE	41	77	371	661	748	766
BG	0	0	194	344	401	425
CZ	0	85	307	480	539	555
DK	243	286	480	1 016	1 831	1 915
DE	3 251	7 085	13 914	18 339	19 269	19 326
EE	0	0	0	0	0	0
IE	4	13	185	320	333	337
EL	2 941	3 047	4 100	4 390	4 691	4 868
ES	406	795	2 376	3 582	4 203	4 410
FR	513	583	1 447	2 917	3 218	3 302
HR	20	41	92	183	246	272
IT	271	680	2 415	3 724	4 196	4 344
CY	0	730	909	1 009	1 065	1 084
LV	0	0	0	0	0	22
LT	0	0	0	0	0	0
LU	0	6	29	56	66	69
HU	36	45	140	280	329	350
MT	0	0	40	70	73	74
NL	276	422	576	647	657	691
AT	2 202	3 083	4 559	5 261	5 123	5 050
PL	0	95	656	1 900	2 433	2 696
PT	238	289	752	1 121	1 288	1 348
RO	0	0	104	159	189	204
SI	101	107	178	224	225	224
SK	0	64	123	171	206	0
FI	10	16	31	50	66	73
SE	207	371	510	478	466	459

SOLAR THERMAL COLLECTORS –
1990-2019 (1 000 m²)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

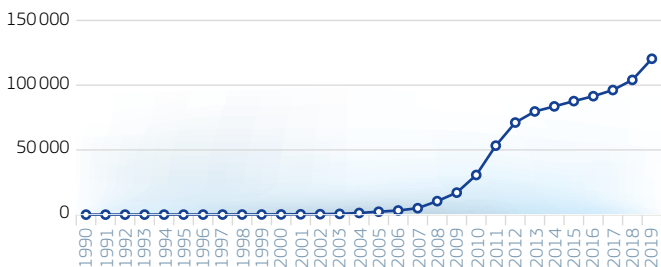
2.7.7 Solar Installed Capacity

TOTAL

MW	2000	2005	2010	2015	2018	2019
EU27_2020	175	2 268	30 616	87 688	104 062	120 393
BE	0	2	1 007	3 132	4 000	4 637
BG	0	0	25	1 029	1 033	1 048
CZ	0	1	1 727	2 075	2 075	2 086
DK	1	3	7	782	998	1 080
DE	114	2 056	18 006	39 224	45 158	49 047
EE	0	0	0	0	32	121
IE	0	0	1	2	24	31
EL	0	1	202	2 604	2 652	2 834
ES	10	52	4 605	7 008	7 068	11 277
FR	7	13	1 044	7 138	9 691	10 795
HR	0	0	0	48	68	85
IT	19	34	3 592	18 901	20 108	20 865
CY	0	1	7	76	118	151
LV	0	0	0	0	2	3
LT	0	0	0	69	82	103
LU	0	24	29	116	131	160
HU	0	0	2	172	728	1 400
MT	0	0	1	75	131	154
NL	13	51	90	1 526	4 608	7 177
AT	5	21	89	937	1 455	1 702
PL	0	0	0	108	562	1 539
PT	1	2	134	447	667	901
RO	0	0	0	1 326	1 386	1 407
SI	0	0	12	239	247	264
SK	0	0	19	533	471	590
FI	2	4	7	17	140	222
SE	3	4	11	104	428	714

SOLAR INSTALLED CAPACITY – TOTAL –
1990-2019 (MW)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

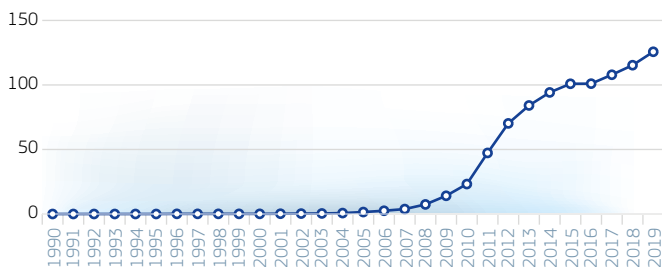
2.7.8 Solar Gross Electricity Production

TOTAL

TWh	2000	2005	2010	2015	2018	2019
EU27_2020	0.1	1.5	23.2	100.9	115.3	125.7
BE	0.0	0.0	0.6	3.1	3.9	4.2
BG	0.0	0.0	0.0	1.4	1.3	1.4
CZ	0.0	0.0	0.6	2.3	2.4	2.3
DK	0.0	0.0	0.0	0.6	1.0	1.0
DE	0.1	1.3	11.7	38.7	45.8	46.4
EE	0.0	0.0	0.0	0.0	0.0	0.1
IE	0.0	0.0	0.0	0.0	0.0	0.0
EL	0.0	0.0	0.2	3.9	3.8	4.4
ES	0.0	0.0	7.2	13.9	12.7	15.1
FR	0.0	0.0	0.6	7.8	10.9	12.2
HR	0.0	0.0	0.0	0.1	0.1	0.1
IT	0.0	0.0	1.9	22.9	22.7	23.7
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	0.6	1.5
MT	0.0	0.0	0.0	0.1	0.2	0.2
NL	0.0	0.0	0.1	1.1	3.7	5.3
AT	0.0	0.0	0.1	0.9	1.5	1.7
PL	0.0	0.0	0.0	0.1	0.3	0.7
PT	0.0	0.0	0.2	0.8	1.0	1.3
RO	0.0	0.0	0.0	2.0	1.8	1.8
SI	0.0	0.0	0.0	0.3	0.3	0.3
SK	0.0	0.0	0.0	0.5	0.6	0.6
FI	0.0	0.0	0.0	0.0	0.1	0.1
SE	0.0	0.0	0.0	0.1	0.4	0.7

SOLAR GROSS ELECTRICITY PRODUCTION – TOTAL –
1990-2019 (TWh)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.7.9 Solar Penetration Level

IN TOTAL GROSS ELECTRICITY GENERATION

%	2000	2005	2010	2015	2018	2019
EU27_2020	0.0	0.1	0.8	3.5	3.9	4.3
BE	0.0	0.0	0.6	4.4	5.2	4.6
BG	0.0	0.0	0.0	2.8	2.9	3.3
CZ	0.0	0.0	0.7	2.7	2.7	2.7
DK	0.0	0.0	0.0	2.1	3.1	3.3
DE	0.0	0.2	1.9	6.0	7.1	7.6
EE	0.0	0.0	0.0	0.0	0.2	1.0
IE	0.0	0.0	0.0	0.0	0.1	0.1
EL	0.0	0.0	0.3	7.5	7.1	9.1
ES	0.0	0.0	2.4	4.9	4.6	5.5
FR	0.0	0.0	0.1	1.3	1.9	2.1
HR	0.0	0.0	0.0	0.5	0.5	0.7
IT	0.0	0.0	0.6	8.1	7.8	8.1
CY	0.0	0.0	0.1	2.8	3.9	4.2
LV	0.0	0.0	0.0	0.0	0.0	0.0
LT	0.0	0.0	0.0	1.6	2.6	2.4
LU	0.0	0.4	0.5	3.7	5.4	6.8
HU	0.0	0.0	0.0	0.5	2.0	4.4
MT	0.0	0.0	0.0	7.3	9.6	10.2
NL	0.0	0.0	0.0	1.0	3.3	4.4
AT	0.0	0.0	0.1	1.4	2.1	2.3
PL	0.0	0.0	0.0	0.0	0.2	0.4
PT	0.0	0.0	0.4	1.5	1.7	2.5
RO	0.0	0.0	0.0	3.0	2.7	3.0
SI	0.0	0.0	0.1	1.8	1.6	1.9
SK	0.0	0.0	0.1	1.9	2.2	2.1
FI	0.0	0.0	0.0	0.0	0.1	0.2
SE	0.0	0.0	0.0	0.1	0.2	0.4

2.8 CHP

2.8.1 CHP Electricity

GENERATION AND CAPACITY

	CHP Electricity Generation			CHP Electrical Capacity		
	TWh			GW		
	2017	2018	2019	2017	2018	2019
EU27_2020	350.1	344.6	348.4	117.5	133.6	133.3
BE	12.5	11.4	12.8	2.3	2.3	2.4
BG	3.5	3.6	3.9	1.2	1.1	1.2
CZ	8.0	10.0	9.9	8.0	8.5	8.5
DK	11.8	11.4	10.6	5.8	5.9	5.1
DE	94.4	88.5	86.9	39.6	53.9	54.8
EE	1.1	1.1	1.0	0.0	0.2	0.2
IE	2.2	2.1	2.1	0.3	0.3	0.3
EL	2.2	2.4	2.2	0.3	0.4	0.4
ES	28.8	29.0	29.7	4.6	4.7	5.0
FR	16.6	17.3	18.1	6.3	6.6	6.6
HR	2.0	2.0	2.3	0.8	0.9	0.9
IT	41.0	39.7	40.5	8.4	8.6	8.6
CY	0.0	0.0	0.0	0.0	0.0	0.0
LV	2.8	3.1	2.6	1.3	1.3	1.3
LT	1.1	0.9	1.1	0.6	0.6	0.6
LU	0.3	0.4	0.4	0.1	0.1	0.1
HU	4.6	4.5	4.6	1.5	1.5	1.5
MT	0.2	0.2	0.2	0.1	0.1	0.1
NL	31.4	31.2	32.2	9.4	8.8	8.8
AT	9.5	9.4	9.7	2.9	2.8	2.9
PL	28.4	28.8	29.9	9.2	10.1	9.7
PT	6.4	6.2	6.4	1.2	1.2	1.3
RO	5.8	5.4	5.1	1.8	1.6	1.3
SI	1.3	1.3	1.2	0.4	0.4	0.4
SK		3.0	3.1		1.8	1.5
FI	21.7	22.8	22.5	6.5	6.4	6.4
SE	9.0	9.1	9.2	3.0	3.3	3.3

Source: Eurostat, July 2021

Methodology and Notes: [See Appendices](#)

2.8.2 CHP Heat

PRODUCTION AND CAPACITY

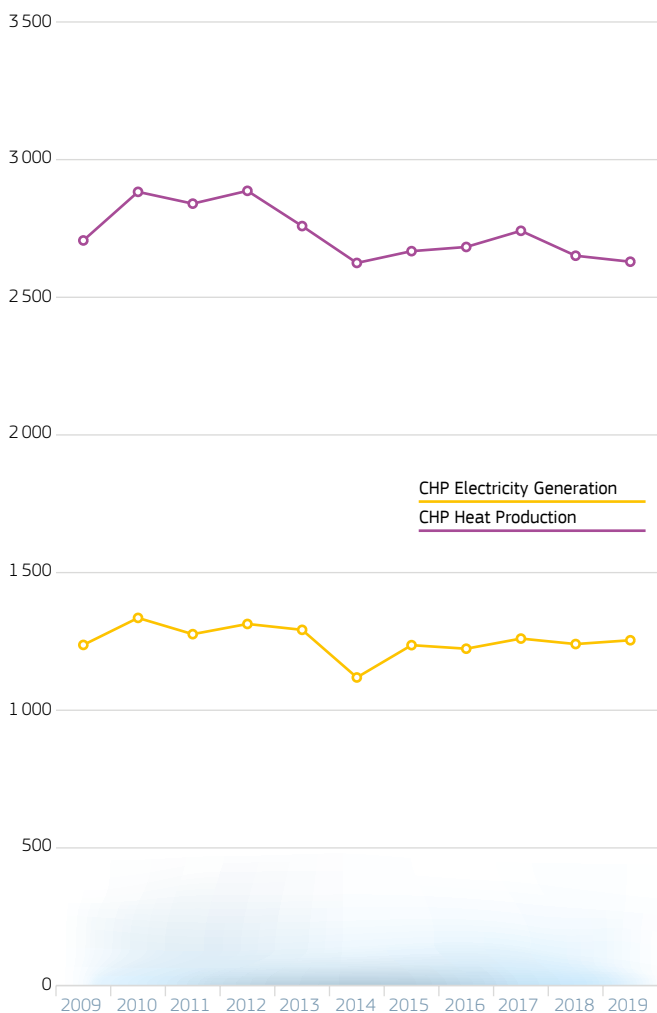
	CHP Heat Production			CHP Heat Capacity		
	PJ			GW		
	2017	2018	2019	2017	2018	2019
EU27_2020	2 741.4	2 650.9	2 629.2	278.3	280.5	285.4
BE	108.7	89.5	94.8	5.1	4.9	4.9
BG	40.1	40.1	39.6	4.6	4.3	4.4
CZ	103.5	102.1	99.1	22.1	21.7	20.4
DK	94.4	95.2	91.9	8.8	9.0	8.6
DE	703.2	676.1	663.2	101.3	98.0	96.5
EE	13.6	3.5	3.6	0.5	0.7	0.7
IE	11.8	11.6	11.2	0.6	0.6	0.6
EL	14.6	17.4	15.3	0.9	0.9	0.9
ES	139.2	141.9	143.2	9.8	10.3	10.7
FR	177.6	176.4	159.9	15.3	15.7	21.4
HR	18.8	15.8	17.6	2.2	2.2	2.2
IT	219.9	214.6	216.9	13.2	18.4	21.9
CY	0.1	0.6	0.1	0.0	0.0	0.0
LV	14.2	15.1	13.7	1.2	1.2	1.2
LT	10.4	10.2	11.0	1.5	1.5	1.5
LU	2.6	2.9	3.8	0.2	0.2	0.3
HU	25.2	24.7	27.5	2.9	3.0	3.1
MT	0.1	0.1	0.1	0.0	0.0	0.0
NL	180.5	173.8	174.2	16.6	15.9	15.4
AT	116.0	110.8	110.2	9.0	8.8	8.9
PL	253.3	247.1	248.5	24.2	25.1	24.5
PT	60.0	59.6	62.1	3.7	4.2	4.4
RO	47.0	42.2	62.1	5.5	4.9	4.4
SI	11.1	11.3	11.0	0.8	0.9	0.9
SK		32.1	34.9		3.7	3.4
FI	246.5	245.7	242.7	16.9	16.5	16.2
SE	92.0	90.6	94.0	7.9	7.8	7.9

Source: Eurostat, July 2021

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 EU27.

Source: Eurostat, July 2021

Methodology and Notes: [See Appendices](#)

2.9 Heat*

2.9.1 Gross Heat Generation

TOTAL

PJ	2000	2005	2010	2015	2018	2019
EU27_2020	2 044.7	2 487.6	2 579.7	2 248.3	2 278.1	2 239.9
Index 2000	100 %	122 %	126 %	110 %	111 %	110 %
BE	23.2	19.5	34.3	26.4	24.2	21.0
BG	50.8	52.1	57.1	48.7	36.2	36.6
CZ	139.2	138.9	147.0	119.4	116.4	114.7
DK	115.5	125.8	147.9	126.9	130.8	126.9
DE	315.9	485.8	508.6	448.8	461.9	451.1
EE	27.0	26.8	25.5	20.9	24.9	22.0
IE	0.0	0.0	0.0	0.0	0.0	0.0
EL	1.2	2.0	1.9	2.1	2.2	2.2
ES	0.0	0.0	0.0	0.0	0.0	0.0
FR	135.5	178.3	152.9	146.2	157.5	163.9
HR	11.5	13.3	12.5	11.1	12.7	13.2
IT	0.0	193.1	205.3	216.9	229.6	231.4
CY	0.0	0.0	0.0	0.1	0.1	0.1
LV	31.9	31.1	28.7	25.5	29.7	28.6
LT	42.8	42.9	40.0	31.9	34.6	31.7
LU	0.5	3.2	3.1	2.4	3.1	4.0
HU	69.2	63.6	53.0	50.2	47.2	45.4
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	172.4	178.5	159.9	118.8	100.2	105.1
AT	47.7	59.1	78.2	82.7	84.0	84.5
PL	340.7	335.5	335.1	280.1	294.1	286.2
PT	5.6	13.7	21.1	19.5	20.2	20.9
RO	189.7	127.7	99.1	76.6	71.5	61.4
SI	9.4	10.1	9.8	8.7	9.3	9.1
SK	36.8	52.5	48.5	36.6	31.3	31.3
FI	147.4	175.4	205.7	168.7	170.8	165.9
SE	131.0	158.8	204.6	179.1	185.8	182.6

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

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.9.1 Gross Heat Generation

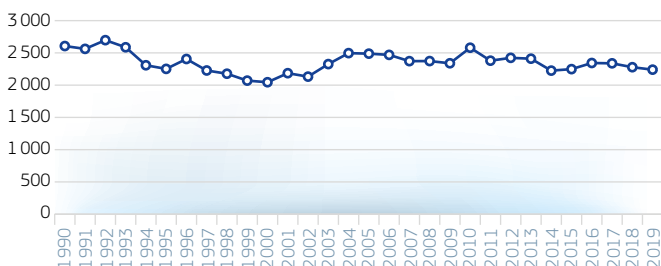
BY FUEL

PJ	2019						
	Gross Heat Generation	Solid fossil fuels, peat, oil shale & sands	Oil and petroleum products	Natural gas and manufactured gases	Nuclear	Renewables and biofuels	Wastes non-RES and others
EU27_2020	2 239.9	519.7	68.4	843.7	4.0	672.1	132.0
Share (%)	100.0 %	23.2 %	3.1 %	37.7 %	0.2 %	30.0 %	5.9 %
BE	21.0	0.0	0.0	16.8	0.0	2.3	1.9
BG	36.6	7.6	0.0	21.4	0.7	6.7	0.2
CZ	114.7	61.5	1.2	39.6	0.9	10.2	1.5
DK	126.9	12.1	1.1	18.7	0.0	80.4	14.5
DE	451.1	115.9	4.6	207.3	0.0	79.7	43.6
EE	22.0	2.4	0.2	6.2	0.0	12.6	0.5
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	163.9	5.1	0.9	64.9	0.0	77.0	16.1
HR	13.2	0.0	0.1	9.4	0.0	3.6	0.0
IT	231.4	1.9	28.5	153.2	0.0	41.9	5.9
CY	0.1	0.0	0.0	0.0	0.0	0.1	0.0
LV	28.6	0.1	0.0	13.1	0.0	15.4	0.0
LT	31.7	0.2	0.2	7.5	0.0	23.1	0.8
LU	4.0	0.0	0.0	1.4	0.0	2.6	0.0
HU	45.4	0.6	0.1	36.1	0.6	7.0	1.0
MT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NL	105.1	2.7	11.4	66.3	0.0	18.2	6.5
AT	84.5	4.5	2.3	30.4	0.0	41.2	6.1
PL	286.2	222.7	3.3	38.9	0.0	17.6	3.7
PT	20.9	0.0	0.2	20.7	0.0	0.0	0.0
RO	61.4	10.5	3.2	44.4	0.0	3.2	0.0
SI	9.1	4.4	0.1	2.8	0.0	1.7	0.1
SK	31.3	7.4	0.4	15.2	1.9	6.2	0.2
FI	165.9	52.6	7.9	22.5	0.0	77.1	5.9
SE	182.6	5.2	2.4	6.8	0.0	144.5	23.6

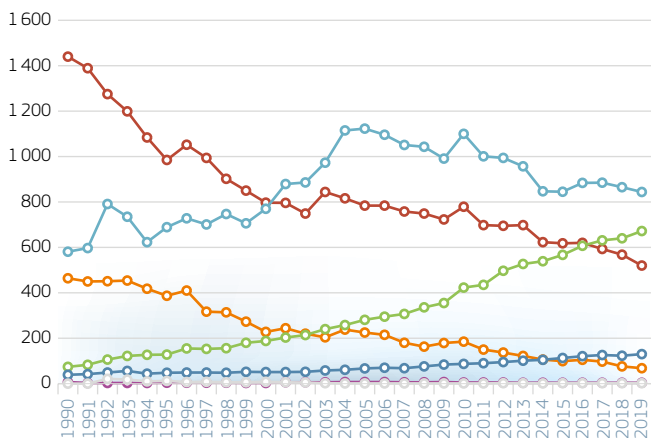
2.9.1 Gross Heat Generation

EU27_2020 – TOTAL – 1990-2019 (PJ)

EU27_2020



EU27_2020 – GROSS HEAT GENERATION – 1990-2019 (PJ)



Solid Fossil Fuels, Peat,
Oil Shale and Sands

Oil and Petroleum Products

Natural Gas and
Manufactured Gases

Nuclear

Renewables and Biofuels

Wastes non-RES

Others

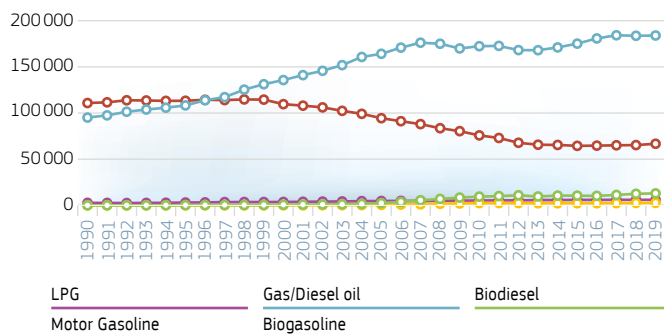
2.10 Transport

2.10.1 Fuels Final Consumption

PETROLEUM PRODUCTS AND BIOFUELS – EU27_2020

ktoe	Final consumption petroleum products	LPG	Motor gasoline	Gas/Diesel oil	Final consumption biofuels	Biogasoline	Biodiesel
1990	215 274	2 711.2	110 836.9	95 073.6	5.7	0	6
1995	230 162	3 055.4	113 290.5	108 274.6	217.1	25	188
1996	237 538	3 193.5	114 344.3	113 809.7	318.6	39	275
1997	241 239	3 484.3	114 022.9	117 205.5	434.0	55	370
1998	250 736	3 567.8	114 745.9	125 368.3	409.8	64	336
1999	256 496	3 547.0	114 541.2	131 208.7	456.9	60	384
2000	256 058	3 657.1	109 604.8	135 718.3	711.2	59	638
2001	259 939	3 848.5	107 993.6	141 067.1	838.0	66	754
2002	262 631	4 081.7	106 124.1	145 728.1	1 111.6	159	931
2003	265 393	4 223.1	102 384.3	151 906.0	1 378.3	243	1 132
2004	271 419	4 551.4	99 146.8	160 734.7	1 882.6	306	1 567
2005	270 540	4 686.8	94 407.2	164 165.9	3 139.6	543	2 450
2006	274 378	4 841.8	91 139.5	170 849.7	5 194.7	841	3 747
2007	276 938	4 822.8	87 989.0	176 196.6	7 263.2	1 091	5 462
2008	271 212	4 969.6	83 541.5	175 054.2	8 937.0	1 693	6 956
2009	262 763	5 152.8	80 363.9	169 944.4	10 563.6	2 070	8 418
2010	260 495	5 199.6	75 783.9	172 419.7	11 982.8	2 480	9 451
2011	258 432	5 404.7	72 978.5	172 730.3	12 583.0	2 536	10 031
2012	248 053	5 379.7	67 767.6	168 172.0	13 400.8	2 471	10 914
2013	245 721	5 688.3	65 675.3	168 074.6	11 901.4	2 295	9 603
2014	248 509	5 767.1	65 417.5	171 064.0	12 847.0	2 285	10 555
2015	252 070	5 900.1	64 461.1	175 195.6	12 847.4	2 327	10 516
2016	258 420	5 912.3	64 678.1	180 802.0	12 551.8	2 292	10 256
2017	262 794	5 998.9	65 052.3	184 248.4	13 687.8	2 422	11 264
2018	262 691	5 960.0	65 272.0	183 692	15 119.5	2 602	12 517
2019	264 786	5 994.0	66 707.0	183 989	15 655.4	2 706	12 949

EU27_2020 – FUELS CONSUMPTION IN THE TRANSPORT SECTOR – 1990-2019 (ktoe)



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.10.2 Biofuels

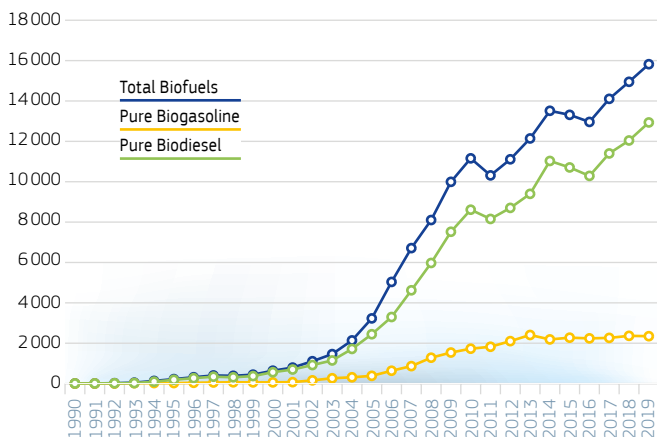
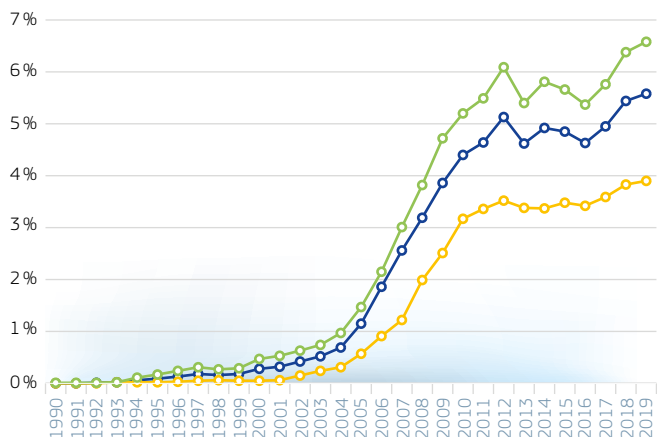
EU27_2020 – BY FUEL

	Production			Share in Transport Fuels		
	Total Biofuels	Pure biogasoline	Pure biodiesel	of liquid biofuels in total transport liquid fuels	of Biogasoline in Motor Gasoline %	of Biodiesel in Gas/Diesel Oil %
	ktoe				%	
1990	6	0	6	0,0 %	0,0 %	0,0 %
1991	7	0	7	0,0 %	0,0 %	0,0 %
1992	20	2	16	0,0 %	0,0 %	0,0 %
1993	47	18	25	0,0 %	0,0 %	0,0 %
1994	133	25	96	0,1 %	0,0 %	0,1 %
1995	222	25	188	0,1 %	0,0 %	0,2 %
1996	314	39	270	0,1 %	0,0 %	0,2 %
1997	403	54	340	0,2 %	0,0 %	0,3 %
1998	385	63	312	0,2 %	0,1 %	0,3 %
1999	442	59	371	0,2 %	0,1 %	0,3 %
2000	639	60	564	0,3 %	0,1 %	0,5 %
2001	792	71	696	0,3 %	0,1 %	0,5 %
2002	1 108	160	918	0,4 %	0,1 %	0,6 %
2003	1 460	264	1 145	0,5 %	0,2 %	0,7 %
2004	2 139	312	1 716	0,7 %	0,3 %	1,0 %
2005	3 229	383	2 445	1,1 %	0,6 %	1,5 %
2006	5 036	636	3 298	1,9 %	0,9 %	2,1 %
2007	6 711	865	4 621	2,6 %	1,2 %	3,0 %
2008	8 102	1 282	5 975	3,2 %	2,0 %	3,8 %
2009	9 994	1 538	7 521	3,9 %	2,5 %	4,7 %
2010	11 158	1 728	8 614	4,4 %	3,2 %	5,2 %
2011	10 314	1 824	8 156	4,6 %	3,4 %	5,5 %
2012	11 111	2 103	8 703	5,1 %	3,5 %	6,1 %
2013	12 143	2 408	9 399	4,6 %	3,4 %	5,4 %
2014	13 514	2 188	11 028	4,9 %	3,4 %	5,8 %
2015	13 313	2 274	10 707	4,8 %	3,5 %	5,7 %
2016	12 962	2 240	10 289	4,6 %	3,4 %	5,4 %
2017	14 106	2 264	11 401	5,0 %	3,6 %	5,8 %
2018	14 950	2 365	12 043	5,4 %	3,8 %	6,4 %
2019	15 822	2 348	12 936	5,6 %	3,9 %	6,6 %

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

2.10.2 Biofuels

EU27-2020 – PRODUCTION BIOFUELS –
1990-2019 (ktoe)EU27-2020 – BIOFUELS SHARE IN TRANSPORT LIQUID FUELS –
1990-2019 (%)

of Liquid Biofuels in Total Transport Liquid Fuels
 of Biogasoline in Motor Gasoline
 of Biodiesel in Gas/Diesel Oil

2.11 Energy Efficiency

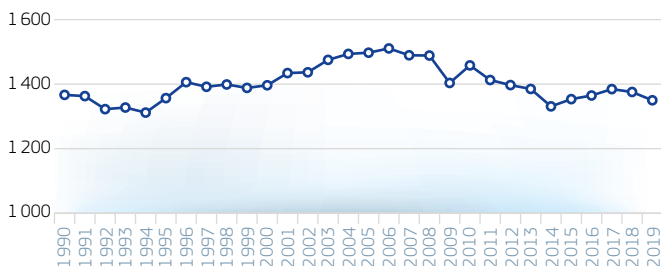
2.11.1 Primary Energy Consumption 2020-2030*

ALL FUELS

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	1 396.5	1 497.5	1 458.1	1 353.5	1 375.7	1 350.0
Index 2000	100 %	107 %	104 %	97 %	99 %	97 %
BE	52.4	51.6	54.2	46.0	46.9	49.1
BG	17.7	19.2	17.4	18.0	18.4	18.2
CZ	39.1	42.5	42.5	39.4	40.5	39.8
DK	19.1	19.4	20.0	16.9	17.4	16.8
DE	317.1	321.6	315.2	295.9	292.1	282.7
EE	4.6	5.0	5.6	5.3	6.1	4.7
IE	13.7	14.9	14.7	14.0	14.7	14.7
EL	27.2	30.3	27.2	23.4	22.6	22.3
ES	114.5	136.0	122.9	118.0	124.6	120.8
FR	239.1	260.9	254.4	244.3	238.9	235.3
HR	7.8	9.1	8.9	8.0	8.2	8.2
IT	166.1	180.8	167.3	149.1	147.2	145.9
CY	2.3	2.5	2.7	2.3	2.5	2.5
LV	3.8	4.5	4.6	4.3	4.7	4.6
LT	6.5	8.0	6.2	5.8	6.4	6.3
LU	3.6	4.8	4.6	4.1	4.5	4.5
HU	23.6	26.3	24.6	23.3	24.5	24.6
MT	0.8	0.9	0.9	0.8	0.8	0.9
NL	66.9	70.1	71.7	63.9	64.2	63.5
AT	27.5	32.7	32.9	31.7	31.8	32.2
PL	84.8	88.0	96.6	90.1	101.0	98.1
PT	23.0	24.9	22.7	21.6	22.7	22.1
RO	34.9	36.1	32.9	30.7	32.6	32.0
SI	6.3	7.2	7.0	6.3	6.7	6.5
SK	16.4	17.4	16.7	15.2	15.8	16.0
FI	31.6	33.6	35.4	31.2	32.7	32.1
SE	46.0	49.0	48.3	43.8	47.3	45.8

PRIMARY ENERGY CONSUMPTION 2020-2030 – 1990-2019 (Mtoe)

EU27_2020



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

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

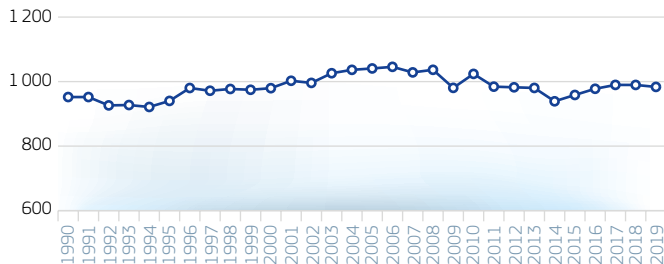
2.11.2 Final Energy Consumption 2020-2030*

ALL FUELS

Mtoe	2000	2005	2010	2015	2018	2019
EU27_2020	979.5	1 040.7	1 023.8	958.5	989.6	983.5
Index 2000	100%	106%	105%	98%	101%	100%
BE	37.7	36.6	37.9	35.9	36.4	35.8
BG	9.1	10.1	8.8	9.5	9.9	9.8
CZ	25.1	26.1	25.3	24.2	25.3	25.3
DK	14.7	15.5	15.5	14.2	14.6	14.4
DE	220.2	219.7	223.0	212.7	215.4	214.5
EE	2.4	2.9	2.9	2.8	3.0	2.9
IE	10.8	12.6	11.9	11.3	12.4	12.4
EL	18.7	21.0	19.1	16.6	15.9	16.2
ES	80.0	98.1	89.4	80.6	86.9	86.3
FR	154.8	160.1	154.0	148.4	146.8	145.4
HR	6.0	7.2	7.2	6.6	6.9	6.9
IT	124.8	137.2	128.5	116.2	116.3	115.4
CY	1.6	1.8	1.9	1.7	1.9	1.9
LV	3.3	4.0	4.1	3.8	4.2	4.1
LT	3.8	4.7	4.8	4.9	5.6	5.6
LU	3.5	4.5	4.3	4.0	4.3	4.4
HU	16.2	18.7	17.5	17.4	18.5	18.6
MT	0.4	0.5	0.5	0.6	0.7	0.7
NL	52.1	54.1	55.3	48.8	50.7	49.9
AT	23.7	27.9	28.0	27.5	27.8	28.3
PL	55.1	58.5	66.3	62.3	71.8	71.0
PT	18.0	19.0	18.1	16.0	16.9	17.1
RO	22.7	24.6	22.5	21.8	23.6	23.9
SI	4.6	5.1	5.1	4.7	5.0	4.8
SK	11.0	11.6	11.5	10.1	11.1	11.2
FI	24.4	25.2	26.2	24.2	25.8	25.3
SE	35.0	33.2	34.0	31.8	31.9	31.5

FINAL ENERGY CONSUMPTION 2020-2030 –
ALL FUELS – 1990-2019 (Mtoe)

EU27_2020



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

Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

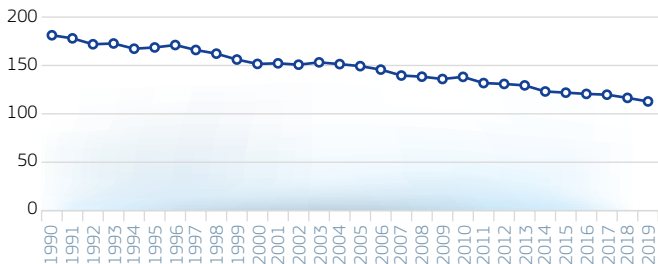
2.11.3 Energy Intensity

ALL FUELS

toe/M€ '2015	2000	2005	2010	2015	2018	2019
EU27_2020	152	149	138	122	116	113
Index 2000	100 %	98 %	91 %	80 %	77 %	74 %
BE	197	184	177	144	148	146
BG	692	566	430	411	377	361
CZ	363	330	292	248	231	223
DK	88	81	82	66	63	59
DE	135	133	123	106	99	95
EE	384	300	333	276	275	202
IE	101	84	80	55	48	45
EL	173	154	144	147	144	142
ES	149	148	128	121	117	112
FR	140	140	130	119	111	108
HR	241	225	210	191	177	175
IT	106	110	105	95	93	92
CY	186	166	151	142	138	134
LV	273	230	237	189	179	179
LT	367	312	233	194	194	185
LU	106	120	103	80	79	78
HU	306	279	261	224	211	202
MT	243	242	311	230	258	253
NL	157	160	150	128	119	116
AT	104	112	107	98	92	93
PL	353	315	274	223	219	203
PT	149	154	133	135	127	124
RO	400	320	252	199	179	169
SI	225	219	191	169	161	153
SK	410	338	252	204	196	191
FI	189	176	176	156	155	150
SE	149	142	128	107	109	105

ENERGY INTENSITY – ALL FUELS – 1990-2019 (toe/M€ '2015)

EU27_2020



Sources: Eurostat, DG Economic and Financial Affairs, April 2021

Methodology and Notes: [See Appendices](#)

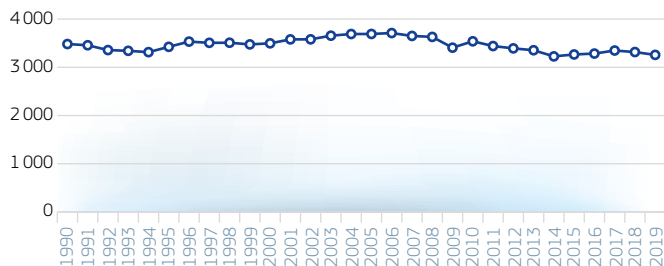
2.11.4 Energy Consumption per Capita

GROSS INLAND CONSUMPTION – ALL FUELS

kgoe/cap	2000	2005	2010	2015	2018	2019
EU27_2020	3497	3691	3539	3266	3316	3257
Index 2000	100%	106%	101%	93%	95%	93%
BE	5805	5664	5673	4810	4839	4956
BG	2275	2612	2414	2594	2695	2693
CZ	4017	4465	4346	3990	4113	4037
DK	3658	3663	3688	3069	3100	2982
DE	4168	4200	4135	3918	3805	3681
EE	3378	3872	4240	4138	4684	3641
IE	3804	3762	3311	3036	3095	3050
EL	2589	2831	2549	2218	2219	2196
ES	3065	3337	2796	2644	2798	2705
FR	4229	4416	4171	3913	3799	3743
HR	1877	2278	2201	2013	2113	2157
IT	3066	3273	2988	2562	2596	2598
CY	3511	3476	3370	2715	3047	3003
LV	1623	2040	2183	2205	2478	2422
LT	2093	2677	2254	2459	2789	2792
LU	8433	10411	9254	7425	7483	7395
HU	2468	2823	2655	2557	2731	2733
MT	2080	2324	2266	1724	1781	1830
NL	4934	5133	5198	4523	4507	4394
AT	3652	4192	4171	3927	3855	3917
PL	2332	2425	2672	2522	2814	2738
PT	2476	2614	2306	2274	2335	2327
RO	1637	1809	1725	1604	1720	1705
SI	3301	3786	3544	3151	3310	3230
SK	3284	3480	3286	3000	3132	3123
FI	6336	6654	6875	5967	6328	6204
SE	5384	5705	5402	4826	5045	4859

ENERGY CONSUMPTION PER CAPITA –
1990-2019 (kgoe/cap)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

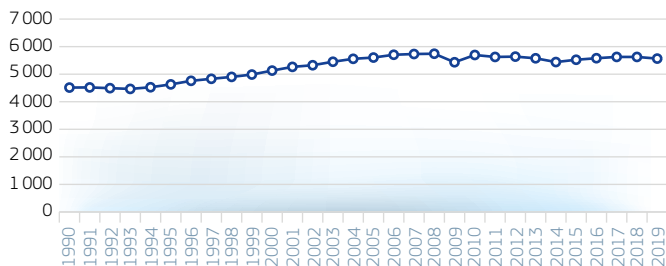
2.11.5 Final Electricity Consumption per Capita

ALL FUELS

kWh/cap	2000	2005	2010	2015	2018	2019
EU27_2020	5 130	5 603	5 696	5 523	5 626	5 566
Index 2000	100 %	109 %	111 %	108 %	110 %	108 %
BE	7 573	7 678	7 813	7 263	7 279	7 155
BG	2 961	3 345	3 652	3 933	4 240	4 303
CZ	4 804	5 256	5 183	5 169	5 476	5 487
DK	6 089	6 184	5 792	5 444	5 337	5 372
DE	5 884	6 332	6 504	6 342	6 192	6 017
EE	3 579	4 445	5 181	5 211	5 679	5 523
IE	5 371	5 923	5 583	5 513	5 771	5 796
EL	4 005	4 640	4 777	4 677	4 606	4 681
ES	4 657	5 595	5 266	4 995	5 111	4 997
FR	6 357	6 735	6 868	6 546	6 521	6 430
HR	2 631	3 344	3 686	3 631	3 940	3 963
IT	4 795	5 199	5 057	4 729	4 846	4 880
CY	4 339	5 402	5 960	4 830	5 397	5 393
LV	1 880	2 547	2 931	3 253	3 444	3 465
LT	1 764	2 377	2 652	3 198	3 702	3 773
LU	13 319	13 340	13 132	11 056	10 730	10 420
HU	2 880	3 203	3 416	3 682	4 031	4 125
MT	4 031	4 614	4 406	4 808	5 016	5 051
NL	5 993	6 403	6 501	6 163	6 326	6 339
AT	6 441	7 011	7 176	7 123	7 191	7 169
PL	2 563	2 751	3 122	3 363	3 699	3 698
PT	3 744	4 414	4 718	4 416	4 660	4 659
RO	1 511	1 817	2 036	2 166	2 333	2 347
SI	5 293	6 379	5 835	6 199	6 634	6 574
SK	4 077	4 253	4 477	4 495	4 765	4 622
FI	14 636	15 421	15 604	14 346	15 013	14 797
SE	14 526	14 504	14 048	12 810	12 605	12 176

FINAL ELECTRICITY CONSUMPTION PER CAPITA –
ALL FUELS – 1990-2019 (kWh/cap)

EU27_2020



Source: Eurostat April 2021

Methodology and Notes: [See Appendices](#)

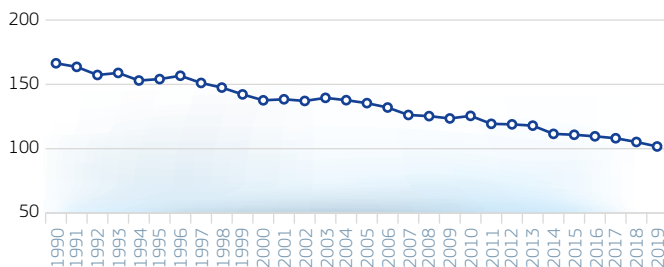
2.11.6 Primary Energy Intensity 2020-2030*

ALL FUELS

toe/M€ '2015	2000	2005	2010	2015	2018	2019
EU27_2020	138	135	125	111	105	102
Index 2000	100%	98%	91%	81%	76%	74%
BE	159	142	139	110	108	111
BG	653	539	416	393	363	347
CZ	344	308	273	233	215	206
DK	81	77	78	62	59	55
DE	124	123	113	98	91	87
EE	362	281	315	257	256	190
IE	96	80	78	53	46	44
EL	150	138	126	133	125	121
ES	131	132	114	110	106	101
FR	130	130	122	111	103	100
HR	222	208	197	178	167	163
IT	100	104	98	90	86	85
CY	167	145	137	127	121	117
LV	267	213	221	174	174	165
LT	323	275	199	155	154	145
LU	104	119	102	80	78	77
HU	287	258	242	207	193	186
MT	134	139	121	75	70	70
NL	115	113	108	93	86	84
AT	98	107	101	92	86	86
PL	335	299	259	209	206	191
PT	132	137	121	120	116	110
RO	379	298	237	192	173	163
SI	217	209	185	163	152	144
SK	378	315	237	191	181	179
FI	179	167	168	148	144	139
SE	140	131	118	96	97	93

PRIMARY ENERGY INTENSITY – ALL FUELS –
1990-2019 (toe/M€ '2015)

EU27_2020



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

Sources: Eurostat, DG Economic and Financial Affairs, April 2021

Methodology and Notes: [See Appendices](#)

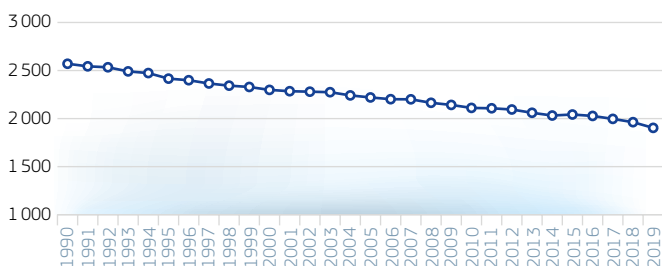
2.11.7 Greenhouse Gas (GHG) Intensity of Energy

ALL FUELS

kg CO ₂ /toe	2000	2005	2010	2015	2018	2019
EU27_2020	2 299	2 220	2 111	2 042	1 963	1 903
Index 2000	100 %	97 %	92 %	89 %	85 %	83 %
BE	1 786	1 787	1 618	1 610	1 551	1 511
BG	2 198	2 286	2 582	2 453	2 175	2 134
CZ	2 959	2 651	2 475	2 349	2 257	2 177
DK	2 748	2 562	2 406	1 989	1 881	1 732
DE	2 541	2 402	2 370	2 411	2 287	2 216
EE	3 191	3 200	3 349	2 913	2 889	2 545
IE	2 957	2 956	2 687	2 593	2 477	2 354
EL	3 470	3 455	3 286	2 955	2 823	2 600
ES	2 340	2 388	2 046	2 073	1 942	1 865
FR	1 487	1 405	1 325	1 199	1 188	1 181
HR	2 157	2 196	2 081	1 950	1 892	1 868
IT	2 633	2 574	2 426	2 305	2 204	2 166
CY	2 635	2 804	2 738	2 663	2 477	2 500
LV	1 914	1 773	1 838	1 639	1 604	1 604
LT	1 485	1 462	1 849	1 564	1 516	1 524
LU	2 212	2 405	2 312	2 134	2 023	2 044
HU	2 237	2 010	1 876	1 755	1 739	1 730
MT	3 162	2 849	2 760	2 300	1 821	1 855
NL	2 133	2 065	2 075	2 109	2 008	1 975
AT	1 891	1 945	1 706	1 574	1 605	1 586
PL	3 606	3 583	3 366	3 329	3 190	3 096
PT	2 361	2 332	2 004	2 051	2 018	1 856
RO	2 679	2 604	2 312	2 498	2 377	2 295
SI	2 261	2 185	2 258	2 062	2 071	2 031
SK	2 029	1 937	1 807	1 677	1 655	1 577
FI	1 640	1 542	1 638	1 244	1 208	1 142
SE	1 030	934	938	814	720	703

GHG INTENSITY OF ENERGY – 1990-2019 (kg CO₂/toe)

EU27_2020



2.12 Renewable Energy (RES) Indicators

2.12.1 Renewable Energy (RES) Shares*

OVERALL AND HEATING & COOLING

	Overall RES with Aviation Cap**				RES-H&C Renewable Heating & Cooling			
%	2005	2010	2018	2019	2005	2010	2018	2019
EU27_2020	10,2	14,4	18,9	19,7	12,4	17,0	21,2	22,1
BE	2,3	6,0	9,5	9,9	3,4	6,7	8,3	8,3
BG	9,2	13,9	20,6	21,6	14,3	24,3	33,3	35,5
CZ	7,1	10,5	15,1	16,2	10,8	14,1	20,6	22,7
DK	16,0	21,9	35,4	37,2	22,8	30,4	45,5	48,0
DE	7,2	11,7	16,7	17,4	7,7	12,1	14,1	14,6
EE	17,4	24,6	30,0	31,9	32,2	43,2	53,7	52,3
IE	2,8	5,8	10,9	12,0	3,4	4,3	6,3	6,3
EL	7,3	10,1	18,1	19,7	13,4	18,7	30,3	30,2
ES	8,4	13,8	17,5	18,4	9,4	12,6	17,6	18,9
FR	9,6	12,7	16,4	17,2	12,4	16,2	21,4	22,5
HR	23,7	25,1	28,0	28,5	30,0	32,9	36,7	36,8
IT	7,5	13,0	17,8	18,2	8,2	15,6	19,3	19,7
CY	3,1	6,2	13,9	13,8	10,0	18,8	37,2	35,1
LV	32,3	30,4	40,0	41,0	42,7	40,7	55,4	57,8
LT	16,8	19,6	24,7	25,5	29,3	32,5	46,0	47,4
LU	1,4	2,9	9,0	7,0	3,6	4,7	8,5	8,7
HU	6,9	12,7	12,5	12,6	9,9	18,1	18,2	18,1
MT	0,1	1,0	8,0	8,5	1,0	7,3	23,3	25,7
NL	2,5	3,9	7,3	8,8	2,4	3,1	6,1	7,1
AT	24,4	31,2	33,8	33,6	22,8	31,0	34,2	33,8
PL	6,9	9,3	11,5	12,2	10,2	11,8	15,1	16,0
PT	19,5	24,2	30,2	30,6	32,1	33,8	40,9	41,6
RO	17,6	22,8	23,9	24,3	17,9	27,2	25,4	25,7
SI	19,8	21,1	21,4	22,0	26,4	29,5	32,3	32,2
SK	6,4	9,1	11,9	16,9	5,0	7,9	10,6	19,7
FI	28,8	32,3	41,2	43,1	39,1	44,0	54,6	57,5
SE	40,3	46,6	54,7	56,4	49,8	58,5	65,3	66,1

* 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 2021

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	2018	2019	2005	2010	2018	2019
EU27_2020	16,4	21,3	32,2	34,1	2,0	5,5	8,3	8,9
BE	2,4	7,2	18,9	20,8	0,7	4,8	6,7	6,8
BG	8,7	12,4	22,4	23,5	0,9	1,5	8,1	7,9
CZ	3,8	7,5	13,7	14,0	1,1	5,2	6,6	7,8
DK	24,6	32,7	62,4	65,4	0,4	1,2	6,9	7,2
DE	10,6	18,2	37,9	40,8	4,0	6,4	7,9	7,7
EE	1,1	10,3	19,7	22,0	0,2	0,4	3,3	5,1
IE	7,2	15,6	33,3	36,5	0,1	2,5	7,2	8,9
EL	8,2	12,3	26,0	31,3	0,1	1,9	4,1	4,0
ES	19,1	29,8	35,1	36,9	1,3	5,0	6,9	7,6
FR	13,7	14,8	21,1	22,4	2,1	6,6	9,0	9,2
HR	35,2	37,5	48,1	49,8	1,0	1,1	2,6	5,9
IT	16,3	20,1	33,9	35,0	1,0	4,9	7,7	9,0
CY	0,0	1,4	9,4	9,8	0,0	2,0	2,7	3,3
LV	43,0	42,1	53,5	53,4	2,4	4,0	4,7	5,1
LT	3,8	7,4	18,4	18,8	0,7	3,8	4,3	4,0
LU	3,2	3,8	9,1	10,9	0,2	2,1	6,6	7,7
HU	4,4	7,1	8,3	10,0	1,0	6,2	7,7	8,0
MT	0,0	0,0	7,7	8,0	0,0	0,0	8,0	8,7
NL	6,3	9,6	15,2	18,2	0,5	3,4	9,6	12,5
AT	62,9	66,4	74,2	75,1	5,1	10,7	9,9	9,8
PL	2,7	6,6	13,0	14,4	1,7	6,6	5,7	6,1
PT	27,7	40,6	52,2	53,8	0,5	5,5	9,0	9,1
RO	28,8	30,4	41,8	41,7	1,9	1,4	6,3	7,8
SI	28,7	32,2	32,3	32,6	0,8	3,1	5,5	8,0
SK	15,7	17,8	21,5	21,9	1,7	5,3	7,0	8,3
FI	26,9	27,7	36,8	38,1	0,9	4,4	17,7	21,3
SE	50,9	55,8	66,2	71,2	6,6	9,6	29,7	30,3

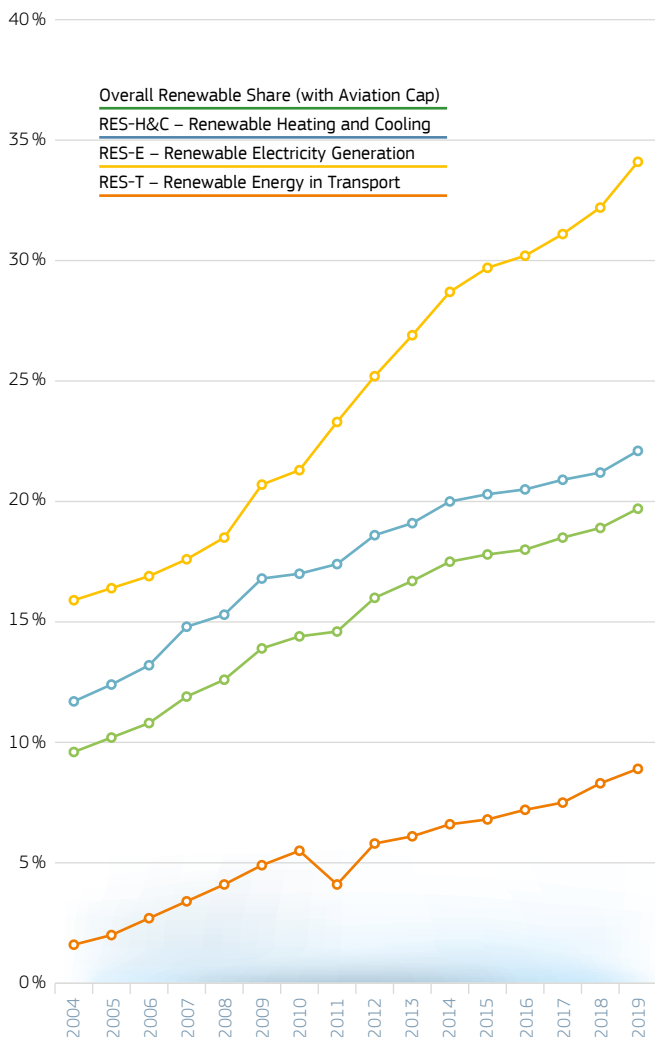
* Of the Gross Final Energy.

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

Source: Eurostat-RES SHARES March 2021

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 2021

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	2019	2020	2021
EU27_2020	0.99	1.15	1.19	1.32	1.16	1.29
BE	0.95	1.14	1.16	1.44	1.29	1.42
BG	0.84	0.98	1.13	1.11	0.92	0.98
CZ	0.99	1.21	1.15	1.23	1.06	1.13
DK	1.05	1.21	1.28	1.39	1.22	1.34
DE	1.07	1.20	1.18	1.25	1.11	1.31
EE	0.91	1.10	1.08	1.33	1.10	1.19
IE	1.02	1.22	1.26	1.32	1.20	1.32
EL	0.97	1.24	1.18	1.38	1.19	1.30
ES	0.91	1.07	1.12	1.21	1.07	1.18
FR	1.00	1.14	1.15	1.44	1.26	1.37
HR			1.16	1.32	1.16	1.29
IT	1.08	1.21	1.41	1.48	1.32	1.42
CY	0.83	1.00	1.23	1.23	1.11	1.20
LV	0.92	1.06	1.06	1.20	1.05	1.17
LT	0.89	1.02	1.07	1.14	1.00	1.10
LU	0.85	0.99	1.02	1.10	0.97	1.14
HU	0.96	1.16	1.16	1.23	1.06	1.19
MT	0.96	1.04	1.27	1.25	1.24	1.21
NL	1.00	1.15	1.24	1.36	1.24	1.39
AT	0.97	1.10	1.12	1.21	1.05	1.16
PL	0.84	1.06	1.08	1.17	1.01	1.12
PT	1.00	1.15	1.19	1.36	1.24	1.36
RO	0.83	1.03	1.20	1.20	0.96	1.08
SI	1.01	1.15	1.18	1.25	1.06	1.19
SK	1.10	1.11	1.14	1.23	1.07	1.16
FI	0.99	1.13	1.31	1.41	1.26	1.45
SE	1.04	1.25	1.37	1.51	1.38	1.56

* first semester 2021 (06/01/21 -29/06/21).

Sources: DG Energy, Member States, weekly oil bulletin
Methodology and Notes: [See Appendices](#)

2.13.1 Prices of Transport Fuels

EURO-SUPER 95 – ALL TAXES INCLUDED*

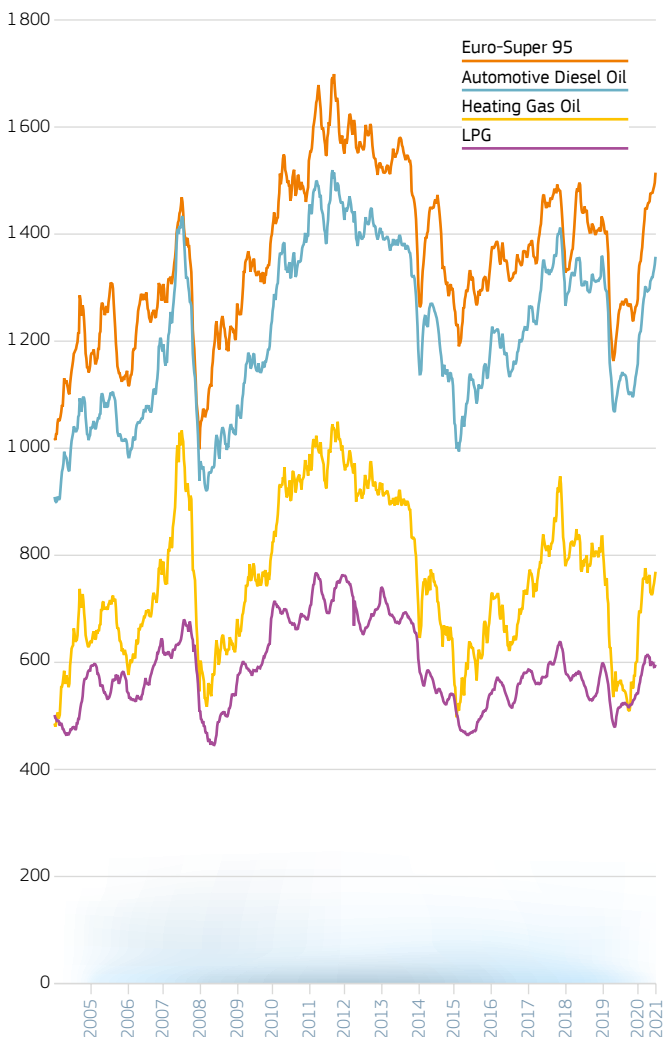
Current Prices (€/litre)	2009	2010	2015	2019	2020	2021
EU27_2020	1.15	1.31	1.35	1.40	1.28	1.43
BE	1.24	1.40	1.37	1.39	1.28	1.40
BG	0.88	1.02	1.10	1.08	0.93	1.00
CZ	1.03	1.25	1.15	1.24	1.07	1.19
DK	1.28	1.44	1.50	1.61	1.45	1.61
DE	1.26	1.39	1.40	1.42	1.29	1.50
EE	0.92	1.11	1.11	1.34	1.25	1.35
IE	1.11	1.30	1.37	1.40	1.29	1.42
EL	1.00	1.43	1.48	1.59	1.45	1.57
ES	1.01	1.16	1.23	1.30	1.18	1.31
FR	1.21	1.34	1.36	1.50	1.36	1.49
HR			1.26	1.34	1.20	1.34
IT	1.23	1.36	1.54	1.57	1.43	1.55
CY	0.88	1.04	1.23	1.18	1.08	1.17
LV	0.96	1.09	1.13	1.26	1.14	1.27
LT	1.02	1.18	1.16	1.20	1.10	1.20
LU	1.03	1.16	1.18	1.21	1.08	1.25
HU	1.00	1.22	1.16	1.17	1.02	1.17
MT	1.12	1.19	1.36	1.38	1.37	1.34
NL	1.35	1.49	1.56	1.65	1.57	1.73
AT	1.04	1.19	1.20	1.24	1.08	1.20
PL	0.96	1.13	1.11	1.16	1.00	1.13
PT	1.23	1.37	1.43	1.49	1.39	1.55
RO	0.84	1.06	1.20	1.16	0.95	1.10
SI	1.05	1.20	1.29	1.28	1.07	1.15
SK	1.11	1.25	1.29	1.33	1.18	1.32
FI	1.28	1.43	1.47	1.52	1.41	1.59
SE	1.12	1.34	1.41	1.48	1.35	1.53

* First semester 2021 (06/01/21 -29/06/21).

Sources: DG Energy, Member States, weekly oil bulletin
Methodology and Notes: [See Appendices](#)

2.13.1 Prices of Transport Fuels

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



* First semester 2021 (06/01/21 -29/06/21).

All Taxes Included, weekly prices.

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

Sources: DG Energy, Member States, weekly oil bulletin

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	2018	2019	2020
EU27_2020	15.50	17.22	20.14	19.69	19.99	19.38
BE	14.33	16.78	17.24	17.36	15.92	13.84
BG	9.67	11.98	10.86	12.15	12.27	9.67
CZ	13.11	14.35	16.21	15.80	16.32	15.51
DK	23.64	26.81	24.48	25.37	21.41	20.74
DE	16.35	15.86	18.93	16.88	16.33	17.21
EE	10.07	11.14	10.68	11.80	12.38	11.43
IE	15.29	14.63	20.11	21.14	21.22	19.49
EL			20.83	18.18	16.30	14.37
ES	14.88	15.00	26.57	24.29	28.35	24.71
FR	16.20	15.98	20.35	21.19	23.31	20.87
HR	9.10	10.54	12.76	9.99	11.28	10.49
IT	14.84	21.86	25.13	26.43	25.96	24.92
CY						
LV	10.52	11.28	13.47	12.50	9.74	7.77
LT	11.29	12.59	12.12	11.24	11.27	8.21
LU	12.82	13.13	13.40	11.91	11.49	10.17
HU	13.23	15.38	9.78	9.64	9.29	8.56
MT						
NL	18.73	19.99	22.30	23.91	26.80	28.05
AT	17.23	16.71	19.75	19.48	18.73	18.23
PL	12.78	14.04	13.84	12.50	12.91	11.65
PT	16.52	17.49	27.28	21.77	21.56	21.74
RO	7.45	7.73	9.45	9.83	9.23	8.90
SI	14.96	18.68	16.91	16.02	15.59	15.26
SK	13.21	12.39	13.74	12.76	13.35	13.33
FI						
SE	26.12	29.48	32.58	33.97	32.43	29.80

* All Taxes and Levies Included.

** Prices from second semester each year.

Source: Eurostat, June 2021

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	2018	2019	2020
EU27_2020	16.77	17.77	20.89	21.46	21.70	21.34
BE	18.64	19.74	23.52	29.36	28.60	27.02
BG	8.18	8.30	9.57	10.05	9.58	9.82
CZ	15.33	15.49	14.08	15.86	17.70	17.95
DK	25.55	27.08	30.42	31.23	29.24	28.19
DE	22.94	24.38	29.46	30.00	28.78	30.06
EE	9.20	10.04	12.91	14.18	14.11	12.91
IE	18.55	18.75	24.54	25.39	25.46	26.16
EL	10.32	12.11	17.71	16.46	15.51	16.41
ES	16.84	18.51	23.70	24.77	23.94	22.98
FR	12.07	13.50	16.82	17.99	19.13	19.58
HR	11.64	11.53	13.12	13.21	13.24	13.07
IT	19.97	19.20	24.28	21.61	23.41	21.53
CY	16.42	20.21	18.38	21.83	22.36	16.98
LV	10.54	10.48	16.50	15.11	16.40	14.32
LT	9.26	12.16	12.43	10.97	12.54	13.21
LU	18.82	17.47	17.67	16.91	17.99	19.85
HU	16.62	15.74	11.45	11.18	10.97	10.09
MT	15.13	16.53	12.69	13.07	13.04	12.98
NL	19.06	17.89	18.46	17.18	20.55	13.61
AT	19.09	19.30	19.83	20.12	20.74	21.67
PL	12.91	13.82	14.18	13.96	13.76	15.10
PT	15.94	16.66	22.85	22.93	21.81	21.33
RO	9.79	10.52	13.19	13.17	14.21	14.49
SI	13.41	14.26	16.31	16.38	16.66	16.94
SK	15.60	16.37	15.17	14.62	15.85	17.24
FI	12.89	13.70	15.30	16.98	17.83	17.73
SE	16.46	19.58	18.74	19.90	20.76	17.18

* All Taxes and Levies Included.

** Prices from second semester each year.

Source: Eurostat June 2021

Methodology and Notes: [See Appendices](#)

2.13.3 Fuel Prices* – Industrial Consumers

GAS – BAND I3

10000 GJ < CONSUMPTION < 100000 GJ

2ND SEMESTER**

€/GJ (GCV)	2009	2010	2015	2018	2019	2020
EU27_2020	8,61	9,42	9,53	8,77	8,53	7,74
BE	8,50	8,20	7,94	6,99	6,32	5,76
BG	5,96	8,41	7,49	8,03	7,75	5,60
CZ	7,56	10,07	8,17	7,41	7,95	7,01
DK	6,85	10,72	10,19	10,67	8,38	8,19
DE	9,61	11,09	10,47	8,76	8,32	8,02
EE	6,39	7,85	7,54	9,04	9,26	6,88
IE	7,31	8,80	10,28	10,78	8,94	8,73
EL			10,00	9,32	9,28	5,92
ES	7,53	8,08	8,81	8,29	8,53	6,52
FR	8,80	9,69	10,19	10,83	10,22	9,71
HR	7,43	10,95	9,74	7,87	8,32	7,51
IT	7,83	8,34	8,87	8,13	8,22	7,23
CY						
LV	7,69	8,84	8,17	9,00	7,76	5,89
LT	7,55	9,40	6,05	10,74	7,63	5,91
LU	10,03	11,72	10,33	9,22	7,90	7,88
HU	10,06	9,93	9,38	7,91	7,60	6,14
MT						
NL	9,72	8,62	8,91	8,25	7,90	7,72
AT	9,07	9,78	10,50	9,44	8,60	8,31
PL	8,36	9,02	9,39	8,66	9,33	8,09
PT	7,22	9,28	10,52	8,21	8,70	6,73
RO	5,93	6,11	8,05	7,81	8,76	6,78
SI	9,61	11,81	10,57	9,53	9,40	8,74
SK	8,91	10,22	9,63	8,56	9,92	8,88
FI	8,00	9,13	11,73	16,28	15,41	13,62
SE	12,47	13,43	11,61	13,35	9,92	10,40

* Excluding VAT and other recoverable Taxes and Levies.

** Prices from second semester each year.

Source: Eurostat June 2021

Methodology and Notes: [See Appendices](#)

2.13.3 Fuel Prices – Industrial Consumers

FUELS PRICES – INDUSTRIAL CONSUMERS*

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

2ND SEMESTER**

€/100 kWh	2009	2010	2015	2018	2019	2020
EU27_2020	10.11	10.42	11.44	11.29	11.90	12.54
BE	10.79	10.54	10.81	11.42	11.52	11.85
BG	6.39	6.64	7.82	8.46	8.68	8.43
CZ	11.22	10.81	7.83	7.21	7.84	8.42
DK	9.20	9.61	8.99	7.88	6.81	6.86
DE	11.34	11.90	14.93	15.16	16.08	18.18
EE	6.45	7.27	9.58	9.24	9.15	8.73
IE	11.75	11.31	13.57	13.49	13.28	14.86
EL	9.36	10.26	11.50	10.50	10.84	10.59
ES	11.20	10.93	11.33	10.98	11.04	11.75
FR	6.48	7.16	9.51	8.89	9.50	9.54
HR	9.04	9.04	9.28	10.13	10.55	10.23
IT	13.70	14.43	15.97	14.34	16.16	15.14
CY	14.94	17.30	14.12	18.11	18.00	13.64
LV	8.93	9.07	11.83	10.47	10.70	10.55
LT	7.90	10.46	9.97	8.99	9.45	10.26
LU	11.58	10.24	8.93	8.46	9.04	9.38
HU	12.97	10.53	8.70	8.22	9.54	9.40
MT	12.91	18.10	14.05	13.52	13.55	13.47
NL	10.61	9.70	8.46	8.09	8.99	10.35
AT	11.62	11.28	10.47	10.12	10.88	11.84
PL	9.33	9.87	8.61	8.84	8.28	10.77
PT	9.44	9.20	11.54	11.70	11.59	11.14
RO	8.28	8.08	8.02	8.66	10.14	10.19
SI	9.62	10.05	8.70	8.66	9.53	9.76
SK	14.03	11.98	11.22	12.01	13.17	13.16
FI	6.83	6.83	7.06	7.07	7.21	7.59
SE	6.89	8.41	5.90	7.27	6.94	5.88

* Excluding VAT and other recoverable Taxes and Levies.

** Prices from second semester each year.

Source: Eurostat June 2021

Methodology and Notes: [See Appendices](#)

3 Socio-Economic indicators in the EU



3

Socio-Economic
indicators in
the EU

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3.1 Classification of the Energy Sector*

3.1.1 Comparative table with EUROSTAT and UN classifications

EUROSTAT (NACE) AND UN (ISIC) CLASSIFICATIONS

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

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

Sources: Eurostat, UN, July 2019

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	2019
B05: Mining of Coal and Lignite	<i>245</i>	125	<i>198</i>
B06: Extraction of Crude Petroleum and Natural Gas	220	247	<i>246</i>
B07.21: Mining of Uranium and Thorium Ores	<i>4</i>	2	<i>2</i>
B08.92: Extraction of Peat	<i>981</i>	853	<i>910</i>
B09.1: Support Activities for Petroleum and Natural Gas Extraction	<i>851</i>	826	<i>1 002</i>
C19: Manufacture of Coke and Refined Petroleum Products	866	894	<i>841</i>
D35: Electricity, Gas, Steam and Air Conditioning Supply	96 893	98 557	<i>162 989</i>
D35.1: Electricity Power Generation, Transmission and Distribution	89 157	91 592	<i>151 605</i>
35.11: Production of Electricity	72 187	73 452	<i>133 975</i>
35.12: Transmission of Electricity	229	240	<i>600</i>
35.13: Distribution of Electricity	1 515	1 489	<i>2 521</i>
35.14: Trade of Electricity	3 192	3 278	<i>4 240</i>
D35.2: Manufacture of Gas; Distribution of Gaseous Fuels through Mains	1 870	1 830	<i>5 238</i>
35.21: Manufacture of Gas			<i>3 823</i>
35.22: Distribution of Gaseous Fuels through Mains		471	<i>594</i>
35.23: Trade of Gas through Mains	599	554	<i>691</i>
D35.3: Steam and Air Conditioning Supply	5 359	5 076	<i>6 160</i>
35.30: Steam & Air Conditioning Supply	5 359	5 076	<i>6 160</i>
Broad Sector – no. of Enterprises Reported	100 060	101 504	<i>166 188</i>

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2021
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	2019	2010	2015	2017	2019
EU27_2020			125	198	245	220	247	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	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	0	3	12	8	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								
FI	0	0	0	0	0	0	0	0
SE		0	0	0		0	2	0

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2021
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	2019	2010	2015	2017	2019
EU27_2020	985	981	853	940	540	851	826	1002
BE	0	0	0	0				
BG	10	4			6	14	11	8
CZ		17	15	15	7	6	6	6
DK	4	2	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	0		9	5	5
ES	6	7	7	7		46		45
FR	23	39	9	9	36	54	38	29
HR	0	0	0	0	7	4	5	6
IT	12	4	4	4		52	40	40
CY	0	0	0	0				
LV	49	91	84	84	0	2	1	1
LT	24	26	24	24	0	0	0	0
LU	0	0	0	0	0	0	0	0
HU	15	13	15	15	40	37	36	38
MT	0	0	0	0				
NL	7	6	5	5	116	251	280	325
AT	7	5	5	4	8	7	7	7
PL	45	32	35	35	90	104	128	167
PT	1	1	1	1	1	4	8	9
RO	8	5	5	5	91	106	93	102
SI	0	0	0	0	3	2	3	3
SK		42						
FI	463	450	470	470	0	0	0	0
SE	82	70	66	66	45	63	60	46

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2021

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	2019	2010	2015	2017	2019
EU27_2020		866	894	841		96893	98557	162989
BE	22		11	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	282	4028	10775	8861	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

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2021

Methodology and Notes: [See Appendices](#)

3.2.2 Turnover in the Energy Sector

ENTERPRISES SURVEY – EU27_2020

Mio EUR	2015	2017	2019
B05: Mining of Coal and Lignite	<i>10602</i>	10241	<i>8032</i>
B06: Extraction of Crude Petroleum and Natural Gas	84723	32349	<i>43015</i>
B07.21: Mining of Uranium and Thorium Ores			
B08.92: Extraction of Peat	1288	<i>950</i>	<i>1114</i>
B09.1: Support Activities for Petroleum and Natural Gas Extraction	4455	2161	<i>3398</i>
C19: Manufacture of Coke and Refined Petroleum Products	330409	313958	<i>396903</i>
D35: Electricity, Gas, Steam and Air Conditioning Supply	1310101	1344383	<i>1456779</i>
D35.1: Electricity Power Generation, Transmission and Distribution	1076224	1060108	<i>1165231</i>
35.11: Production of Electricity	179021	200234	<i>224559</i>
35.12: Transmission of Electricity	15340	11917	<i>55942</i>
35.13: Distribution of Electricity	48033	42447	<i>122833</i>
35.14: Trade of Electricity	263846	237913	<i>412272</i>
D35.2: Manufacture of Gas; Distribution of Gaseous Fuels through Mains	185470	176478	<i>218575</i>
35.21: Manufacture of Gas	408	421	<i>24392</i>
35.22: Distribution of Gaseous Fuels through Mains	11726	9156	<i>21917</i>
35.23: Trade of Gas through Mains	76229	72218	<i>129447</i>
D35.3: Steam and Air Conditioning Supply	34939	28392	<i>34367</i>
35.30: Steam and Air Conditioning Supply	34939	28392	<i>27409</i>
Broad Sector – Turnover Reported	1741579	1704042	<i>1909241</i>

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2021
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	2019	2010	2015	2017	2019
EU27_2020	14 838	10 602	10 241	8 032	84 723	32 349	43 015	
BE		0	0	0	0	0	0	0
BG	331	349	345	295	26	30		
CZ	2 812	1 578	1 560	1 255				
DK	0	0	0	0	7 050	3 896	3 894	4 559
DE	3 921	2 162	2 113	897	2 762	2 978	2 600	13 720
EE	0	0	0	0		245	270	202
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	46 241	46 395	33 133	33 133
CY	0	0	0	0	0	0	0	0
LV	0	0	0	0				
LT	0	0	0	0	69	39	29	31
LU	0	0	0	0	0	0	0	0
HU	7	9	5	8	81	33	59	93
MT	0	0	0	0	0	0	0	0
NL	0	0	0	0	34 862	26 735	17 171	14 453
AT	0	0	0	0				
PL	5 974	5 755	6 203	5 459				
PT	0	0	0	0	0	0	0	0
RO	358	21	15	8	4 191	4 246	4 340	5 385
SI								
SK								
FI	0	0	0	0	0	0	0	0
SE						0	0	0

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2021
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	2019	2010	2015	2017	2019
EU27_2020	1 700	1 288	950	1 114		4 455	2 161	3 398
BE	0	0	0	0				
BG	1					0		0
CZ		7	6	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	0		29	24	25
ES	11	10	11	11		99		73
FR	74	52	39	39	302	266	290	284
HR	0	0	0	0			148	195
IT	12	5	6	6		2 238	448	448
CY	0	0	0	0				
LV	101	151		0				
LT	40	61		0	0	0	0	0
LU	0	0	0	0	0	0	0	0
HU	3	5	6	6	95	133	141	147
MT	0	0	0	0				
NL								
AT					14			
PL					378	326	204	336
PT								2
RO	0	1	1	1	874	638	380	616
SI	0	0	0	0				
SK		12						
FI	554	472	459	459	0	0	0	0
SE	31	29	18	18		84		173

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2021
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	2019	2010	2015	2017	2019
EU27_2020	477 437	330 409	313 958	396 903	1 116 322	1 310 101	1 344 383	1 456 779
BE	48 074		42 339	39 171	43 772	36 969	32 197	39 787
BG					7 279	8 357	8 232	8 323
CZ	4 558				37 371	40 927	41 998	49 513
DK					20 378	21 487	25 502	26 973
DE	120 832	107 408	95 950	93 754	426 882	537 677	536 535	615 366
EE	178	254	194	220	1 834	1 765	2 021	2 262
IE					7 186	8 013	8 190	8 556
EL	15 340	14 818	13 891	16 563	5 943	19 684	21 321	20 593
ES	34 773	36 051	38 156	56 402	59 706	93 787	88 248	92 205
FR	61 248	39 383		45 381	109 649	110 123	126 595	127 351
HR					3 684	4 359	5 031	5 158
IT	46 038	35 596	37 662	38 600	160 950	195 056	218 353	214 976
CY					782	630	669	751
LV	1	8			2 311	2 082	2 071	2 081
LT					3 279	2 376	2 280	2 751
LU	0	0	0	0	1 951	4 647	3 893	4 958
HU	8 298	6 529	6 855	8 990	22 059	16 727	15 608	15 579
MT								
NL	37 272	34 362	30 284	36 669	41 197	31 409	27 086	30 776
AT		7 226	7 461	9 583	29 297	35 906	40 335	45 386
PL	27 575	27 045	30 326	29 614	42 567	47 826	46 699	46 376
PT	6 767	7 131	7 169	7 765	17 842	21 119	21 318	22 880
RO	3 272	3 374	3 673	4 811	12 078	13 175	12 427	12 971
SI					4 034	6 076	7 305	6 940
SK					11 351	11 284	12 683	12 978
FI					14 455	12 422	12 428	14 413
SE		11 225		9 381	28 486	26 220	25 360	26 878

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2021
Methodology and Notes: [See Appendices](#)

3.2.3 Number of Persons Declared as Employed in the Energy Sector

ENTERPRISES SURVEY – EU27_2020

	2015	2017	2019
B05: Mining of Coal and Lignite	148 224	121 562	<i>138 315</i>
B06: Extraction of Crude Petroleum and Natural Gas	56 621	35 099	<i>36 740</i>
B07.21: Mining of Uranium and Thorium Ores			
B08.92: Extraction of Peat	<i>10 714</i>	7 025	<i>10 310</i>
B09.1: Support Activities for Petroleum and Natural Gas Extraction	<i>36 816</i>	<i>22 051</i>	<i>17 116</i>
C19: Manufacture of Coke and Refined Petroleum Products	<i>113 733</i>	<i>123 030</i>	<i>108 691</i>
D35: Electricity, Gas, Steam and Air Conditioning Supply	1 090 709	1 156 847	<i>1 379 747</i>
D35.1: Electricity Power Generation, Transmission and Distribution	809 201	839 628	<i>1 045 051</i>
35.11: Production of Electricity	222 839	233 587	<i>450 296</i>
35.12: Transmission of Electricity	39 376	31 769	<i>40 463</i>
35.13: Distribution of Electricity	111 958	109 222	<i>198 552</i>
35.14: Trade of Electricity	46 126	54 919	<i>110 944</i>
D35.2: Manufacture of Gas; Distribution of Gaseous Fuels through Mains	99 864	83 395	<i>96 044</i>
35.21: Manufacture of Gas	918	928	<i>11 526</i>
35.22: Distribution of Gaseous Fuels through Mains	41 664	28 782	<i>34 894</i>
35.23: Trade of Gas through Mains	26 052	19 702	<i>29 414</i>
D35.3: Steam and Air Conditioning Supply	143 299	115 238	<i>108 382</i>
35.30: Steam and Air Conditioning Supply	143 299	115 238	<i>114 062</i>
Broad Sector – Employment Reported	1 456 817	1 465 614	<i>1 690 918</i>

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2021
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	2019	2010	2015	2017	2019
EU27_2020		148 224	121 562	138 315		56 621	35 099	36 740
BE		0	0	0		0	0	0
BG	13 269	11 995	10 300	10 180				34
CZ	24 265	18 716	15 138	13 411				
DK	0	0	0	0	566	1 051	2 542	3 387
DE	33 672	17 468	13 011	13 011	3 754	3 927	3 526	4 925
EE	0	0	0	0		3 043	2 819	2 181
IE								
EL		316		243				102
ES	6 105	1 684		526	242	368	995	192
FR	28	2	0	0	814			
HR		0	0	0		7 852	63	59
IT		0	0	0	12 116	12 681	1 864	2 258
CY	0	0	0	0	0	0	0	0
LV	0	0	0	0	1	20	12	11
LT	0	0	0	0	252	212	149	141
LU	0	0	0	0	0	0	0	0
HU	111	124	76	208	75	68	125	33
MT	0	0	0	0	0	0	0	0
NL	0	0	0	0	3 173	3 913	3 252	2 542
AT	0	0	0	0				
PL	124 925	96 076	82 084	100 288				
PT	0	0	0	0	0	0	0	0
RO	18 011	1 843	953	448	30 546	23 486	19 752	20 876
SI								
SK					0			0
FI	0	0	0	0	0	0	0	0
SE						0	0	0

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2021
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	2019	2010	2015	2017	2019
EU27_2020		<i>10 714</i>	7 025	<i>10 310</i>		<i>36 816</i>	<i>22 051</i>	<i>17 116</i>
BE	0	0	0	<i>0</i>				
BG	52	55		<i>59</i>	14	25	17	<i>18</i>
CZ		71	61	<i>58</i>	421			
DK						1 587	1 324	<i>2 444</i>
DE	2 003	1 762	1 599	<i>1 768</i>				<i>1 661</i>
EE	1 153	963	781	<i>800</i>	0	0	0	<i>0</i>
IE					35	29	38	<i>36</i>
EL	0		0	<i>0</i>		276	337	<i>359</i>
ES	48	36	38	<i>39</i>		191		<i>158</i>
FR	248	130	130	<i>150</i>	110	386	524	
HR	0	0	0	<i>0</i>		2 273	1 842	<i>1 893</i>
IT	12	21	25	<i>21</i>		2 188	1 691	<i>1 574</i>
CY	0	0	0	<i>0</i>	0			<i>0</i>
LV	1 977	2 158	2 061	<i>2 061</i>	0	2	1	<i>1</i>
LT	1 126	1 149			0	0	0	<i>0</i>
LU	0	0	0	<i>0</i>	0	0	0	<i>0</i>
HU	116	97	89	<i>103</i>	1 089	1 062	848	<i>305</i>
MT	0	0	0	<i>0</i>				
NL	22	104	223	<i>199</i>				
AT					27			
PL					4 082	4 638	2 781	<i>3 449</i>
PT								<i>14</i>
RO	26	25	23	<i>19</i>	6 267	6 771	4 776	<i>5 129</i>
SI	0	0	0	<i>0</i>				
SK		114						
FI	1 845	1 977	1 852	<i>2 387</i>	0	0	0	
SE	306	165	143	<i>143</i>		75		<i>74</i>

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2021
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	2019	2010	2015	2017	2019
EU27_2020		113733	123030	108691		1090709	1156847	1379747
BE	4091		4558	3962	19193	20293	18942	28888
BG		2078	2449	2466	34191	31751	31779	35335
CZ	2747				31480	34536	37296	37376
DK					11235	13815	11474	13848
DE	19452	22302	21715	27695	221264	224669	234461	383325
EE	1406	1679	1297	1293	5681	4949	5121	4550
IE					9117	8846	9588	10224
EL	4333	3588	3718	5088	22834	25764	29842	28586
ES	8954	8453	8755	12185	48687	39764	41844	52599
FR	15095				170194	190364	239570	257917
HR		262	4616	4505	16619	14893	15218	18403
IT	16493	11065	11471	13447	86414	89109	96157	100966
CY					2470	2130	2081	2702
LV	12	65	58	54	10907	11344	10981	7806
LT					15876	13522	12185	10449
LU	0	0	0	0	1196	1529	1679	1710
HU	6329	5691	5711	11574	25715	24601	24991	23469
MT						10		67
NL	5908	5299	5577	6119	22882	27969	27216	31963
AT		1180	1268	2004	28685	29168	28847	30933
PL	13623	13495	13890	13874	162409	128183	125733	137281
PT	1971	1830	1778	1941	9496	9589	12709	17985
RO	3960	2560	2094	2475	81111	72333	66385	64642
SI		26		9	8207	8958	8797	9659
SK					20034	17873	17364	16705
FI					13463	13368	13797	14519
SE		2879			31115	31379	32790	37839

Italics, blue: DG Energy Estimates.

Source: Eurostat, Structural Business Statistics Survey (SBS), May 2021
Methodology and Notes: [See Appendices](#)

3.3 Economy

3.3.1 GDP at Current Prices

Mrd EUR*	2005	2010	2015	2017	2019	2020
EU27_2020	9563.5	10979.5	12211.5	13069.7	13965.3	13297.6
BE	310.0	363.1	416.7	445.0	476.2	449.6
BG	24.0	38.1	45.7	52.3	61.2	60.6
CZ	110.3	157.9	169.6	194.1	223.9	213.6
DK	212.8	243.2	273.0	294.8	312.7	309.1
DE	2288.3	2564.4	3026.2	3259.9	3449.1	3332.2
EE	11.3	14.9	20.8	23.9	28.1	27.2
IE	170.2	167.7	262.9	300.4	356.1	366.5
EL	199.2	224.1	176.1	177.2	183.4	165.8
ES	927.4	1072.7	1077.6	1161.9	1244.8	1120.0
FR	1765.9	1995.3	2198.4	2297.2	2425.7	2278.9
HR	36.5	45.2	44.6	49.2	54.2	49.1
IT	1493.6	1611.3	1655.4	1736.6	1790.9	1651.6
CY	15.0	19.4	17.9	20.1	22.3	21.0
LV	13.8	17.9	24.6	27.0	30.4	29.3
LT	21.0	28.0	37.3	42.3	48.8	48.8
LU	30.0	40.2	52.1	56.8	63.5	64.1
HU	90.9	99.6	112.7	126.9	146.1	135.5
MT	5.2	6.8	10.0	11.7	13.6	12.8
NL	550.9	639.2	690.0	738.1	810.2	796.9
AT	254.1	295.9	344.3	369.3	397.6	375.6
PL	246.2	362.2	430.5	467.4	532.3	521.5
PT	158.6	179.6	179.7	195.9	213.9	202.7
RO	79.2	125.5	160.1	187.8	223.0	217.8
SI	29.1	36.4	38.9	43.0	48.4	46.3
SK	39.4	68.2	79.8	84.5	93.9	91.1
FI	164.7	188.1	211.4	226.3	240.3	237.5
SE	315.8	374.7	455.5	480.0	474.6	472.3

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

Source: DG Economic and Financial Affairs, AMECO, April 2021

Methodology and Notes: [See Appendices](#)

3.3.2 GDP per Capita at Current Prices

Thousand EUR/cap*	2005	2010	2015	2017	2019	2020
EU27_2020	22.0	24.9	27.5	29.3	31.3	29.7
BE	29.7	33.5	37.1	39.2	41.6	39.0
BG	3.1	5.1	6.3	7.4	8.7	8.7
CZ	10.8	15.1	16.1	18.4	21.0	20.0
DK	39.3	43.9	48.2	51.3	53.9	53.1
DE	27.7	31.3	37.3	39.5	41.5	40.1
EE	8.3	11.1	15.8	18.1	21.2	20.4
IE	41.4	36.9	56.2	62.8	72.6	73.8
EL	18.2	20.2	16.2	16.5	17.1	15.5
ES	21.4	23.1	23.2	25.0	26.5	23.7
FR	28.1	30.9	33.1	34.4	36.1	33.9
HR	8.5	10.5	10.6	11.9	13.3	12.1
IT	25.8	27.2	27.2	28.7	29.9	27.7
CY	20.5	23.7	21.1	23.5	25.4	23.6
LV	6.1	8.4	12.4	13.8	15.8	15.4
LT	6.3	8.9	12.8	14.8	17.5	17.5
LU	65.1	80.0	92.5	96.2	103.5	102.4
HU	9.0	9.9	11.4	13.0	14.9	13.9
MT	12.8	16.5	22.7	25.4	27.5	24.9
NL	33.8	38.6	40.8	43.2	46.9	45.8
AT	31.0	35.4	40.1	42.1	44.9	42.2
PL	6.4	9.5	11.3	12.3	14.0	13.7
PT	15.1	17.0	17.3	19.0	20.8	19.7
RO	3.7	6.2	8.1	9.6	11.5	11.3
SI	14.6	17.8	18.8	20.8	23.3	22.1
SK	7.3	12.6	14.7	15.6	17.2	16.7
FI	31.4	35.2	38.6	41.1	43.5	43.0
SE	35.0	40.1	46.7	48.0	46.4	45.7

* €1 000' per Capita.

Sources: DG Economic and Financial Affairs, AMECO, April 2021;
Eurostat, Demography and Migration, April 2021

Methodology and Notes: [See Appendices](#)

3.3.3 GDP at 2015 Prices

Mrd EUR*	2005	2010	2015	2017	2019	2020
EU27_2020	11 059.8	11 620.5	12 211.5	12 806.7	13 280.2	12 459.5
BE	362.9	390.6	416.7	428.8	444.1	415.6
BG	35.7	41.8	45.7	49.1	52.5	50.3
CZ	137.9	155.9	169.6	182.8	193.1	182.3
DK	253.4	256.1	273.0	289.8	304.6	294.6
DE	2 624.6	2 783.2	3 026.2	3 174.2	3 232.3	3 074.0
EE	17.9	17.7	20.8	22.6	24.8	24.1
IE	185.7	189.6	262.9	292.6	335.2	346.6
EL	219.9	216.3	176.1	177.5	183.6	168.5
ES	1 028.7	1 079.0	1 077.6	1 143.3	1 193.9	1 063.0
FR	2 005.2	2 088.8	2 198.4	2 273.4	2 349.1	2 158.5
HR	43.8	45.1	44.6	47.8	50.5	46.3
IT	1 737.6	1 712.8	1 655.4	1 704.7	1 725.7	1 572.6
CY	17.1	19.5	17.9	20.0	21.7	20.6
LV	21.1	20.6	24.6	26.0	27.6	26.6
LT	29.2	31.0	37.3	39.9	43.3	42.9
LU	40.0	45.2	52.1	55.4	58.5	57.7
HU	102.3	101.7	112.7	120.1	132.4	125.8
MT	6.6	7.7	10.0	11.3	12.5	11.6
NL	620.7	664.8	690.0	725.7	755.2	726.8
AT	306.1	326.7	344.3	359.5	374.1	349.4
PL	294.6	372.2	430.5	465.4	512.6	498.8
PT	182.0	187.4	179.7	189.8	200.0	184.9
RO	121.0	139.1	160.1	180.0	195.8	188.2
SI	34.7	38.1	38.9	42.0	45.3	42.7
SK	55.3	70.3	79.8	83.9	89.1	84.5
FI	201.1	210.6	211.4	224.3	230.1	223.7
SE	374.5	409.1	455.5	476.9	492.8	478.9

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

Sources: DG Economic and Financial Affairs, AMECO, April 2021;
Eurostat, Demography and Migration, April 2021

Methodology and Notes: [See Appendices](#)

3.3.4 GDP per Capita at 2015 Prices

Thousand EUR/cap*	2005	2010	2015	2017	2019	2020
EU27_2020	25.5	26.4	27.5	28.7	29.7	27.9
BE	34.7	36.0	37.1	37.8	38.8	36.1
BG	4.6	5.6	6.3	6.9	7.5	7.2
CZ	13.5	14.9	16.1	17.3	18.1	17.1
DK	46.8	46.3	48.2	50.4	52.5	50.6
DE	31.8	34.0	37.3	38.5	38.9	37.0
EE	13.2	13.2	15.8	17.2	18.7	18.1
IE	45.2	41.7	56.2	61.2	68.3	69.8
EL	20.0	19.5	16.2	16.5	17.1	15.7
ES	23.8	23.2	23.2	24.6	25.4	22.5
FR	31.9	32.3	33.1	34.0	35.0	32.1
HR	10.2	10.5	10.6	11.5	12.4	11.4
IT	30.0	28.9	27.2	28.1	28.9	26.4
CY	23.3	23.8	21.1	23.4	24.8	23.2
LV	9.4	9.7	12.4	13.3	14.4	13.9
LT	8.7	9.9	12.8	14.0	15.5	15.4
LU	86.8	90.0	92.5	93.8	95.2	92.2
HU	10.1	10.2	11.4	12.3	13.5	12.9
MT	16.4	18.6	22.7	24.4	25.3	22.6
NL	38.1	40.1	40.8	42.5	43.7	41.8
AT	37.3	39.1	40.1	41.0	42.2	39.3
PL	7.7	9.8	11.3	12.3	13.5	13.1
PT	17.3	17.7	17.3	18.4	19.5	18.0
RO	5.7	6.9	8.1	9.2	10.1	9.7
SI	17.4	18.6	18.8	20.3	21.7	20.4
SK	10.3	13.0	14.7	15.4	16.4	15.5
FI	38.4	39.4	38.6	40.8	41.7	40.5
SE	41.6	43.8	46.7	47.7	48.2	46.4

* €1 000' 2010 per Capita.

Sources: DG Economic and Financial Affairs, AMECO, April 2021;
Eurostat, Demography and Migration, April 2021

Methodology and Notes: [See Appendices](#)

3.4 Demography

3.4.1 Population

ON 1ST JANUARY

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

3.5 Employment

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

MEMBER STATES DATA – EU27_2020

Thousands	2015	2017	2019	2020
B05: Mining of Coal and Lignite	288.6	256.5	249.3	245.3
B06: Extraction of Crude Petroleum and Natural Gas	64.3	57.0	54.7	57.2
B08.92: Extraction of Peat*	<i>10.7</i>	7.0	<i>10.3</i>	<i>10.3</i>
B091: Support Activities for Petroleum and Natural Gas Extraction*	<i>36.8</i>	<i>22.1</i>	17.1	<i>17.1</i>
C19: Manufacture of Coke and refined Petroleum Products	<i>160.7</i>	<i>164.3</i>	165.7	160.1
D35: Electricity, Gas, Steam and Air Conditioning Supply	1 370.6	1 361.9	1 409.9	1 464.3
Broad Sector Total Employment**	1 931.7	1 868.8	1 907.0	<i>1 954.3</i>

* According to the Structural Business Survey (SBS), May 2021.

** 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), April 2021

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	2017	2019	2020
EU27_2020	68.8	70.3	71.9	72.8	73.4	72.9
BE	66.7	67.7	67.6	68.0	69.0	68.6
BG	62.1	66.7	69.3	71.3	73.2	72.2
CZ	70.4	70.2	74.0	75.9	76.7	76.4
DK	79.8	78.0	76.9	77.9	79.1	79.0
DE	73.8	76.7	77.6	78.2	79.2	79.3
EE	70.7	73.9	76.7	78.8	78.9	79.3
IE	73.9	71.6	72.1	72.7	73.3	71.9
EL	66.4	67.8	67.8	68.3	68.4	67.4
ES	70.0	73.5	74.3	73.9	73.8	72.2
FR	69.7	70.3	71.5	71.8	72.0	71.4
HR	63.3	65.1	66.9	66.4	66.5	67.1
IT	62.5	62.0	64.0	65.4	65.7	64.1
CY	72.4	73.6	73.9	73.9	76.0	75.8
LV	69.1	73.0	75.7	77.0	77.3	78.2
LT	68.7	70.2	74.1	75.9	78.0	78.5
LU	66.6	68.2	70.9	70.2	72.0	72.2
HU	61.3	61.9	68.6	71.2	72.6	72.8
MT	57.6	60.4	68.8	72.2	75.9	77.1
NL	75.1	77.9	79.6	79.7	80.9	80.9
AT	71.4	74.4	75.5	76.4	77.1	76.6
PL	64.4	65.3	68.1	69.6	70.6	71.0
PT	73.2	73.7	73.4	74.7	75.5	74.3
RO	62.3	64.9	66.1	67.3	68.6	69.2
SI	70.7	71.5	71.8	74.2	75.2	74.6
SK	68.9	68.7	70.9	72.1	72.7	72.4
FI	74.7	74.5	75.8	76.7	78.3	78.3
SE	78.2	79.1	81.7	82.5	82.9	82.5

* Percentage of active population.

Source: Eurostat, Labour Force Survey (LFS), April 2021

Methodology and Notes: [See Appendices](#)

3.5.3 Unemployment Rate in all Economic Sectors *

MEMBER STATES' DATA – ALL SECTORS

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

* Percentage of active population.

Source: Eurostat, Labour Force Survey (LFS), April 2021
Methodology and Notes: [See Appendices](#)

4 Environment Indicators in the EU



4 Environment Indicators in the EU

Summary

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4.1 Gases Emissions

4.1.1 Greenhouse Gas (GHG) Emissions

EU AND MEMBER STATES – TOTAL*

Million ton CO ₂ equiv.	1990	2005	2010	2016	2018	2019
EU27_2020	4925.1	4638.8	4277.2	3929.9	3891.8	3742.6
Index1990	100,0%	94,2%	86,8%	79,8%	79,0%	76,0%
BE	148.9	149.2	137.9	123.4	123.1	121.9
BG	100.7	63.3	60.3	61.9	58.1	56.7
CZ	199.5	149.8	141.6	129.7	130.5	124.6
DK	72.6	69.3	66.0	51.3	51.2	47.4
DE	1260.6	1015.5	966.3	929.0	886.1	839.7
EE	41.2	19.4	21.3	18.3	20.4	14.9
IE	55.5	72.8	64.3	63.0	65.8	63.1
EL	105.8	139.0	121.1	98.4	96.2	89.7
ES	294.8	453.7	370.6	351.6	351.7	333.7
FR	553.2	567.0	524.2	475.0	462.5	454.8
HR	31.9	30.0	28.1	24.3	24.1	24.2
IT	523.0	597.6	525.4	450.1	440.6	430.8
CY	6.3	10.1	10.3	9.1	9.9	9.9
LV	26.1	11.1	12.2	11.1	11.7	11.6
LT	48.2	22.8	20.9	20.5	20.5	20.7
LU	13.1	14.3	13.5	11.7	12.4	12.6
HU	95.3	77.5	66.8	62.1	65.6	65.3
MT	2.8	3.3	3.3	2.6	2.5	2.7
NL	225.2	224.0	222.4	204.6	199.0	192.7
AT	79.3	94.1	86.4	80.6	81.2	82.8
PL	476.5	406.1	415.0	392.7	414.9	394.0
PT	60.4	88.2	71.6	70.9	71.4	68.0
RO	267.2	149.5	118.8	117.1	118.6	114.3
SI	18.6	20.5	19.7	16.8	17.6	17.1
SK	73.5	50.6	45.5	40.9	42.4	40.2
FI	72.3	71.2	77.4	57.1	58.7	55.7
SE	72.6	68.6	66.7	56.2	55.0	53.6

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

Source: EEA, June 2021, Eurostat 2021

Methodology and Notes: [See Appendices](#)

4.1.1 Greenhouse Gas (GHG) Emissions

EU AND MEMBER STATES – ENERGY

Million ton CO ₂ equiv.	2019								
	Energy	of which:							
		Energy Industries	Manufacturing Industries and Construction	Transport	Commercial/ Institutional	Residential	Agriculture/ Forestry/ Fisheries	Other Sectors	Other Combustion and Fugitive Emissions
EU27_2020	2 767.3	900.3	435.5	834.9	129.5	317.2	76.8	6.7	66.5
Share [%]	100.0%	32.5%	15.7%	30.2%	4.7%	11.5%	2.8%	0.2%	2.4%
BE	85.8	21.2	13.5	26.0	5.7	16.1	2.5	0.1	0.7
BG	40.2	22.5	4.1	10.0	0.4	0.9	0.5	0.0	1.9
CZ	93.6	49.2	9.4	19.1	3.0	8.5	1.3	0.3	2.9
DK	30.0	8.7	3.7	13.1	0.6	1.9	1.5	0.2	0.3
DE	677.4	249.7	125.4	165.5	32.8	89.8	6.1	0.9	7.1
EE	12.3	8.2	0.7	2.4	0.3	0.3	0.3		0.0
IE	35.2	9.4	4.6	12.2	1.8	6.5	0.7		0.1
EL	61.2	32.0	4.6	17.8	0.7	4.7	0.5	0.1	0.7
ES	236.7	56.1	47.2	91.4	10.7	15.2	11.9	0.5	3.8
FR	297.0	38.2	47.9	132.2	21.4	41.3	10.9	1.6	3.6
HR	16.4	3.9	2.4	6.6	0.6	1.8	0.7		0.4
IT	336.6	91.8	49.9	105.5	25.0	48.1	8.3	0.5	7.5
CY	6.6	3.3	0.6	2.1	0.1	0.3	0.1	0.0	
LV	7.5	1.8	0.7	3.3	0.4	0.6	0.5	0.0	0.1
LT	11.9	2.3	1.3	6.3	0.3	0.9	0.2	0.0	0.5
LU	9.3	0.2	1.2	6.2	0.7	1.0	0.0	0.0	0.0
HU	46.2	12.5	5.2	14.7	2.8	7.7	1.6	0.1	1.8
MT	1.7	0.7	0.0	0.8	0.1	0.0	0.0	0.0	
NL	150.0	57.1	26.9	31.0	7.2	15.8	10.3	0.2	1.5
AT	55.0	10.3	10.7	24.5	1.4	6.7	1.0	0.1	0.3
PL	321.9	150.7	31.4	66.1	6.5	33.4	12.0		21.8
PT	44.4	13.0	7.8	17.7	1.1	2.1	1.2	0.1	1.2
RO	76.0	21.4	14.6	18.9	2.3	8.0	1.6	0.6	8.6
SI	13.7	4.6	1.7	5.6	0.3	0.8	0.2	0.0	0.4
SK	26.8	7.1	6.3	8.1	1.3	3.1	0.3	0.1	0.5
FI	39.1	16.3	6.6	11.3	1.2	1.3	1.3	1.1	0.1
SE	34.9	8.1	7.0	16.4	0.8	0.6	1.2	0.2	0.6

4.1.1 Greenhouse Gas (GHG) Emissions

EU AND MEMBER STATES – NOT ENERGY RELATED

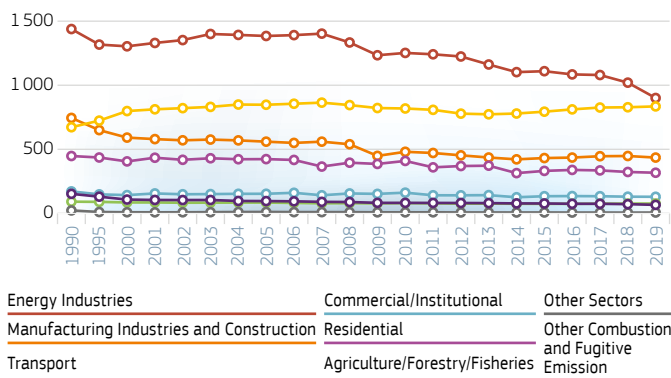
Million ton CO ₂ equiv.	2019					
	GHG Emissions other than from Energy	of which:				International aviation
		Industrial Processes and Product Use	Agriculture	Waste and Others	Indirect CO ₂	
EU27_2020	842.7	339.8	385.8	115.5	1.6	132.6
Share [%]	100.0%	40.3%	45.8%	13.7%	0.2%	
BE	30.9	20.2	9.4	1.3		5.2
BG	15.7	6.4	6.2	3.1		0.7
CZ	29.7	15.5	8.2	5.3	0.7	1.3
DK	14.2	1.8	10.9	1.2	0.3	3.1
DE	132.4	61.4	61.8	9.2		29.9
EE	2.4	0.6	1.5	0.3		0.2
IE	24.6	3.2	20.5	0.9		3.3
EL	24.4	11.7	7.9	4.8		4.0
ES	77.8	26.1	37.8	13.9		19.1
FR	139.0	47.7	73.2	18.1		18.8
HR	7.2	2.7	2.7	1.8		0.6
IT	81.6	33.9	29.5	18.2		12.5
CY	2.3	1.2	0.5	0.6	0.0	1.0
LV	3.7	0.9	2.2	0.6	0.0	0.5
LT	8.5	3.4	4.2	0.8		0.4
LU	1.5	0.7	0.7	0.1		1.8
HU	18.2	7.7	7.1	3.4		0.9
MT	0.5	0.3	0.1	0.2		0.5
NL	30.8	9.8	17.7	2.9	0.4	12.0
AT	24.8	16.4	7.2	1.3		2.9
PL	68.9	24.1	32.7	12.0		3.2
PT	19.2	7.7	6.9	4.6	0.2	4.4
RO	37.9	13.1	18.8	6.0		0.5
SI	3.4	1.3	1.7	0.4		0.1
SK	13.2	8.7	2.8	1.6	0.0	0.2
FI	14.0	5.5	6.6	1.8	0.1	2.6
SE	16.0	7.9	6.9	1.1		2.7

4.1.1 Greenhouse Gas (GHG) Emissions

EU – TOTAL AND ENERGY RELATED*

Million ton CO ₂ equiv.	GHG Emissions – National Total *	of which:								
		Energy	Energy Industries Manufacturing Industries and Construction	Transport	Commercial/ Institutional	Residential Agriculture/ Forestry/ Fisheries	Other Sectors Other Combustion and Fugitive Emission			
1990	4 925	3 741.6	1 438.5	745.0	672.3	171.5	447.7	91.3	22.9	152.5
1995	4 620	3 506.8	1 317.2	649.8	724.0	148.4	436.1	89.9	10.7	130.5
2000	4 536	3 444.0	1 303.8	591.4	798.4	142.7	405.6	85.3	8.9	107.8
2001	4 582	3 509.9	1 330.0	579.6	812.2	155.6	434.3	85.2	8.3	104.8
2002	4 566	3 507.3	1 352.4	570.3	821.2	149.3	418.2	83.0	8.7	104.1
2003	4 651	3 585.2	1 399.9	576.1	831.0	150.5	430.1	83.7	9.5	104.5
2004	4 661	3 578.9	1 392.7	569.7	849.4	152.7	422.6	84.3	10.6	97.0
2005	4 639	3 559.6	1 384.4	559.7	847.7	153.0	423.5	84.4	11.0	96.0
2006	4 640	3 559.9	1 391.1	549.9	855.7	160.6	417.1	81.4	9.9	94.1
2007	4 606	3 511.7	1 402.7	559.7	864.3	141.3	365.3	78.5	9.9	89.9
2008	4 510	3 446.6	1 333.6	539.5	845.0	155.5	395.6	79.4	9.4	88.7
2009	4 185	3 211.3	1 234.0	448.7	822.1	152.2	386.0	77.8	8.3	82.2
2010	4 277	3 292.0	1 252.2	480.6	818.5	161.7	409.3	79.7	8.0	81.9
2011	4 172	3 189.5	1 241.5	471.4	808.1	141.3	359.2	78.0	8.4	81.6
2012	4 095	3 130.4	1 224.4	453.0	778.4	141.0	369.5	75.9	7.3	81.0
2013	4 013	3 049.1	1 161.8	436.0	773.2	142.4	372.2	76.1	7.2	80.1
2014	3 877	2 902.9	1 102.3	421.7	779.2	125.8	314.2	74.9	7.0	77.8
2015	3 930	2 959.4	1 109.6	431.7	793.7	134.0	331.6	74.3	7.2	77.3
2016	3 939	2 962.0	1 084.6	435.6	811.6	135.0	339.1	74.6	6.5	74.9
2017	3 974	2 978.1	1 079.8	446.1	826.1	133.9	335.3	75.4	6.6	74.9
2018	3 892	2 904.2	1 020.3	447.8	828.2	130.3	323.1	76.5	6.1	71.9
2019	3 743	2 767.3	900.3	435.5	834.9	129.5	317.2	76.8	6.7	66.5

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



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

Source: EEA, June 2021, Eurostat 2021

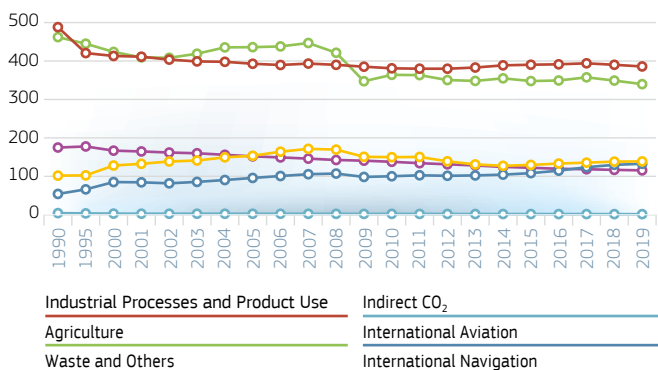
Methodology and Notes: [See Appendices](#)

4.1.1 Greenhouse Gas (GHG) Emissions

EU – NOT ENERGY RELATED

Million ton CO ₂ equiv.	GHG Emissions – National Total *	of which:					International Aviation	International Navigation
		GHG Emissions other than from Energy	Industrial Processes and Product Use	Agriculture	Waste and Others	Indirect CO ₂		
1990	4 925	1 129.3	462.1	488.0	174.9	4.3	54.2	101.8
1995	4 620	1 046.9	445.0	420.6	177.7	3.6	66.1	102.5
2000	4 536	1 006.5	423.6	413.1	166.8	3.0	85.1	128.0
2001	4 582	988.2	409.4	411.2	164.7	2.8	84.4	132.6
2002	4 566	976.5	408.3	403.6	161.9	2.7	81.8	138.6
2003	4 651	980.5	418.9	398.9	160.0	2.7	85.5	141.1
2004	4 661	991.8	435.4	397.9	156.0	2.6	90.4	149.4
2005	4 639	983.3	436.0	392.8	151.9	2.6	95.8	153.4
2006	4 640	979.2	437.9	389.6	149.2	2.6	100.8	164.1
2007	4 606	988.6	446.8	393.3	146.0	2.5	105.5	171.5
2008	4 510	956.4	421.4	390.0	142.5	2.4	107.2	169.5
2009	4 185	875.5	347.4	385.2	140.7	2.2	98.4	150.8
2010	4 277	885.0	364.0	381.0	137.8	2.3	100.2	149.8
2011	4 172	879.7	363.3	380.0	134.2	2.2	102.7	150.4
2012	4 095	863.6	350.4	379.9	131.3	2.1	101.4	139.1
2013	4 013	861.4	348.2	383.0	128.2	1.9	102.3	130.9
2014	3 877	870.0	354.9	388.7	124.5	1.9	104.4	127.3
2015	3 930	862.2	347.8	390.3	122.3	1.9	108.3	129.7
2016	3 939	862.1	349.3	391.4	119.6	1.8	114.7	133.2
2017	3 974	871.7	357.5	394.0	118.4	1.8	123.7	135.6
2018	3 892	857.7	349.1	390.1	116.8	1.7	129.9	138.2
2019	3 743	842.7	339.8	385.8	115.5	1.6	132.6	138.8

GHGS EMISSIONS – EU – NOT ENERGY RELATED – OTHER THAN FUEL COMBUSTION
(MILLION ton CO₂ equiv.)



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

Source: EEA, June 2021, Eurostat 2021

Methodology and Notes: [See Appendices](#)

4.1.2 CO₂ Emissions

EU AND MEMBER STATES – TOTAL*

Million ton CO ₂	1990	2005	2010	2015	2018	2019
EU27_2020	3945.0	3843.9	3539.6	3211.1	3189.4	3054.7
Index1990	100.0%	97.4%	89.7%	81.4%	80.8%	77.4%
BE	123.4	129.2	118.7	105.4	105.4	104.9
BG	77.4	51.2	48.4	48.8	44.4	43.0
CZ	166.6	127.7	119.5	106.6	108.1	102.7
DK	56.5	54.8	52.1	38.1	38.0	34.3
DE	1.064.4	889.5	857.2	820.2	784.0	741.1
EE	37.8	17.3	19.1	16.0	18.2	12.6
IE	34.0	50.6	44.1	41.2	42.5	40.6
EL	85.9	116.5	99.9	77.8	75.7	69.7
ES	235.9	381.2	296.5	286.2	288.1	270.5
FR	406.8	440.2	402.5	357.0	350.0	344.9
HR	23.5	23.6	21.3	18.2	18.3	18.4
IT	443.8	510.7	445.0	370.9	361.0	352.2
CY	5.4	8.8	8.9	7.7	8.4	8.4
LV	19.9	8.0	8.9	7.6	8.3	8.1
LT	36.2	14.3	14.1	13.6	14.1	14.3
LU	12.2	13.4	12.5	10.7	11.4	11.6
HU	73.7	61.1	52.8	47.2	50.2	49.9
MT	2.6	2.9	2.9	2.1	2.0	2.2
NL	167.3	188.3	192.2	176.0	171.6	165.5
AT	63.0	81.0	74.0	68.5	69.1	70.9
PL	377.4	324.3	336.3	315.3	340.0	322.7
PT	47.0	72.2	55.9	55.6	55.7	52.2
RO	190.6	102.8	80.6	80.2	81.1	77.4
SI	15.1	17.0	16.5	13.7	14.6	14.1
SK	61.6	43.0	38.6	34.6	36.3	34.0
FI	58.1	58.4	65.8	46.1	48.3	45.2
SE	58.7	55.8	55.2	45.8	44.9	43.6

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

Source: EEA, June 2021, Eurostat 2021

Methodology and Notes: [See Appendices](#)

4.1.2 CO₂ Emissions

EU AND MEMBER STATES – ENERGY

Million ton CO ₂	2019								
	Energy	of which:							
		Energy Industries	Manufacturing Industries and Construction	Transport	Commercial/ Institutional	Residential	Agriculture/ Forestry/ Fisheries	Other Sectors	Other Combustion and Fugitive Emissions
EU27_2020	2673.0	890.4	429.7	824.9	128.2	301.4	71.2	6.6	20.8
Share [%]	100.0%	33.3%	16.1%	30.9%	4.8%	11.3%	2.7%	0.2%	0.8%
BE	84.1	21.0	13.4	25.7	5.7	15.8	2.3	0.1	0.1
BG	38.5	22.4	4.1	9.8	0.3	0.6	0.4	0.0	0.8
CZ	89.1	48.9	9.3	18.9	2.9	7.5	1.2	0.3	0.1
DK	29.3	8.5	3.7	13.0	0.6	1.8	1.4	0.2	0.2
DE	662.7	244.8	124.3	163.5	32.6	88.7	5.8	0.9	2.0
EE	12.0	8.2	0.7	2.4	0.3	0.2	0.3		0.0
IE	34.6	9.2	4.6	12.0	1.8	6.4	0.6		0.0
EL	59.8	31.9	4.6	17.5	0.7	4.5	0.5	0.1	0.0
ES	232.3	55.4	46.0	90.3	10.6	14.2	11.8	0.4	3.6
FR	291.2	37.9	47.2	130.8	21.3	39.9	9.9	1.6	2.6
HR	15.7	3.9	2.4	6.5	0.6	1.4	0.6		0.2
IT	324.3	91.3	48.8	104.3	24.6	44.6	7.5	0.5	2.8
CY	6.5	3.3	0.6	2.1	0.1	0.3	0.1	0.0	
LV	7.0	1.8	0.6	3.3	0.4	0.4	0.5	0.0	0.0
LT	11.2	2.2	1.3	6.2	0.3	0.7	0.2	0.0	0.2
LU	9.1	0.2	1.2	6.1	0.7	0.9	0.0	0.0	0.0
HU	43.7	12.4	5.1	14.5	2.7	7.2	1.6	0.1	0.1
MT	1.7	0.7	0.0	0.7	0.1	0.0	0.0	0.0	
NL	147.1	56.6	26.8	30.7	7.2	15.4	9.2	0.2	1.1
AT	53.8	10.2	10.6	24.2	1.4	6.4	0.9	0.1	0.1
PL	298.5	149.9	31.1	65.3	6.4	30.8	10.7		4.3
PT	43.4	12.9	7.7	17.6	1.1	1.8	1.2	0.1	1.1
RO	66.2	21.3	14.5	18.7	2.2	6.8	1.4	0.6	0.6
SI	13.1	4.6	1.7	5.6	0.3	0.6	0.2	0.0	0.1
SK	25.9	7.1	6.3	8.0	1.3	2.8	0.3	0.1	0.0
FI	38.2	15.9	6.4	11.2	1.2	1.0	1.3	1.1	0.1
SE	34.0	7.9	6.8	16.2	0.7	0.5	1.2	0.2	0.5

4.1.2 CO₂ Emissions

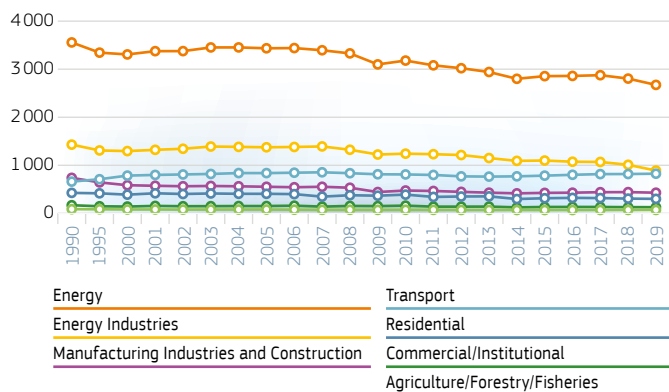
EU AND MEMBER STATES – NOT ENERGY RELATED

Million ton CO ₂	2019					
	CO ₂ Emissions other than from Energy	of which:				International Aviation
		Industrial Processes and Product Use	Agriculture	Waste and Others	Indirect CO ₂	
EU27_2020	250.3	236.8	9.4	2.5	1.6	131.4
Share (%)	100.0%	94.6%	3.7%	1.0%	0.7%	
BE	15.7	15.2	0.2	0.3		5.2
BG	3.8	3.7	0.0	0.0		0.7
CZ	12.4	11.3	0.3	0.1	0.7	1.3
DK	1.9	1.4	0.2	0.0	0.3	3.1
DE	48.7	45.9	2.8			29.6
EE	0.4	0.4	0.0	0.0		0.2
IE	2.7	2.2	0.4	0.0		3.3
EL	6.0	5.9	0.0	0.0		4.0
ES	19.2	18.8	0.4			19.0
FR	35.0	31.5	2.1	1.4		18.7
HR	2.1	2.0	0.1			0.6
IT	15.4	14.9	0.4	0.1		12.4
CY	0.8	0.8	0.0		0.0	1.0
LV	0.7	0.6	0.1	0.0	0.0	0.5
LT	2.7	2.7	0.0	0.0		0.4
LU	0.6	0.6	0.0			1.8
HU	5.4	5.2	0.2	0.0		0.9
MT	0.0	0.0		0.0		0.5
NL	6.5	6.0	0.1		0.4	11.9
AT	14.1	14.0	0.1	0.0		2.9
PL	21.0	19.4	1.1	0.5		3.2
PT	4.4	4.1	0.0	0.0	0.2	4.4
RO	10.8	10.6	0.1	0.0		0.5
SI	0.9	0.8	0.0	0.0		0.1
SK	7.9	7.8	0.1	0.0	0.0	0.2
FI	4.4	4.1	0.2		0.1	2.6
SE	6.9	6.7	0.1	0.1		2.6

4.1.2 CO₂ Emissions

EU – TOTAL AND ENERGY RELATED*

Million ton CO ₂	CO ₂ Emissions – National Total*	of which:								
		Energy	Energy Industries Manufacturing Industries and Construction	Transport	Commercial/ Institutional	Residential	Agriculture/ Forestry/Fisheries	Other Sectors	Other Combustion and Fugitive Emissions	
1990	3945	3556.6	1430.3	738.9	660.1	169.0	425.8	86.9	22.4	23.2
1995	3714	3344.3	1309.3	644.3	710.2	147.1	416.8	84.9	10.5	21.2
2000	3700	3318.1	1298.3	590.8	784.9	146.6	389.2	80.7	6.8	20.9
2000	3699	3307.1	1295.7	585.6	785.3	141.5	389.0	80.4	8.8	20.8
2001	3756	3375.2	1321.7	573.7	799.7	154.4	417.6	80.3	8.2	19.7
2002	3754	3376.0	1343.9	564.2	809.6	148.1	402.9	78.2	8.6	20.4
2003	3842	3452.6	1390.7	569.7	819.7	149.3	413.6	78.9	9.3	21.4
2004	3859	3452.9	1383.3	563.1	838.3	151.4	406.7	79.4	10.4	20.2
2005	3844	3435.1	1374.9	553.0	837.6	151.7	406.7	79.4	10.8	20.9
2006	3859	3439.3	1381.4	543.6	845.8	159.3	400.1	76.5	9.7	22.9
2007	3822	3394.1	1392.6	553.3	854.4	140.0	348.0	73.5	9.7	22.7
2008	3738	3328.7	1323.4	533.1	835.5	154.0	377.0	74.0	9.2	22.4
2009	3436	3099.7	1224.1	443.3	813.2	150.7	367.4	72.4	8.1	20.5
2010	3540	3179.3	1241.9	474.9	809.6	160.1	389.7	74.2	7.9	21.1
2011	3443	3080.3	1231.1	465.7	799.2	139.8	342.1	72.6	8.2	21.6
2012	3368	3020.1	1213.5	447.3	769.7	139.5	350.8	70.7	7.1	21.6
2013	3288	2941.4	1151.0	430.4	764.5	141.1	353.6	70.8	7.1	22.9
2014	3154	2800.1	1092.0	416.3	770.4	124.5	297.8	69.8	6.9	22.4
2015	3211	2855.3	1099.2	426.1	784.6	132.7	314.6	69.1	7.0	22.0
2016	3224	2859.7	1074.2	430.2	802.2	133.7	322.0	69.4	6.4	21.5
2017	3257	2875.2	1069.3	440.4	816.5	132.5	318.1	70.0	6.4	22.0
2018	3189	2804.4	1009.9	441.9	818.4	128.9	306.7	71.0	6.0	21.7
2019	3055	2673.0	890.4	429.7	824.9	128.2	301.4	71.2	6.6	20.8

CO₂ EMISSIONS – EU – TOTAL AND ENERGY RELATED
(MILLION ton CO₂)* CO₂ emissions without LULUCF, with indirect CO₂ and including international aviation.

Source: EEA, June 2021, Eurostat 2021

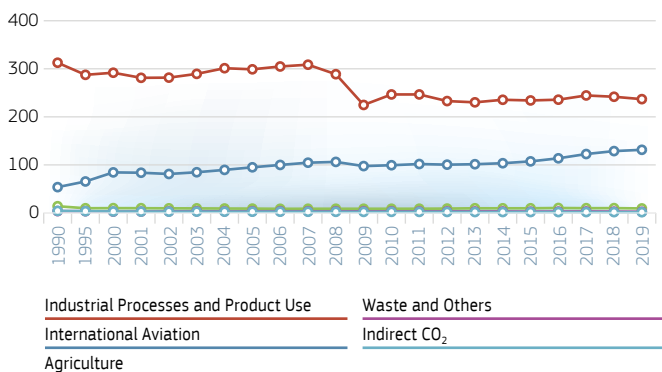
Methodology and Notes: [See Appendices](#)

4.1.2 CO₂ Emissions

EU – NOT ENERGY RELATED

Million ton CO ₂	CO ₂ Emissions – National Total*	of which:					International Aviation	International Navigation
		CO ₂ Emissions other than from Energy	Industrial Processes and Product Use	Agriculture	Waste and Others	Indirect CO ₂		
1990	3945.0	334.7	312.6	14.0	3.8	4.3	53.7	100.6
1995	3714.3	304.5	287.4	9.8	3.6	3.6	65.5	101.2
2000	3699.1	307.6	291.8	10.0	2.8	3.0	84.4	126.5
2001	3755.7	296.8	281.2	9.9	2.9	2.8	83.7	131.0
2002	3754.1	297.1	281.6	9.6	3.2	2.7	81.1	137.0
2003	3842.5	305.1	289.4	9.5	3.5	2.7	84.7	139.5
2004	3858.7	316.2	301.2	9.2	3.2	2.6	89.6	147.7
2005	3843.9	313.9	298.9	9.0	3.4	2.6	95.0	151.7
2006	3858.8	319.5	304.8	8.6	3.5	2.6	99.9	162.3
2007	3821.8	323.1	308.5	8.7	3.4	2.5	104.6	169.7
2008	3738.2	303.2	288.7	8.7	3.4	2.4	106.2	167.7
2009	3436.1	238.9	224.7	8.7	3.3	2.2	97.5	149.2
2010	3539.6	260.9	246.6	8.7	3.3	2.3	99.3	148.2
2011	3442.8	260.7	246.6	8.8	3.2	2.2	101.8	148.7
2012	3367.8	247.2	232.8	9.1	3.2	2.1	100.5	137.6
2013	3287.7	244.9	230.2	9.7	3.1	1.9	101.4	129.5
2014	3153.7	250.2	235.5	9.7	3.1	1.9	103.5	126.0
2015	3211.1	248.5	234.1	9.7	2.8	1.9	107.3	128.3
2016	3224.1	250.7	235.7	10.3	2.9	1.8	113.7	131.7
2017	3257.1	259.2	244.5	9.9	3.1	1.8	122.6	134.1
2018	3189.4	256.3	241.8	10.0	2.8	1.7	128.7	136.7
2019	3054.7	250.3	236.8	9.4	2.5	1.6	131.4	137.2

CO₂ EMISSIONS – EU – NOT ENERGY RELATED – OTHER THAN FUEL COMBUSTION (MILLION ton CO₂)



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

Source: EEA, June 2021, Eurostat 2021

Methodology and Notes: [See Appendices](#)

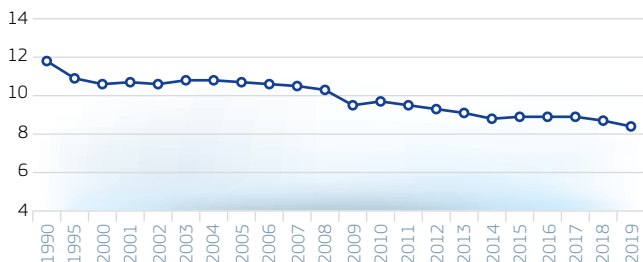
4.2 Main Emissions Indicators

4.2.1 Greenhouse Gas (GHG) Emissions per Capita

t CO ₂ eq./cap	1990	2005	2010	2015	2018	2019
EU27_2020	11.8	10.7	9.7	8.9	8.7	8.4
Index 1990	100.0%	90.6%	82.4%	75.2%	74.0%	71.2%
BE	15.0	14.3	12.7	11.0	10.8	10.6
BG	11.5	8.2	8.1	8.6	8.2	8.1
CZ	19.3	14.7	13.5	12.3	12.3	11.7
DK	14.1	12.8	11.9	9.1	8.9	8.2
DE	15.9	12.3	11.8	11.4	10.7	10.1
EE	26.2	14.3	16.0	13.9	15.5	11.3
IE	15.8	17.7	14.1	13.5	13.6	12.9
EL	10.5	12.7	10.9	9.1	9.0	8.4
ES	7.6	10.5	8.0	7.6	7.5	7.1
FR	9.5	9.0	8.1	7.1	6.9	6.8
HR	6.7	7.0	6.5	5.7	5.9	5.9
IT	9.2	10.3	8.9	7.4	7.3	7.2
CY	11.0	13.7	12.6	10.7	11.4	11.3
LV	9.8	5.0	5.8	5.6	6.1	6.1
LT	13.0	6.8	6.6	7.0	7.3	7.4
LU	34.6	31.0	26.8	20.8	20.6	20.5
HU	9.2	7.7	6.7	6.3	6.7	6.7
MT	7.9	8.1	7.9	5.8	5.3	5.5
NL	15.1	13.7	13.4	12.1	11.6	11.2
AT	10.4	11.5	10.3	9.4	9.2	9.3
PL	12.5	10.6	10.9	10.3	10.9	10.4
PT	6.0	8.4	6.8	6.8	6.9	6.6
RO	11.5	7.0	5.9	5.9	6.1	5.9
SI	9.3	10.3	9.6	8.2	8.5	8.2
SK	13.9	9.4	8.4	7.5	7.8	7.4
FI	14.5	13.6	14.5	10.4	10.7	10.1
SE	8.5	7.6	7.1	5.8	5.4	5.2

GHG PER CAPITA – EU – t CO₂ eq./cap

EU27_2020

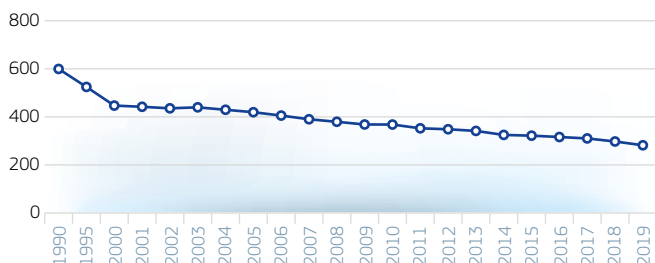


4.2.2 Greenhouse Gas (GHG) Emissions to GDP Intensity

ton CO ₂ /M€'15	1990	2005	2010	2015	2018	2019
EU27_2020	599.5	419.4	368.1	321.8	297.6	281.8
Index 1990	100.0 %	70.0 %	61.4 %	53.7 %	49.6 %	47.0 %
BE	562.9	411.0	352.9	296.1	282.0	274.4
BG	2950.0	1774.0	1441.0	1354.1	1147.0	1080.1
CZ	1854.0	1086.2	908.0	764.7	691.6	645.3
DK	398.7	273.7	257.6	187.8	172.9	155.5
DE	598.0	386.9	347.2	307.0	275.6	259.8
EE	3105.8	1081.6	1207.9	880.1	864.8	601.5
IE	762.8	391.9	339.1	239.6	207.4	188.3
EL	740.8	632.4	560.0	558.5	533.7	488.3
ES	443.6	441.1	343.5	326.3	300.4	279.5
FR	369.5	282.8	251.0	216.0	199.9	193.6
HR	776.2	684.2	622.5	544.0	490.8	479.5
IT	370.5	343.9	306.7	271.9	256.0	249.6
CY	714.2	588.6	528.2	508.9	468.3	455.3
LV	1262.6	528.5	592.8	450.8	434.9	422.1
LT	1731.1	781.0	673.7	549.7	494.8	479.0
LU	614.0	357.4	298.3	224.8	217.3	214.8
HU	1181.3	758.1	656.6	550.8	518.1	493.2
MT	762.6	492.9	426.3	257.3	212.7	215.7
NL	537.2	360.9	334.6	296.6	267.9	255.2
AT	365.7	307.5	264.5	234.2	220.1	221.3
PL	2706.7	1378.4	1115.0	912.3	846.0	768.5
PT	465.5	484.7	381.9	394.6	365.9	340.1
RO	2575.6	1235.5	854.0	731.0	630.7	584.0
SI	759.9	590.8	517.3	433.3	401.9	378.8
SK	1940.0	914.2	648.1	512.9	486.7	450.8
FI	514.0	354.3	367.3	270.2	258.5	241.9
SE	272.1	183.3	163.0	123.4	113.1	108.8

GHG TO GDP INTENSITY – EU – ton CO₂/M€'15

EU27_2020



5 Country Profiles



5

Country
Profiles

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

5.1 European Union - 27 (from 2020)

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	678.0	704.8	697.6	659.9	636.6	617.5
Solid Fossil Fuels	191.0	177.8	147.3	134.3	116.7	100.6
of which Hard Coal	100.7	87.2	63.4	52.6	41.4	37.6
of which Brown Coal	90.2	90.6	83.8	81.7	75.4	63.0
Oil and Petroleum Products	45.6	46.7	33.9	29.3	25.4	23.6
of which Crude Oil	42.4	42.7	30.8	26.3	22.0	20.4
Natural Gas	112.2	111.1	109.5	72.4	59.2	52.3
Nuclear	222.1	236.8	220.5	204.3	195.7	196.9
Renewables and Biofuels	96.1	118.4	168.3	200.6	217.6	225.0
Wastes, Non-Renewable	5.9	7.2	10.5	12.1	13.2	13.4
Net Imports	866.0	954.5	895.4	833.7	886.3	909.1
Solid Fossil Fuels	83.3	97.9	93.7	95.9	92.2	74.3
of which Hard Coal	79.0	94.8	92.0	95.9	92.9	74.5
Oil and Petroleum Products	578.5	606.1	550.2	513.9	517.1	528.0
of which Crude Oil and NGL	542.3	569.8	517.3	519.9	521.8	514.9
Natural gas	202.8	248.1	245.8	220.5	270.5	301.1
Renewables and Biofuels	0.3	1.7	5.1	3.5	5.3	4.9
Electricity	0.8	0.6	0.4	-0.6	0.8	0.3
Gross Inland Consumption	1 498.3	1 603.5	1 559.5	1 449.0	1 479.7	1 454.0
Solid Fossil Fuels	279.0	274.3	245.1	234.0	210.5	169.0
of which Hard Coal	182.7	180.5	159.4	152.3	136.0	107.1
of which Brown Coal	91.9	92.5	84.9	82.6	76.4	63.5
Oil and Petroleum Products	579.8	598.6	538.8	491.5	503.9	502.2
of which Crude and NGL	586.0	612.7	548.2	541.9	545.0	532.9
Natural Gas	308.6	359.7	362.8	296.1	324.8	335.7
Nuclear	222.1	236.8	220.5	204.3	195.7	196.9
Renewables and Biofuels	96.5	120.0	173.5	204.1	222.5	229.7
Electricity	0.8	0.6	0.4	-0.6	0.8	0.3
Waste, Non-Renewable	5.9	7.2	10.5	12.5	13.6	13.9
Available for Final Consumption	1 023.0	1 091.8	1 073.3	994.7	1 037.2	1 028.7
Final Non-Energy Consumption	101.4	104.9	98.3	88.3	91.3	90.5
Final Energy Consumption	926.0	986.4	972.8	909.9	940.5	935.5
by Fuel/Product						
Solid Fossil Fuels	33.4	28.5	27.2	23.4	22.6	19.8
Oil and Petroleum Products	396.7	405.2	366.1	338.9	344.6	345.7
Natural Gas	205.1	222.8	217.6	192.5	201.8	198.9
Renewables and Biofuels	48.8	60.7	85.8	89.8	99.5	101.7
Solid Biofuels and Renewable Waste	46.7	55.1	67.6	65.8	66.7	67.5
Solar Thermal	0.5	0.7	1.5	2.1	2.4	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	16.1	16.6
Biogases	0.3	0.5	1.4	2.3	2.5	2.6
Waste, Non-Renewable	1.0	1.3	2.6	3.5	4.4	4.5
Electricity	189.0	209.3	215.8	210.7	215.8	213.7
Heat	42.9	51.2	51.6	45.3	46.1	46.0
by Sector						
Industry	271.0	274.9	243.7	233.3	242.4	239.0
Transport	262.9	281.6	280.0	272.9	286.6	289.4
Residential	248.5	267.1	278.9	245.0	246.9	245.9
Services	104.7	127.4	139.8	129.4	132.5	128.5
Agriculture and Fishing	28.4	28.3	26.7	25.6	28.8	29.3
Others	10.4	7.2	3.7	3.7	3.4	3.4

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)	613.2	675.7	790.3	889.8	930.8	947.3
Combustible Fuels	340.1	370.3	414.8	412.2	405.7	396.9
Nuclear	124.9	123.1	120.9	112.5	111.2	110.0
Hydro	134.7	139.3	143.1	148.3	150.5	150.9
Wind	12.3	38.8	79.0	127.2	157.2	167.1
Solar	0.2	2.3	30.6	87.7	104.1	120.4
Geothermal	0.6	0.7	0.8	0.8	0.9	0.9
Tide, Wave and Ocean	0.2	0.2	0.2	0.2	0.2	0.2
Gross Electricity Generation, by Fuel (TWh)	2 656.9	2 917.7	2 981.0	2 900.6	2 940.3	2 904.0
Solid Fossil Fuels, Peat & Products, Oil Shale	813.9	825.7	721.6	718.8	610.8	460.4
Oil and Petroleum Products	172.9	137.4	82.1	63.3	54.5	52.0
Natural Gas	362.7	549.7	623.4	428.6	522.4	599.5
Nuclear	859.9	916.1	854.5	786.7	761.9	765.3
Renewables and Biofuels	435.9	477.0	682.0	883.8	968.9	1 005.3
Wastes non-RES	11.6	11.8	17.4	19.5	21.7	21.5
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			101.5	113.8	133.6	133.3
CHP Electricity Generation (TWh)			370.9	343.5	344.6	348.4
CHP in Total Electricity Generation (%)			12.5	11.9	11.7	11.7
CHP Heat Production (PJ)			2 882.9	2 667.5	2 650.9	2 629.2
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	256 058	270 540	260 495	252 070	262 691	264 786
of which LPG	3 657	4 687	5 200	5 900	5 960	5 994
of which Motor Gasoline	109 605	94 407	75 784	64 461	65 272	66 707
of which Gas/Diesel Oil	135 718	164 166	172 420	175 196	183 692	183 989
Final Consumption Biofuels	711	3 140	11 983	12 847	15 119	15 655
Pure and Blended Biogasoline	59	543	2 480	2 327	2 602	2 706
Pure and Blended Biodiesel	638	2 450	9 451	10 516	12 517	12 949
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	1 396.5	1 497.5	1 458.1	1 353.5	1 375.7	1 350.0
Final Energy Consumption 2020-2030 (Mtoe)	979.5	1 040.7	1 023.8	958.5	989.6	983.5
Primary Energy Intensity 2020-2030 (toe/M€'15)	138	135	125	111	105	102
Energy Intensity GAE/GDP2010 (toe/M€'15)	152	149	138	122	116	113
Energy per Capita – GIC/pop (kgoe/cap)	3 497	3 691	3 539	3 266	3 316	3 257
Final Electricity per Capita (KWh/cap)	5 130	5 603	5 696	5 523	5 626	5 566
Import Dependency (%)	56.3	57.8	55.7	56.0	58.2	60.7
of Solid Fossil Fuels	29.8	35.7	38.2	41.0	43.8	44.0
of Hard Coal	43.2	52.5	57.7	62.9	68.3	69.6
of Oil and Petroleum Products	93.3	93.9	94.0	96.8	94.5	96.8
of Crude and NGL	92.5	93.0	94.4	95.9	95.7	96.6
of Natural Gas	65.7	69.0	67.8	74.5	83.3	89.7
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		10.24	14.42	17.84	18.91	19.73
RE-T – Renewable Energy in Transport		2.04	5.50	6.76	8.31	8.90
RES-E – Renewable Electricity Generation		16.40	21.30	29.66	32.18	34.10
RES-H&C – Renewable Heating & Cooling		12.45	17.02	20.35	21.18	22.10
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	3 699.1	3 843.9	3 539.6	3 211.1	3 189.4	3 054.7
GHG Emissions – National total*	4 535.6	4 638.8	4 277.2	3 929.9	3 891.8	3 742.6
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	92.1	94.2	86.8	79.8	79.0	76.0
Total GHG per Capita (t CO ₂ eq/cap)	10.6	10.7	9.7	8.9	8.7	8.4

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

5.2 Belgium

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	13.6	13.8	15.9	10.9	11.9	16.0
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	7.5	11.3
Renewables and Biofuels	0.5	0.9	2.5	3.1	3.4	3.6
Wastes, Non-Renewable	0.4	0.5	0.7	0.7	0.7	0.7
Net Imports	50.6	53.4	53.6	49.9	53.0	49.8
Solid Fossil Fuels	7.3	5.2	3.7	3.2	3.2	3.1
of which Hard Coal	6.6	5.0	3.7	2.7	2.7	2.6
Oil and Petroleum Products	29.6	32.5	32.5	30.4	32.4	30.6
of which Crude Oil and NGL	34.2	32.0	33.5	32.4	33.3	34.6
Natural gas	13.3	14.8	16.8	13.9	15.1	15.5
Renewables and Biofuels	0.1	0.3	0.5	0.7	0.9	0.7
Electricity	0.4	0.5	0.0	1.8	1.5	-0.2
Gross Inland Consumption	59.4	59.2	61.5	54.0	55.2	56.8
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	22.9	22.0
of which Crude and NGL	34.1	32.1	33.5	32.4	33.3	34.6
Natural Gas	13.4	14.7	16.7	13.9	15.0	15.2
Nuclear	12.4	12.3	12.5	6.8	7.5	11.3
Renewables and Biofuels	0.6	1.2	3.0	3.7	4.2	4.4
Electricity	0.4	0.5	0.0	1.8	1.5	-0.2
Waste, Non-Renewable	0.4	0.5	0.7	0.7	0.7	0.7
Available for Final Consumption	40.8	41.6	43.1	40.9	41.1	40.1
Final Non-Energy Consumption	7.0	7.5	7.0	7.7	7.8	7.3
Final Energy Consumption	33.6	34.0	35.2	33.1	33.2	32.6
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	12.8
Natural Gas	9.3	9.4	9.9	8.9	9.5	9.4
Renewables and Biofuels	0.4	0.6	1.7	1.7	2.0	1.9
Solid Biofuels and Renewable Waste	0.4	0.6	1.2	1.2	1.3	1.2
Solar Thermal	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid Biofuels	0.0	0.0	0.4	0.3	0.5	0.5
Biogases	0.0	0.0	0.0	0.1	0.1	0.1
Waste, Non-Renewable	0.1	0.1	0.2	0.2	0.2	0.2
Electricity	6.7	6.9	7.3	7.0	7.1	7.0
Heat	0.5	0.4	0.6	0.5	0.4	0.5
by Sector						
Industry	11.6	10.3	10.9	10.6	10.7	10.3
Transport	8.2	8.7	8.9	8.9	8.9	8.8
Residential	9.5	10.0	9.6	8.3	8.1	7.9
Services	3.5	4.1	4.9	4.5	4.6	4.6
Agriculture and Fishing	0.8	0.8	0.8	0.7	0.8	0.9
Others	0.1	0.1	0.1	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)	15.7	16.1	18.8	21.2	22.8	24.1
Combustible Fuels	8.5	8.7	9.5	8.5	8.2	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	3.3	3.9
Solar	0.0	0.0	1.0	3.1	4.0	4.6
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)	84.0	86.8	95.6	69.4	74.6	93.3
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	0.1
Natural Gas	19.1	25.1	33.9	24.1	26.2	27.9
Nuclear	48.2	47.6	47.9	26.1	28.6	43.5
Renewables and Biofuels	2.3	3.4	8.0	15.6	18.2	20.4
Wastes non-RES	0.8	0.7	1.2	1.3	1.4	1.3
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			2.6	2.4	2.3	2.4
CHP Electricity Generation (TWh)			15.2	12.5	11.4	12.8
CHP in Total Electricity Generation (%)			16.0	17.7	15.1	13.7
CHP Heat Production (PJ)				104.4	89.5	94.8
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	8051	8536	8374	8475	8225	8146
of which LPG	98	84	53	64	55	55
of which Motor Gasoline	2323	1847	1235	1324	1604	1801
of which Gas/Diesel Oil	5486	6534	7072	7081	6561	6286
Final Consumption Biofuels	0	0	365	261	479	485
Pure and Blended Biogasoline	0	0	57	41	113	129
Pure and Blended Biodiesel	0	0	309	221	365	356
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	52.4	51.6	54.2	46.0	46.9	49.1
Final Energy Consumption 2020-2030 (Mtoe)	37.7	36.6	37.9	35.9	36.4	35.8
Primary Energy Intensity 2020-2030 (toe/M€'15)	159	142	139	110	108	111
Energy Intensity GAE/GDP2010 (toe/M€'15)	197	184	177	144	148	146
Energy per Capita – GIC/pop (kgoe/cap)	5805	5664	5673	4810	4839	4956
Final Electricity per Capita (KWh/cap)	7573	7678	7813	7263	7279	7155
Import Dependency (%)	78.2	80.0	77.5	83.4	82.3	76.7
of Solid Fossil Fuels	91.2	101.3	97.5	95.6	104.2	102.2
of Hard Coal	93.5	102.0	100.0	96.1	105.8	102.8
of Oil and Petroleum Products	100.2	100.8	101.3	103.8	100.7	101.5
of Crude and NGL	100.2	99.5	99.9	100.0	100.0	100.0
of Natural Gas	99.3	100.5	100.3	99.3	100.6	101.9
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		2.33	6.00	8.03	9.48	9.92
RE-T – Renewable Energy in Transport		0.67	4.80	3.91	6.69	6.81
RES-E – Renewable Electricity Generation		2.35	7.23	15.61	18.90	20.83
RES-H&C – Renewable Heating & Cooling		3.41	6.70	7.86	8.31	8.31
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	131.4	129.2	118.7	105.4	105.4	104.9
GHG Emissions – National total*	153.6	149.2	137.9	123.4	123.1	121.9
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	103.2	100.2	92.6	82.9	82.7	81.9
Total GHG per Capita (t CO ₂ eq/cap)	15.0	14.3	12.7	11.0	10.8	10.6

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

5.3 Bulgaria

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	9.9	10.6	10.5	12.1	12.2	11.9
Solid Fossil Fuels	4.3	4.2	4.9	5.9	5.3	4.9
of which Hard Coal	0.0	0.0	0.0	0.0	0.2	0.2
of which Brown Coal	4.2	4.2	4.9	5.8	5.1	4.7
Oil and Petroleum Products	0.0	0.0	0.0	0.0	0.0	0.0
of which Crude Oil	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	0.0	0.4	0.1	0.1	0.0	0.0
Nuclear	4.7	4.9	3.8	3.9	4.2	4.3
Renewables and Biofuels	0.8	1.1	1.5	2.1	2.6	2.6
Wastes, Non-Renewable	0.0	0.1	0.0	0.0	0.1	0.1
Net Imports	8.7	9.6	7.2	6.8	6.9	7.2
Solid Fossil Fuels	2.3	2.6	1.7	0.7	0.6	0.4
of which Hard Coal	2.2	2.5	1.7	0.7	0.5	0.4
Oil and Petroleum Products	4.1	5.2	4.2	4.5	4.5	5.0
of which Crude Oil and NGL	5.3	6.1	5.5	6.2	6.0	7.1
Natural gas	2.7	2.5	2.1	2.5	2.6	2.5
Renewables and Biofuels	0.0	0.0	-0.1	0.0	-0.1	-0.1
Electricity	-0.4	-0.7	-0.7	-0.9	-0.7	-0.5
Gross Inland Consumption	18.6	20.1	17.9	18.7	19.0	18.8
Solid Fossil Fuels	6.4	6.9	6.9	6.6	5.6	5.2
of which Hard Coal	2.2	2.6	1.9	0.7	0.7	0.6
of which Brown Coal	4.2	4.2	4.9	5.8	5.0	4.6
Oil and Petroleum Products	4.2	5.0	4.0	4.3	4.6	4.8
of which Crude and NGL	5.4	6.3	5.6	6.1	6.0	6.9
Natural Gas	2.9	2.8	2.3	2.6	2.6	2.4
Nuclear	4.7	4.9	3.8	3.9	4.2	4.3
Renewables and Biofuels	0.8	1.1	1.5	2.1	2.5	2.5
Electricity	-0.4	-0.7	-0.7	-0.9	-0.7	-0.5
Waste, Non-Renewable	0.0	0.1	0.0	0.0	0.1	0.1
Available for Final Consumption	9.6	10.5	9.2	10.1	10.5	10.3
Final Non-Energy Consumption	1.0	0.8	0.4	0.6	0.5	0.5
Final Energy Consumption	8.6	9.6	8.7	9.4	9.7	9.7
by Fuel/Product						
Solid Fossil Fuels	0.6	0.7	0.4	0.3	0.4	0.3
Oil and Petroleum Products	3.0	3.5	3.0	3.2	3.5	3.6
Natural Gas	1.4	1.4	1.1	1.3	1.3	1.1
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	0.1
Electricity	2.1	2.2	2.3	2.4	2.6	2.6
Heat	0.9	0.9	1.0	0.8	0.5	0.5
by Sector						
Industry	3.6	3.6	2.5	2.7	2.7	2.7
Transport	1.9	2.7	2.7	3.2	3.4	3.4
Residential	2.1	2.1	2.2	2.2	2.2	2.2
Services	0.7	0.8	1.0	1.1	1.2	1.3
Agriculture and Fishing	0.3	0.3	0.2	0.2	0.2	0.2
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	5.7	6.7	4.6	4.0	4.2	4.1
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	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)						
Solid Fossil Fuels, Peat & Products, Oil Shale	16.9	18.5	22.6	22.5	18.7	17.2
Oil and Petroleum Products	0.7	0.6	0.4	0.2	0.3	0.4
Natural Gas	2.2	1.9	2.0	1.9	2.0	2.1
Nuclear	18.2	18.7	15.2	15.4	16.1	16.6
Renewables and Biofuels	3.0	4.7	6.4	9.3	9.7	8.0
Wastes non-RES	0.0	0.0	0.0	0.0	0.0	0.0
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			1.0	1.1	1.1	1.2
CHP Electricity Generation (TWh)			3.7	2.9	3.6	3.9
CHP in Total Electricity Generation (%)			8.0	6.0	7.8	8.8
CHP Heat Production (PJ)			40.4	31.9	40.1	39.6
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 722	2 439	2 440	2 811	2 965	3 058
of which LPG	223	434	374	463	457	439
of which Motor Gasoline	697	571	611	520	478	473
of which Gas/Diesel Oil	781	1 419	1 441	1 815	2 013	2 135
Final Consumption Biofuels	0	0	13	146	164	179
Pure and Blended Biogasoline	0	0	0	32	29	32
Pure and Blended Biodiesel	0	0	10	114	135	148
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	17.7	19.2	17.4	18.0	18.4	18.2
Final Energy Consumption 2020-2030 (Mtoe)	9.1	10.1	8.8	9.5	9.9	9.8
Primary Energy Intensity 2020-2030 (toe/M€'15)	653	539	416	393	363	347
Energy Intensity GAE/GDP2010 (toe/M€'15)	692	566	430	411	377	361
Energy per Capita – GIC/pop (kgoe/cap)	2 275	2 612	2 414	2 594	2 695	2 693
Final Electricity per Capita (KWh/cap)	2 961	3 345	3 652	3 933	4 240	4 303
Import Dependency (%)						
of Solid Fossil Fuels	35.2	36.9	24.5	11.2	10.1	7.2
of Hard Coal	101.0	94.0	86.0	96.1	83.9	57.6
of Oil and Petroleum Products	96.0	102.5	101.9	101.8	95.7	102.6
of Crude and NGL	98.7	97.7	99.1	100.5	99.5	102.6
of Natural Gas	93.5	87.7	92.6	97.0	98.7	100.4
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		9.17	13.93	18.26	20.59	21.56
RE-T – Renewable Energy in Transport		0.88	1.50	6.49	8.08	7.89
RES-E – Renewable Electricity Generation		8.67	12.36	18.98	22.36	23.51
RES-H&C – Renewable Heating & Cooling		14.26	24.33	28.90	33.30	35.51
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	45.7	51.2	48.4	48.8	44.4	43.0
GHG Emissions – National total*	58.1	63.3	60.3	61.9	58.1	56.7
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	57.7	62.8	59.9	61.4	57.7	56.3
Total GHG per Capita (t CO ₂ eq/cap)	7.1	8.2	8.1	8.6	8.2	8.1

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

5.4 Czechia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	30.8	33.2	32.0	28.7	27.5	26.7
Solid Fossil Fuels	25.0	23.6	20.8	16.9	14.7	13.4
of which Hard Coal	9.4	8.4	7.5	5.4	2.9	2.3
of which Brown Coal	15.6	15.2	13.3	11.5	11.8	11.1
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	7.2	6.7	7.4	7.5
Renewables and Biofuels	1.6	2.3	3.3	4.4	4.6	5.0
Wastes, Non-Renewable	0.1	0.2	0.2	0.3	0.3	0.4
Net Imports	9.4	12.7	11.5	13.5	16.1	17.6
Solid Fossil Fuels	-4.7	-3.3	-2.9	-0.3	0.9	1.3
of which Hard Coal	-3.5	-2.8	-2.7	-0.4	1.2	1.5
Oil and Petroleum Products	7.5	9.7	9.0	8.7	9.8	9.6
of which Crude Oil and NGL	5.6	7.7	7.8	7.2	7.6	7.9
Natural gas	7.5	7.5	6.8	6.2	6.6	7.9
Renewables and Biofuels	0.0	-0.2	-0.1	0.0	0.0	-0.1
Electricity	-0.9	-1.1	-1.3	-1.1	-1.2	-1.1
Gross Inland Consumption	41.3	45.5	45.5	42.1	43.6	43.0
Solid Fossil Fuels	21.6	20.2	18.8	16.4	15.8	14.2
of which Hard Coal	6.2	5.6	5.1	4.9	4.2	3.6
of which Brown Coal	15.6	14.8	13.5	11.2	11.6	10.7
Oil and Petroleum Products	7.9	10.0	9.3	8.9	9.8	9.9
of which Crude and NGL	5.8	7.8	8.0	7.3	7.7	8.0
Natural Gas	7.5	7.7	8.1	6.5	6.8	7.2
Nuclear	3.5	6.5	7.2	6.7	7.4	7.5
Renewables and Biofuels	1.6	2.1	3.2	4.4	4.6	4.9
Electricity	-0.9	-1.1	-1.3	-1.1	-1.2	-1.1
Waste, Non-Renewable	0.1	0.2	0.2	0.3	0.3	0.4
Available for Final Consumption	26.4	28.2	27.7	25.9	27.2	27.2
Final Non-Energy Consumption	2.1	3.0	2.9	2.5	3.0	3.0
Final Energy Consumption	24.0	24.9	24.1	23.1	24.2	24.3
by Fuel/Product						
Solid Fossil Fuels	4.2	2.9	1.9	1.6	1.7	1.5
Oil and Petroleum Products	5.2	6.5	6.3	6.4	6.7	6.7
Natural Gas	5.9	6.2	6.1	5.0	5.2	5.2
Renewables and Biofuels	1.2	1.7	2.3	2.8	3.0	3.2
Solid Biofuels and Renewable Waste	1.1	1.6	2.0	2.3	2.3	2.5
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	0.1	0.0	0.2	0.3	0.3	0.3
Biogases	0.0	0.0	0.1	0.1	0.2	0.1
Waste, Non-Renewable	0.1	0.1	0.2	0.2	0.3	0.3
Electricity	4.2	4.6	4.7	4.7	5.0	5.0
Heat	2.6	2.5	2.4	2.0	2.1	2.0
by Sector						
Industry	9.2	8.7	6.9	6.5	6.7	6.6
Transport	4.2	5.7	5.9	6.2	6.7	6.8
Residential	6.4	6.7	7.4	6.8	7.0	7.0
Services	3.0	3.1	3.2	3.0	3.1	3.2
Agriculture and Fishing	0.7	0.5	0.5	0.6	0.6	0.6
Others	0.5	0.1	0.1	0.1	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	11.5	11.5	12.0	13.0	13.3	13.0
Nuclear	1.8	3.8	3.9	4.3	4.3	4.3
Hydro	2.1	2.2	2.2	2.3	2.3	2.3
Wind	0.0	0.0	0.2	0.3	0.3	0.3
Solar	0.0	0.0	1.7	2.1	2.1	2.1
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	52.8	49.5	46.9	41.1	41.2	37.3
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	6.1	7.9
Nuclear	13.6	24.7	28.0	26.8	29.9	30.2
Renewables and Biofuels	2.8	3.8	6.5	10.7	10.5	11.2
Wastes non-RES	0.0	0.0	0.0	0.1	0.1	0.1
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			4.8	4.6	8.5	8.5
CHP Electricity Generation (TWh)			12.2	11.8	10.0	9.9
CHP in Total Electricity Generation (%)			14.2	14.0	11.4	11.4
CHP Heat Production (PJ)			135.7	106.0	102.1	99.1
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	3 915	5 551	5 470	5 693	6 125	6 189
of which LPG	68	74	81	104	96	92
of which Motor Gasoline	1 922	2 125	1 868	1 570	1 601	1 602
of which Gas/Diesel Oil	1 886	3 322	3 492	3 981	4 393	4 448
Final Consumption Biofuels	62	3	231	297	309	340
Pure and Blended Biogasoline	0	0	58	63	61	74
Pure and Blended Biodiesel	62	3	173	233	247	267
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	39.1	42.5	42.5	39.4	40.5	39.8
Final Energy Consumption 2020-2030 (Mtoe)	25.1	26.1	25.3	24.2	25.3	25.3
Primary Energy Intensity 2020-2030 (toe/M€'15)	344	308	273	233	215	206
Energy Intensity GAE/GDP2010 (toe/M€'15)	363	330	292	248	231	223
Energy per Capita – GIC/pop (kgoe/cap)	4 017	4 465	4 346	3 990	4 113	4 037
Final Electricity per Capita (KWh/cap)	4 804	5 256	5 183	5 169	5 476	5 487
Import Dependency (%)						
of Solid Fossil Fuels	-22.0	-16.2	-15.3	-1.8	5.8	8.9
of Hard Coal	-56.4	-49.4	-53.9	-8.6	28.4	42.3
of Oil and Petroleum Products	95.3	97.5	96.5	97.8	99.5	97.5
of Crude and NGL	95.2	99.3	97.5	98.4	98.6	98.6
of Natural Gas	99.8	97.8	84.8	95.1	96.8	109.7
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		7.12	10.51	15.07	15.14	16.24
RE-T – Renewable Energy in Transport		1.10	5.22	6.54	6.56	7.83
RES-E – Renewable Electricity Generation		3.78	7.52	14.07	13.71	14.05
RES-H&C – Renewable Heating & Cooling		10.84	14.10	19.78	20.63	22.65
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	128.9	127.7	119.5	106.6	108.1	102.7
GHG Emissions – National total*	151.1	149.8	141.6	129.7	130.5	124.6
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	75.7	75.1	71.0	65.0	65.4	62.5
Total GHG per Capita (t CO ₂ eq/cap)	14.7	14.7	13.5	12.3	12.3	11.7

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

5.5 Denmark

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	27.8	31.4	23.4	16.2	13.9	12.5
Solid Fossil Fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which Hard Coal	0.0	0.0	0.0	0.0	0.0	0.0
of which Brown Coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and Petroleum Products	18.3	19.0	12.5	7.9	5.8	5.2
of which Crude Oil	18.3	19.0	12.5	7.9	5.8	5.2
Natural Gas	7.4	9.4	7.3	4.1	3.7	2.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	1.8	2.5	3.2	3.8	4.0	4.2
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	4.2	7.0
Solid Fossil Fuels	3.8	3.5	2.6	1.5	1.6	1.3
of which Hard Coal	3.8	3.5	2.6	1.5	1.6	1.3
Oil and Petroleum Products	-8.5	-9.4	-3.8	0.4	1.4	3.4
of which Crude Oil and NGL	-10.0	-11.2	-5.1	-0.4	2.0	2.8
Natural gas	-2.9	-5.0	-3.0	-1.3	-1.0	-0.1
Renewables and Biofuels	0.1	0.4	0.9	1.2	1.7	1.8
Electricity	0.1	0.1	-0.1	0.5	0.4	0.5
Gross Inland Consumption	19.5	19.8	20.4	17.4	17.9	17.3
Solid Fossil Fuels	4.0	3.7	3.8	1.8	1.6	0.9
of which Hard Coal	4.0	3.7	3.8	1.8	1.6	0.9
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	6.9
of which Crude and NGL	8.3	7.9	7.4	7.5	7.8	7.8
Natural Gas	4.4	4.4	4.4	2.9	2.7	2.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	1.9	2.9	4.0	5.0	5.7	6.0
Electricity	0.1	0.1	-0.1	0.5	0.4	0.5
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	13.6	14.2	14.0
Final Non-Energy Consumption	0.3	0.3	0.3	0.3	0.2	0.2
Final Energy Consumption	14.0	14.7	14.9	13.5	13.8	13.6
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	5.1
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	1.7	1.7
Solid Biofuels and Renewable Waste	0.6	0.9	1.2	1.2	1.2	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	0.2	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	4.3
Residential	4.2	4.5	5.0	4.4	4.4	4.4
Services	1.8	2.0	2.1	1.9	2.0	1.9
Agriculture and Fishing	1.0	0.9	0.9	0.8	0.7	0.7
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	12.3	13.0	13.4	14.0	15.0	15.2
Nuclear	9.9	9.9	9.6	8.1	7.9	8.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0
Solar	2.4	3.1	3.8	5.1	6.1	6.1
Geothermal	0.0	0.0	0.0	0.8	1.0	1.1
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	36.0	36.2	38.9	28.9	30.4	29.5
Oil and Petroleum Products	16.7	15.5	17.0	7.1	6.6	3.3
Natural Gas	4.4	1.4	0.8	0.3	0.3	0.2
Nuclear	8.8	8.8	7.9	1.8	2.1	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	20.8	23.1
Wastes non-RES	0.6	0.8	0.7	0.8	0.7	0.8
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			5.8	6.1	5.9	5.1
CHP Electricity Generation (TWh)			19.1	11.6	11.4	10.6
CHP in Total Electricity Generation (%)			49.2	40.0	37.6	35.9
CHP Heat Production (PJ)			124.7	93.3	95.2	91.9
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	4,002	4,427	4,311	3,949	4,062	3,982
of which LPG	10	8	0	0	0	0
of which Motor Gasoline	2,019	1,922	1,574	1,389	1,316	1,318
of which Gas/Diesel Oil	1,863	2,372	2,649	2,507	2,699	2,605
Final Consumption Biofuels	0	0	27	214	214	226
Pure and Blended Biogasoline	0	0	27	44	43	44
Pure and Blended Biodiesel	0	0	0	170	171	183
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	19.1	19.4	20.0	16.9	17.4	16.8
Final Energy Consumption 2020-2030 (Mtoe)	14.7	15.5	15.5	14.2	14.6	14.4
Primary Energy Intensity 2020-2030 (toe/M€'15)	81	77	78	62	59	55
Energy Intensity GAE/GDP2010 (toe/M€'15)	88	81	82	66	63	59
Energy per Capita – GIC/pop (kgoe/cap)	3,658	3,663	3,688	3,069	3,100	2,982
Final Electricity per Capita (KWh/cap)	6,089	6,184	5,792	5,444	5,337	5,372
Import Dependency (%)						
of Solid Fossil Fuels	-35.9	-50.6	-16.0	13.2	23.0	38.8
of Hard Coal	94.9	94.4	69.4	85.0	102.3	154.0
of Oil and Petroleum Products	94.8	94.3	69.3	85.0	102.2	154.5
of Crude and NGL	-84.1	-104.4	-44.3	5.3	18.3	44.9
of Natural Gas	-120.5	-141.3	-68.8	-4.9	25.3	36.0
of Natural Gas	-64.8	-113.9	-68.3	-46.5	-36.8	-5.8
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		15.96	21.89	30.87	35.41	37.20
RE-T – Renewable Energy in Transport		0.44	1.15	6.43	6.92	7.17
RES-E – Renewable Electricity Generation		24.65	32.74	51.29	62.40	65.35
RES-H&C – Renewable Heating & Cooling		22.78	30.45	40.23	45.55	48.02
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	57.5	54.8	52.1	38.1	38.0	34.3
GHG Emissions – National total*	73.5	69.3	66.0	51.3	51.2	47.4
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	101.2	95.5	90.8	70.6	70.5	65.2
Total GHG per Capita (t CO ₂ eq/cap)	13.8	12.8	11.9	9.1	8.9	8.2

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

5.6 Germany

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	135.5	138.1	132.1	121.0	114.0	105.9
Solid Fossil Fuels	60.6	56.5	45.9	43.0	37.9	28.4
of which Hard Coal	24.2	18.0	9.2	4.6	1.9	0.0
of which Brown Coal	36.4	38.4	36.7	38.4	36.0	28.4
Oil and Petroleum Products	4.6	5.5	4.1	4.0	4.0	3.7
of which Crude Oil	3.2	3.6	2.5	2.5	2.1	2.0
Natural Gas	15.8	14.3	11.1	6.3	4.7	4.4
Nuclear	43.8	42.1	36.2	23.6	19.6	19.3
Renewables and Biofuels	9.0	18.0	30.9	39.8	43.6	45.8
Wastes, Non-Renewable	1.7	1.8	3.9	4.3	4.2	4.2
Net Imports	204.9	212.0	204.6	199.1	200.9	207.5
Solid Fossil Fuels	21.7	26.0	31.6	36.1	29.4	26.7
of which Hard Coal	17.2	23.8	29.1	35.2	29.0	26.5
Oil and Petroleum Products	126.1	123.7	112.2	108.4	105.2	108.4
of which Crude Oil and NGL	101.5	114.5	94.0	92.3	86.5	87.2
Natural gas	56.9	61.9	61.6	58.7	70.5	75.7
Renewables and Biofuels	0.0	0.8	0.4	0.2	0.0	-0.4
Electricity	0.3	-0.4	-1.3	-4.2	-4.2	-2.8
Gross Inland Consumption	342.4	346.5	338.2	318.1	315.0	305.6
Solid Fossil Fuels	84.8	81.8	79.1	79.4	69.7	53.8
of which Hard Coal	43.8	41.2	39.8	40.2	33.2	25.2
of which Brown Coal	37.2	38.4	36.7	38.1	36.2	28.5
Oil and Petroleum Products	131.1	124.6	113.2	109.9	108.5	110.0
of which Crude and NGL	108.2	117.7	96.6	95.1	89.1	88.7
Natural Gas	71.9	77.8	75.9	65.2	73.6	75.6
Nuclear	43.8	42.1	36.2	23.6	19.6	19.3
Renewables and Biofuels	9.0	18.8	31.3	39.9	43.7	45.5
Electricity	0.3	-0.4	-1.3	-4.2	-4.2	-2.8
Waste, Non-Renewable	1.7	1.8	3.9	4.3	4.2	4.2
Available for Final Consumption	234.8	235.9	233.1	220.8	224.3	223.0
Final Non-Energy Consumption	25.3	24.7	22.6	21.3	21.7	21.6
Final Energy Consumption	207.2	207.3	209.9	200.0	200.9	200.6
by Fuel/Product						
Solid Fossil Fuels	5.6	4.0	4.4	4.7	3.8	3.4
Oil and Petroleum Products	92.3	82.2	74.9	73.0	70.1	72.0
Natural Gas	53.0	52.6	54.0	49.3	53.2	52.4
Renewables and Biofuels	4.8	10.1	16.2	15.6	16.4	16.6
Solid Biofuels and Renewable Waste	4.4	7.4	11.2	9.9	10.2	10.4
Solar Thermal	0.1	0.3	0.5	0.7	0.8	0.7
Geothermal	0.0	0.0	0.1	0.1	0.1	0.1
Liquid Biofuels	0.2	1.9	3.2	2.7	2.9	2.8
Biogases	0.1	0.3	0.8	1.3	1.3	1.4
Waste, Non-Renewable	0.0	0.3	1.0	1.0	1.2	1.3
Electricity	41.6	44.9	45.7	44.3	44.1	43.0
Heat	6.8	10.6	11.3	9.5	9.6	9.6
by Sector						
Industry	51.4	54.5	56.7	56.1	57.1	55.7
Transport	60.0	54.8	53.1	55.1	55.6	56.4
Residential	65.3	63.7	63.8	55.0	55.8	57.7
Services	25.8	33.7	34.8	32.2	29.0	27.2
Agriculture and Fishing	0.3	0.2	1.3	1.5	3.3	3.6
Others	4.3	0.3	0.2	0.1	0.1	0.1

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)	118.9	128.5	162.9	203.3	228.8	231.8
Combustible Fuels	80.8	76.4	85.8	97.0	103.0	101.4
Nuclear	22.4	20.4	20.5	10.8	10.8	9.5
Hydro	9.5	10.9	11.2	11.3	10.7	10.7
Wind	6.1	18.3	27.0	44.6	58.7	60.7
Solar	0.1	2.1	18.0	39.2	45.2	49.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)	576.5	620.2	631.0	646.5	641.3	607.6
Solid Fossil Fuels, Peat & Products, Oil Shale	296.7	288.1	262.9	272.2	228.2	171.5
Oil and Petroleum Products	4.8	12.0	8.7	6.2	5.2	4.8
Natural Gas	60.0	83.6	100.9	74.5	94.2	101.2
Nuclear	169.6	163.1	140.6	91.8	76.0	75.1
Renewables and Biofuels	39.7	70.2	111.6	194.7	230.7	248.4
Wastes non-RES	5.8	3.3	6.4	7.1	7.1	6.8
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			24.6	37.1	53.9	54.8
CHP Electricity Generation (TWh)			83.2	78.8	88.5	86.9
CHP in Total Electricity Generation (%)			13.2	12.2	13.8	14.3
CHP Heat Production (PJ)			675.8	669.9	676.1	663.2
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	58 362	51 045	48 714	51 194	51 248	51 891
of which LPG	71	122	619	594	551	478
of which Motor Gasoline	30 241	23 722	18 859	16 926	16 539	16 715
of which Gas/Diesel Oil	27 110	26 364	28 449	32 944	33 506	33 966
Final Consumption Biofuels	236	1 824	2 883	2 536	2 663	2 623
Pure and Blended Biogasoline	0	153	749	744	748	720
Pure and Blended Biodiesel	222	1 526	2 090	1 791	1 915	1 902
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	317.1	321.6	315.2	295.9	292.1	282.7
Final Energy Consumption 2020-2030 (Mtoe)	220.2	219.7	223.0	212.7	215.4	214.5
Primary Energy Intensity 2020-2030 (toe/M€'15)	124	123	113	98	91	87
Energy Intensity GAE/GDP2010 (toe/M€'15)	135	133	123	106	99	95
Energy per Capita – GIC/pop (kgoe/cap)	4 168	4 200	4 135	3 918	3 805	3 681
Final Electricity per Capita (KWh/cap)	5 884	6 332	6 504	6 342	6 192	6 017
Import Dependency (%)	59.4	60.7	60.0	62.1	63.4	67.6
of Solid Fossil Fuels	25.6	31.7	40.0	45.4	42.1	49.6
of Hard Coal	39.2	57.7	73.2	87.6	87.4	105.3
of Oil and Petroleum Products	94.6	97.3	96.8	96.5	95.5	97.3
of Crude and NGL	93.8	97.3	97.3	97.1	97.1	98.3
of Natural Gas	79.1	79.6	81.2	90.1	95.9	100.1
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		7.17	11.67	14.91	16.67	17.35
RE-T – Renewable Energy in Transport		3.95	6.41	6.57	7.92	7.68
RES-E – Renewable Electricity Generation		10.58	18.24	30.88	37.85	40.82
RES-H&C – Renewable Heating & Cooling		7.71	12.06	13.44	14.12	14.55
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	919.1	889.5	857.2	820.2	784.0	741.1
GHG Emissions – National total*	1 062.0	1 015.5	966.3	929.0	886.1	839.7
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	84.2	80.6	76.7	73.7	70.3	66.6
Total GHG per Capita (t CO ₂ eq/cap)	12.9	12.3	11.8	11.4	10.7	10.1

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

5.7 Estonia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	3.2	3.9	4.9	5.6	6.6	4.9
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	0.5	0.7	1.0	1.3	1.7	1.9
Wastes, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Net Imports	1.6	1.5	0.9	0.6	0.1	0.2
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	0.4	0.3
of which Crude Oil and NGL	0.0	0.0	0.0	0.0	0.0	0.0
Natural gas	0.7	0.8	0.6	0.4	0.4	0.4
Renewables and Biofuels	0.0	-0.1	-0.1	-0.4	-0.6	-0.6
Electricity	-0.1	-0.1	-0.3	-0.1	-0.2	0.2
Gross Inland Consumption	4.7	5.3	5.7	5.4	6.2	4.8
Solid Fossil Fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which Hard Coal	0.1	0.0	0.0	0.0	0.0	0.0
of which Brown Coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and Petroleum Products	0.7	0.8	0.6	0.3	0.1	0.1
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	1.2	1.2
Electricity	-0.1	-0.1	-0.3	-0.1	-0.2	0.2
Waste, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Available for Final Consumption	2.7	3.1	3.0	2.8	3.1	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	2.8	2.9	2.8
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	0.3	0.2
Renewables and Biofuels	0.4	0.4	0.6	0.5	0.5	0.4
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	1.0
Services	0.3	0.4	0.4	0.5	0.5	0.5
Agriculture and Fishing	0.1	0.1	0.1	0.1	0.1	0.1
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	2.8	2.6	2.8	2.9	2.8	2.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.1	0.3	0.3	0.3
Solar	0.0	0.0	0.0	0.0	0.0	0.1
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	7.7	9.3	11.2	7.9	9.4	4.3
Oil and Petroleum Products	0.1	0.0	0.0	0.1	0.1	0.0
Natural Gas	0.8	0.8	0.7	0.5	0.8	1.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	0.0	0.1	1.0	1.6	2.0	2.1
Wastes non-RES	0.0	0.0	0.0	0.1	0.1	0.1
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.4	0.4	0.2	0.2
CHP Electricity Generation (TWh)			1.3	1.2	1.1	1.0
CHP in Total Electricity Generation (%)			10.3	11.9	8.9	13.6
CHP Heat Production (PJ)			12.3	12.5	3.5	3.6
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	555	709	739	751	804	788
of which LPG	1	1	2	5	9	11
of which Motor Gasoline	295	303	289	241	272	273
of which Gas/Diesel Oil	258	402	447	503	521	503
Final Consumption Biofuels	0	0	8	3	17	27
Pure and Blended Biogasoline	0	0	4	3	5	7
Pure and Blended Biodiesel	0	0	3	0	12	20
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	4.6	5.0	5.6	5.3	6.1	4.7
Final Energy Consumption 2020-2030 (Mtoe)	2.4	2.9	2.9	2.8	3.0	2.9
Primary Energy Intensity 2020-2030 (toe/M€'15)	362	281	315	257	256	190
Energy Intensity GAE/GDP2010 (toe/M€'15)	384	300	333	276	275	202
Energy per Capita – GIC/pop (kgoe/cap)	3378	3872	4240	4138	4684	3641
Final Electricity per Capita (KWh/cap)	3579	4445	5181	5211	5679	5523
Import Dependency (%)						
of Solid Fossil Fuels	125.2	88.4	132.6	-6.8	85.2	107.2
of Hard Coal	116.1	96.4	118.3	24.1	88.0	96.7
of Oil and Petroleum Products	101.5	98.8	95.8	101.7	84.3	129.5
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	104.0	105.4
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		17.43	24.60	28.53	29.99	31.89
RE-T – Renewable Energy in Transport		0.24	0.43	0.41	3.30	5.15
RES-E – Renewable Electricity Generation		1.13	10.29	15.62	19.69	22.00
RES-H&C – Renewable Heating & Cooling		32.22	43.25	49.33	53.68	52.28
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	15.5	17.3	19.1	16.0	18.2	12.6
GHG Emissions – National total*	17.6	19.4	21.3	18.3	20.4	14.9
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	42.7	47.1	51.8	44.4	49.6	36.2
Total GHG per Capita (t CO ₂ eq/cap)	12.5	14.3	16.0	13.9	15.5	11.3

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

5.7 Ireland

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	2.2	1.7	1.8	2.0	5.0	4.1
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	2.7	2.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	0.2	0.4	0.6	1.0	1.3	1.5
Wastes, Non-Renewable	0.0	0.0	0.0	0.1	0.1	0.1
Net Imports	12.4	14.0	13.3	12.7	10.2	10.3
Solid Fossil Fuels	1.7	1.9	1.0	1.5	0.9	0.2
of which Hard Coal	1.7	1.9	0.9	1.5	0.9	0.2
Oil and Petroleum Products	8.2	8.9	7.7	7.5	7.4	7.5
of which Crude Oil and NGL	3.0	3.3	3.0	3.7	3.1	2.6
Natural gas	2.5	3.0	4.5	3.6	1.7	2.4
Renewables and Biofuels	0.0	0.0	0.1	0.1	0.1	0.2
Electricity	0.0	0.2	0.0	0.1	0.0	0.1
Gross Inland Consumption	14.4	15.5	15.1	14.2	15.0	15.0
Solid Fossil Fuels	1.8	1.9	1.2	1.5	0.8	0.4
of which Hard Coal	1.8	1.9	1.2	1.4	0.8	0.4
of which Brown Coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and Petroleum Products	8.2	8.8	7.8	7.0	7.4	7.4
of which Crude and NGL	3.4	3.4	3.0	3.4	3.1	2.6
Natural Gas	3.4	3.5	4.7	3.8	4.5	4.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	0.2	0.4	0.7	1.1	1.5	1.6
Electricity	0.0	0.2	0.0	0.1	0.0	0.1
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	11.4	11.5
Final Non-Energy Consumption	0.7	0.5	0.3	0.2	0.2	0.2
Final Energy Consumption	10.2	11.8	11.1	10.5	11.4	11.3
by Fuel/Product						
Solid Fossil Fuels	0.4	0.5	0.4	0.3	0.3	0.2
Oil and Petroleum Products	6.5	7.4	6.4	5.6	6.0	5.9
Natural Gas	1.2	1.4	1.6	1.7	2.0	2.0
Renewables and Biofuels	0.1	0.2	0.3	0.4	0.5	0.5
Solid Biofuels and Renewable Waste	0.1	0.2	0.2	0.2	0.2	0.2
Solar Thermal	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid Biofuels	0.0	0.0	0.1	0.1	0.2	0.2
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, Non-Renewable	0.0	0.0	0.0	0.0	0.1	0.1
Electricity	1.7	2.1	2.2	2.2	2.4	2.4
Heat	0.0	0.0	0.0	0.0	0.0	0.0
by Sector						
Industry	2.5	2.5	1.8	2.0	2.3	2.3
Transport	3.5	4.3	3.9	3.9	4.1	4.1
Residential	2.7	3.2	3.6	2.8	3.0	2.9
Services	1.2	1.4	1.6	1.6	1.7	1.8
Agriculture and Fishing	0.4	0.4	0.3	0.2	0.3	0.2
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)	4.7	6.1	8.1	9.7	11.0	11.1
Combustible Fuels	4.1	5.1	6.5	6.7	6.8	6.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.5	0.5	0.2	0.5	0.5	0.5
Wind	0.1	0.5	1.4	2.5	3.7	4.2
Solar	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)	24.0	26.0	28.4	28.4	31.1	30.9
Solid Fossil Fuels, Peat & Products, Oil Shale	8.6	8.8	5.7	7.4	4.2	2.4
Oil and Petroleum Products	4.6	3.3	0.6	0.4	0.1	0.3
Natural Gas	9.3	11.6	18.1	12.4	16.0	15.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	1.5	2.2	3.9	8.1	10.4	12.0
Wastes non-RES	0.0	0.0	0.0	0.1	0.3	0.3
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.3	0.3	0.3	0.3
CHP Electricity Generation (TWh)			1.9	2.1	2.1	2.1
CHP in Total Electricity Generation (%)			6.7	7.5	6.8	6.7
CHP Heat Production (PJ)			12.0	12.6	11.6	11.2
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	3 505	4 266	3 809	3 756	3 923	3 905
of which LPG	2	1	1	3	2	2
of which Motor Gasoline	1 590	1 823	1 527	1 020	821	774
of which Gas/Diesel Oil	1 855	2 378	2 236	2 727	3 095	3 124
Final Consumption Biofuels	0	1	93	86	154	188
Pure and Blended Biogasoline	0	0	30	24	27	26
Pure and Blended Biodiesel	0	1	62	62	127	162
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	13.7	14.9	14.7	14.0	14.7	14.7
Final Energy Consumption 2020-2030 (Mtoe)	10.8	12.6	11.9	11.3	12.4	12.4
Primary Energy Intensity 2020-2030 (toe/M€'15)	96	80	78	53	46	44
Energy Intensity GAE/GDP2010 (toe/M€'15)	101	84	80	55	48	45
Energy per Capita – GIC/pop (kgoe/cap)	3 804	3 762	3 311	3 036	3 095	3 050
Final Electricity per Capita (KWh/cap)	5 371	5 923	5 583	5 513	5 771	5 796
Import Dependency (%)	85.4	89.7	87.5	88.7	67.7	68.4
of Solid Fossil Fuels	93.3	100.8	77.7	103.0	112.9	54.7
of Hard Coal	93.1	100.8	77.5	103.0	113.2	53.9
of Oil and Petroleum Products	98.8	100.0	97.5	104.6	98.0	98.8
of Crude and NGL	89.8	98.9	101.6	108.2	98.7	100.9
of Natural Gas	72.1	86.1	95.3	96.3	38.8	53.0
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		2.82	5.78	9.04	10.89	11.98
RE-T – Renewable Energy in Transport		0.08	2.49	5.94	7.17	8.93
RES-E – Renewable Electricity Generation		7.20	15.64	25.53	33.26	36.49
RES-H&C – Renewable Heating & Cooling		3.44	4.32	6.19	6.35	6.32
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	47.1	50.6	44.1	41.2	42.5	40.6
GHG Emissions – National total*	70.3	72.8	64.3	63.0	65.8	63.1
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	126.7	131.2	115.8	113.5	118.7	113.8
Total GHG per Capita (t CO ₂ eq/cap)	18.6	17.7	14.1	13.5	13.6	12.9

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

5.9 Greece

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	10.0	10.4	9.5	8.5	7.5	6.4
Solid Fossil Fuels	8.2	8.5	7.3	5.7	4.3	3.1
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	4.3	3.1
Oil and Petroleum Products	0.3	0.1	0.1	0.1	0.2	0.2
of which Crude Oil	0.3	0.1	0.1	0.1	0.2	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	3.0	3.1
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	18.4	19.3
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	13.4	13.7
of which Crude Oil and NGL	19.2	17.6	19.1	21.8	23.9	22.4
Natural gas	1.7	2.3	3.2	2.7	4.1	4.4
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	0.9
Gross Inland Consumption	27.9	31.1	28.3	24.1	23.8	23.6
Solid Fossil Fuels	9.0	9.0	7.9	5.6	4.6	3.2
of which Hard Coal	0.7	0.3	0.4	0.2	0.3	0.2
of which Brown Coal	8.3	8.6	7.5	5.4	4.3	3.0
Oil and Petroleum Products	15.6	17.7	14.5	12.0	11.4	11.8
of which Crude Oil and NGL	19.3	18.5	19.2	21.5	24.1	22.8
Natural Gas	1.7	2.4	3.2	2.7	4.1	4.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	1.5	1.7	2.2	2.8	3.1	3.2
Electricity	0.0	0.3	0.5	0.8	0.5	0.9
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	15.9	16.4
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	15.2	15.4
by Fuel/Product						
Solid Fossil Fuels	0.9	0.4	0.3	0.2	0.3	0.2
Oil and Petroleum Products	11.9	13.6	11.4	8.6	8.1	8.2
Natural Gas	0.3	0.6	0.8	1.0	0.8	0.9
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	0.8
Solar Thermal	0.2	0.2	0.2	0.3	0.3	0.3
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid Biofuels	0.0	0.0	0.1	0.2	0.2	0.2
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, Non-Renewable	0.0	0.0	0.0	0.1	0.0	0.0
Electricity	3.7	4.4	4.6	4.4	4.3	4.3
Heat	0.0	0.0	0.0	0.0	0.1	0.1
by Sector						
Industry	4.5	4.2	3.5	3.1	2.7	2.6
Transport	6.5	7.4	7.5	5.8	5.9	6.0
Residential	4.6	5.6	4.7	4.5	3.9	4.1
Services	1.3	2.0	2.0	1.9	2.1	2.1
Agriculture and Fishing	1.1	1.2	0.8	0.3	0.3	0.3
Others	0.0	0.0	0.0	0.3	0.2	0.2

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)	10.9	13.3	15.3	18.9	19.6	20.5
Combustible Fuels	7.6	9.7	10.6	10.9	10.6	10.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	3.1	3.1	3.2	3.4	3.4	3.4
Wind	0.2	0.5	1.3	2.1	2.9	3.6
Solar	0.0	0.0	0.2	2.6	2.7	2.8
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)	53.8	60.0	57.4	51.9	53.3	48.6
Solid Fossil Fuels, Peat & Products, Oil Shale	34.3	35.5	30.8	22.1	17.2	12.1
Oil and Petroleum Products	8.9	9.2	6.1	5.7	5.5	5.6
Natural Gas	5.9	8.2	9.8	9.1	14.1	14.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	4.6	7.0	10.6	14.9	16.2	16.1
Wastes non-RES	0.2	0.1	0.1	0.1	0.3	0.3
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.6	0.6	0.4	0.4
CHP Electricity Generation (TWh)			2.5	2.0	2.4	2.2
CHP in Total Electricity Generation (%)			4.3	3.9	4.5	4.5
CHP Heat Production (PJ)			12.7	10.9	17.4	15.3
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	6 438	7 343	7 322	5 563	5 706	5 826
of which LPG	17	12	46	257	236	240
of which Motor Gasoline	3 418	4 114	3 867	2 574	2 403	2 348
of which Gas/Diesel Oil	2 252	2 489	2 730	2 254	2 504	2 670
Final Consumption Biofuels	0	0	125	142	159	185
Pure and Blended Biogasoline	0	0	0	0	0	24
Pure and Blended Biodiesel	0	0	125	142	159	161
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	27.2	30.3	27.2	23.4	22.6	22.3
Final Energy Consumption 2020-2030 (Mtoe)	18.7	21.0	19.1	16.6	15.9	16.2
Primary Energy Intensity 2020-2030 (toe/M€'15)	150	138	126	133	125	121
Energy Intensity GAE/GDP2010 (toe/M€'15)	173	154	144	147	144	142
Energy per Capita – GIC/pop (kgoe/cap)	2 589	2 831	2 549	2 218	2 219	2 196
Final Electricity per Capita (KWh/cap)	4 005	4 640	4 777	4 677	4 606	4 681
Import Dependency (%)	69.1	68.2	68.6	71.0	70.7	74.1
of Solid Fossil Fuels	8.5	4.1	5.1	2.8	5.1	6.4
of Hard Coal	105.8	112.4	100.5	91.5	87.4	105.0
of Oil and Petroleum Products	100.3	97.8	98.7	105.5	97.9	95.7
of Crude and NGL	99.6	95.2	99.6	101.5	99.2	98.1
of Natural Gas	99.1	99.1	99.9	99.9	100.7	99.0
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		7.28	10.08	15.69	18.05	19.68
RE-T – Renewable Energy in Transport		0.06	1.92	1.10	4.11	4.05
RES-E – Renewable Electricity Generation		8.21	12.31	22.09	26.00	31.30
RES-H&C – Renewable Heating & Cooling		13.38	18.66	26.56	30.29	30.19
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	105.5	116.5	99.9	77.8	75.7	69.7
GHG Emissions – National total*	129.0	139.0	121.1	98.4	96.2	89.7
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	122.0	131.4	114.5	93.0	90.9	84.8
Total GHG per Capita (t CO ₂ eq/cap)	12.0	12.7	10.9	9.1	9.0	8.4

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

5.10 Spain

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	31.3	30.0	34.4	34.0	34.6	35.0
Solid Fossil Fuels	8.0	6.3	3.3	1.2	0.9	0.0
of which Hard Coal	5.4	4.1	2.5	0.8	0.4	0.0
of which Brown Coal	2.6	2.1	0.8	0.4	0.5	0.0
Oil and Petroleum Products	0.2	0.2	0.1	0.2	0.1	0.0
of which Crude Oil	0.2	0.2	0.1	0.2	0.1	0.0
Natural Gas	0.1	0.1	0.0	0.1	0.1	0.1
Nuclear	16.0	14.8	16.1	14.9	14.5	15.2
Renewables and Biofuels	6.7	8.4	14.6	17.3	18.8	19.3
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	101.0	100.6
Solid Fossil Fuels	12.8	14.4	6.8	10.2	9.2	4.5
of which Hard Coal	13.3	14.7	6.9	10.1	8.9	4.1
Oil and Petroleum Products	71.2	79.7	69.3	61.3	63.8	64.5
of which Crude Oil and NGL	58.1	60.2	53.0	65.4	68.3	67.0
Natural gas	15.5	30.2	31.0	23.8	27.5	31.4
Renewables and Biofuels	0.0	0.0	0.4	-0.4	-0.4	-0.4
Electricity	0.4	-0.1	-0.7	0.0	1.0	0.6
Gross Inland Consumption	124.0	144.5	130.0	122.8	130.6	127.0
Solid Fossil Fuels	20.9	20.5	7.3	13.6	11.5	4.9
of which Hard Coal	18.5	18.6	7.2	12.7	11.0	4.5
of which Brown Coal	2.8	2.3	0.2	0.7	0.4	0.2
Oil and Petroleum Products	64.4	70.8	60.9	52.5	57.5	56.2
of which Crude and NGL	57.7	60.1	53.4	65.7	68.6	66.3
Natural Gas	15.2	29.8	31.1	24.5	27.1	30.9
Nuclear	16.0	14.8	16.1	14.9	14.5	15.2
Renewables and Biofuels	6.8	8.4	15.1	17.1	18.7	18.9
Electricity	0.4	-0.1	-0.7	0.0	1.0	0.6
Waste, Non-Renewable	0.2	0.2	0.2	0.3	0.3	0.3
Available for Final Consumption	85.4	101.8	91.3	79.1	87.6	86.3
Final Non-Energy Consumption	9.5	8.4	7.1	4.3	5.2	5.4
Final Energy Consumption	76.3	93.7	85.4	76.1	81.9	81.5
by Fuel/Product						
Solid Fossil Fuels	0.8	0.8	0.5	0.4	0.5	0.4
Oil and Petroleum Products	43.7	50.5	43.9	36.7	39.5	39.5
Natural Gas	11.8	17.7	14.3	13.1	14.3	14.2
Renewables and Biofuels	3.5	3.8	5.4	5.7	7.0	7.2
Solid Biofuels and Renewable Waste	3.3	3.4	3.7	4.0	4.1	4.3
Solar Thermal	0.0	0.1	0.2	0.3	0.3	0.3
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid Biofuels	0.1	0.3	1.5	1.0	1.7	1.7
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	20.5	20.2
Heat	0.0	0.0	0.0	0.0	0.0	0.0
by Sector						
Industry	24.5	29.9	20.6	18.1	20.1	20.0
Transport	30.5	37.0	34.2	29.4	32.5	32.9
Residential	12.1	15.2	17.0	15.0	15.0	14.7
Services	6.7	8.3	9.8	10.6	11.2	10.7
Agriculture and Fishing	2.6	3.1	2.2	2.5	2.8	2.9
Others	0.0	0.2	1.5	0.5	0.3	0.3

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	26.2	40.8	50.4	49.3	46.0	45.8
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	23.4	25.6
Solar	0.0	0.1	4.6	7.0	7.1	11.3
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	79.1	79.1	25.3	51.4	37.3	12.9
Oil and Petroleum Products	22.6	24.4	16.6	17.2	14.5	12.9
Natural Gas	21.9	80.7	95.8	53.8	59.4	84.8
Nuclear	62.2	57.5	62.0	57.2	55.8	58.3
Renewables and Biofuels	38.0	46.9	101.0	100.3	106.4	103.2
Wastes non-RES	0.6	0.5	0.7	0.8	1.0	1.0
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			3.4	3.5	4.7	5.0
CHP Electricity Generation (TWh)			22.4	22.7	29.0	29.7
CHP in Total Electricity Generation (%)			7.4	8.1	10.6	10.9
CHP Heat Production (PJ)			153.3	120.3	141.9	143.2
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	30 053	36 144	32 407	27 979	30 299	30 733
of which LPG	85	51	21	49	70	97
of which Motor Gasoline	9 019	7 682	5 620	4 561	5 076	5 408
of which Gas/Diesel Oil	18 903	26 037	24 228	21 433	22 412	22 285
Final Consumption Biofuels	71	261	1 453	985	1 681	1 631
Pure and Blended Biogasoline	0	114	232	190	154	130
Pure and Blended Biodiesel	71	147	1 221	795	1 528	1 500
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	114.5	136.0	122.9	118.0	124.6	120.8
Final Energy Consumption 2020-2030 (Mtoe)	80.0	98.1	89.4	80.6	86.9	86.3
Primary Energy Intensity 2020-2030 (toe/M€'15)	131	132	114	110	106	101
Energy Intensity GAE/GDP2010 (toe/M€'15)	149	148	128	121	117	112
Energy per Capita – GIC/pop (kgoe/cap)	3 065	3 337	2 796	2 644	2 798	2 705
Final Electricity per Capita (KWh/cap)	4 657	5 595	5 266	4 995	5 111	4 997
Import Dependency (%)						
of Solid Fossil Fuels	61.3	70.3	92.8	75.4	79.9	92.6
of Hard Coal	71.5	79.1	95.7	79.6	80.9	91.6
of Oil and Petroleum Products	101.0	101.2	99.9	102.2	99.0	101.8
of Crude and NGL	100.6	100.1	99.3	99.5	99.5	101.0
of Natural Gas	101.6	101.4	99.4	96.9	101.4	101.6
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		8.44	13.83	16.26	17.45	18.36
RE-T – Renewable Energy in Transport		1.27	5.02	1.11	6.93	7.61
RES-E – Renewable Electricity Generation		19.13	29.78	36.95	35.06	36.93
RES-H&C – Renewable Heating & Cooling		9.43	12.62	16.98	17.57	18.87
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	320.9	381.2	296.5	286.2	288.1	270.5
GHG Emissions – National total*	397.9	453.7	370.6	351.6	351.7	333.7
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	135.0	153.9	125.7	119.3	119.3	113.2
Total GHG per Capita (t CO ₂ eq/cap)	9.8	10.5	8.0	7.6	7.5	7.1

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

5.11 France

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	129.7	136.3	137.0	140.9	137.5	134.0
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	0.7
Natural Gas	1.5	0.9	0.6	0.0	0.0	0.0
Nuclear	107.1	116.5	111.6	114.0	107.6	104.0
Renewables and Biofuels	15.7	16.0	22.2	24.1	27.2	27.3
Wastes, Non-Renewable	0.9	1.1	1.3	1.7	1.7	1.7
Net Imports	132.7	144.6	132.3	120.3	120.1	120.5
Solid Fossil Fuels	12.8	13.4	12.1	9.2	9.2	7.3
of which Hard Coal	12.3	12.7	11.2	8.8	8.8	6.8
Oil and Petroleum Products	90.0	95.8	83.2	81.8	76.9	77.7
of which Crude Oil and NGL	85.4	86.0	65.5	59.2	54.2	49.5
Natural Gas	35.8	40.7	39.6	34.5	38.6	39.2
Renewables and Biofuels	0.0	-0.1	0.2	0.3	0.8	1.2
Electricity	-6.0	-5.2	-2.6	-5.5	-5.4	-5.0
Gross Inland Consumption	256.1	277.2	269.7	260.1	254.7	251.4
Solid Fossil Fuels	14.9	14.2	12.0	9.3	9.1	7.3
of which Hard Coal	14.1	13.6	11.1	9.1	8.7	6.9
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	76.8	77.3
of which Crude and NGL	86.8	87.6	66.7	59.9	55.5	50.4
Natural Gas	35.8	41.0	42.6	35.0	36.8	37.5
Nuclear	107.1	116.5	111.6	114.0	107.6	104.0
Renewables and Biofuels	15.7	15.9	22.3	24.4	28.0	28.5
Electricity	-6.0	-5.2	-2.6	-5.5	-5.4	-5.0
Waste, Non-Renewable	0.9	1.1	1.3	1.7	1.7	1.7
Available for Final Consumption	156.7	167.1	161.7	157.5	156.1	155.7
Final Non-Energy Consumption	17.0	16.1	13.9	13.9	13.3	13.4
Final Energy Consumption	145.1	150.7	146.3	141.1	140.6	139.4
by Fuel/Product						
Solid Fossil Fuels	2.3	2.0	1.8	1.1	1.2	1.0
Oil and Petroleum Products	67.5	65.4	58.4	56.9	54.4	54.0
Natural Gas	29.8	33.3	32.0	28.7	29.0	28.3
Renewables and Biofuels	9.0	9.4	12.9	13.3	14.4	14.8
Solid Biofuels and Renewable Waste	8.4	8.5	9.1	8.2	8.2	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	3.4	3.5
Biogases	0.1	0.1	0.1	0.1	0.2	0.2
Waste, Non-Renewable	0.2	0.1	0.1	0.4	0.4	0.5
Electricity	33.1	36.4	38.2	37.4	37.6	37.1
Heat	3.2	4.2	2.8	3.3	3.6	3.7
by Sector						
Industry	32.2	32.5	27.7	27.9	28.2	27.5
Transport	45.2	44.4	43.6	45.7	45.2	45.2
Residential	40.6	43.0	45.4	40.2	40.0	39.8
Services	18.7	21.0	24.1	22.1	22.2	21.8
Agriculture and Fishing	4.3	4.6	4.4	4.5	4.4	4.4
Others	4.1	5.3	1.0	0.7	0.5	0.6

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	25.9	26.4	28.4	25.9	21.4	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	25.9
Wind	0.0	0.7	5.9	10.3	14.9	16.4
Solar	0.0	0.0	1.0	7.1	9.7	10.8
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)						
Solid Fossil Fuels, Peat & Products, Oil Shale	27.0	27.5	23.4	11.9	8.3	3.6
Oil and Petroleum Products	7.2	7.9	5.5	6.7	5.7	5.9
Natural Gas	15.4	26.3	26.7	23.8	32.8	41.5
Nuclear	415.2	451.5	428.5	437.4	412.9	399.0
Renewables and Biofuels	74.2	61.2	83.0	96.8	118.9	117.8
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	6.6	6.6
CHP Electricity Generation (TWh)			15.7	13.9	17.3	18.1
CHP in Total Electricity Generation (%)			2.8	2.5	3.0	3.2
CHP Heat Production (PJ)			173.9	154.9	176.4	159.9
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	44093	42923	40254	41629	41046	40989
of which LPG	245	153	126	89	64	58
of which Motor Gasoline	14459	11198	7713	7048	7662	8173
of which Gas/Diesel Oil	28237	30600	31532	32926	31600	31012
Final Consumption Biofuels	326	585	2420	2997	3133	3190
Pure and Blended Biogasoline	59	101	399	432	586	653
Pure and Blended Biodiesel	268	484	2021	2565	2547	2537
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	239.1	260.9	254.4	244.3	238.9	235.3
Final Energy Consumption 2020-2030 (Mtoe)	154.8	160.1	154.0	148.4	146.8	145.4
Primary Energy Intensity 2020-2030 (toe/M€'15)	130	130	122	111	103	100
Energy Intensity GAE/GDP2010 (toe/M€'15)	140	140	130	119	111	108
Energy per Capita – GIC/pop (kgoe/cap)	4229	4416	4171	3913	3799	3743
Final Electricity per Capita (KWh/cap)	6357	6735	6868	6546	6521	6430
Import Dependency (%)						
of Solid Fossil Fuels	86.3	94.4	101.0	98.4	101.0	99.6
of Hard Coal	87.2	92.8	100.6	97.0	101.4	99.2
of Oil and Petroleum Products	99.5	99.5	98.0	98.7	97.7	98.4
of Crude and NGL	98.5	98.2	98.2	98.8	97.7	98.3
of Natural Gas	100.0	99.3	92.8	98.5	104.7	104.5
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		9.60	12.67	14.86	16.44	17.22
RE-T – Renewable Energy in Transport		2.13	6.58	8.37	8.96	9.25
RES-E – Renewable Electricity Generation		13.74	14.82	18.82	21.13	22.38
RES-H&C – Renewable Heating & Cooling		12.37	16.16	19.02	21.36	22.46
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	427.8	440.2	402.5	357.0	350.0	344.9
GHG Emissions – National total*	562.8	567.0	524.2	475.0	462.5	454.8
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	101.7	102.5	94.8	85.9	83.6	82.2
Total GHG per Capita (t CO ₂ eq/cap)	9.3	9.0	8.1	7.1	6.9	6.8

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

5.12 Croatia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	4.3	4.8	5.2	4.4	4.2	3.9
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	1.3	1.0	0.8	0.7	0.8	0.7
of which Crude Oil	1.3	1.0	0.8	0.7	0.8	0.7
Natural Gas	1.4	1.9	2.2	1.5	1.0	0.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	1.6	1.9	2.2	2.2	2.4	2.3
Wastes, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Net Imports	4.1	5.2	4.4	4.2	4.6	5.0
Solid Fossil Fuels	0.5	0.6	0.7	0.6	0.3	0.4
of which Hard Coal	0.4	0.6	0.6	0.6	0.3	0.4
Oil and Petroleum Products	2.4	3.6	3.0	2.6	2.8	2.5
of which Crude Oil and NGL	3.9	4.0	3.6	2.4	3.0	1.9
Natural gas	0.9	0.6	0.5	0.6	1.2	1.6
Renewables and Biofuels	0.0	0.0	-0.1	-0.3	-0.2	-0.1
Electricity	0.3	0.4	0.3	0.6	0.5	0.5
Gross Inland Consumption	8.4	9.8	9.5	8.5	8.7	8.8
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	0.3	0.4
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	3.4	3.3
of which Crude and NGL	5.5	5.1	4.4	3.0	3.7	2.7
Natural Gas	2.2	2.4	2.6	2.1	2.3	2.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	1.6	1.9	2.1	2.0	2.2	2.1
Electricity	0.3	0.4	0.3	0.6	0.5	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	7.2	7.3
Final Non-Energy Consumption	0.7	0.7	0.6	0.5	0.5	0.6
Final Energy Consumption	5.9	7.2	7.1	6.5	6.7	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	2.7
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	1.1	1.2
Solid Biofuels and Renewable Waste	1.0	1.2	1.2	1.2	1.1	1.1
Solar Thermal	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid Biofuels	0.0	0.0	0.0	0.0	0.0	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	0.0
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	1.3	1.5	1.3	1.1	1.2	1.2
Transport	1.5	1.8	2.0	2.0	2.1	2.2
Residential	2.3	2.8	2.8	2.4	2.3	2.2
Services	0.5	0.7	0.8	0.8	0.8	0.8
Agriculture and Fishing	0.3	0.2	0.3	0.2	0.2	0.2
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	2.1	3.9	4.1	4.8	5.0	4.7
Nuclear	0.0	1.8	1.9	2.1	2.1	1.8
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	2.1	2.1	2.1	2.2	2.2	2.2
Solar	0.0	0.0	0.1	0.4	0.6	0.6
Geothermal	0.0	0.0	0.0	0.0	0.1	0.1
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	11.3	13.2	14.9	11.4	13.6	12.8
Oil and Petroleum Products	1.6	2.3	2.4	2.3	1.5	1.6
Natural Gas	1.7	1.9	0.6	0.2	0.1	0.0
Nuclear	1.6	1.8	2.6	1.2	2.2	2.6
Renewables and Biofuels	0.0	0.0	0.0	0.0	0.0	0.0
Wastes non-RES	6.5	7.2	9.4	7.7	9.9	8.5
Wastes non-RES	0.0	0.0	0.0	0.0	0.0	0.0
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.7	0.6	0.9	0.9
CHP Electricity Generation (TWh)			2.0	0.8	2.0	2.3
CHP in Total Electricity Generation (%)			15.8	7.1	14.6	18.3
CHP Heat Production (PJ)			14.9	10.0	15.8	17.6
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 456	1 811	1 953	1 949	2 091	2 145
of which LPG	11	25	66	75	79	74
of which Motor Gasoline	814	739	678	553	519	495
of which Gas/Diesel Oil	621	1 035	1 197	1 310	1 483	1 565
Final Consumption Biofuels	0	0	3	24	27	63
Pure and Blended Biogasoline	0	0	0	0	0	1
Pure and Blended Biodiesel	0	0	3	24	27	62
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	7.8	9.1	8.9	8.0	8.2	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	208	197	178	167	163
Energy Intensity GAE/GDP2010 (toe/M€'15)	241	225	210	191	177	175
Energy per Capita – GIC/pop (kgoe/cap)	1 877	2 278	2 201	2 013	2 113	2 157
Final Electricity per Capita (KWh/cap)	2 631	3 344	3 686	3 631	3 940	3 963
Import Dependency (%)						
of Solid Fossil Fuels	48.5	52.6	46.7	48.8	52.7	56.2
of Hard Coal	110.9	91.3	102.5	103.0	91.3	107.3
of Oil and Petroleum Products	112.8	90.6	102.7	102.4	90.6	108.6
of Crude and NGL	61.0	79.4	80.6	81.4	82.1	76.3
of Natural Gas	72.1	78.9	82.3	79.6	81.2	71.1
of Natural Gas	41.0	23.7	18.1	27.1	53.3	66.4
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		23.69	25.10	28.97	28.05	28.47
RE-T – Renewable Energy in Transport		1.03	1.12	2.36	2.58	5.86
RES-E – Renewable Electricity Generation		35.18	37.52	45.41	48.14	49.78
RES-H&C – Renewable Heating & Cooling		30.00	32.88	38.62	36.65	36.79
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	19.9	23.6	21.3	18.2	18.3	18.4
GHG Emissions – National total*	25.8	30.0	28.1	24.3	24.1	24.2
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	80.8	94.0	88.0	76.1	75.6	75.9
Total GHG per Capita (t CO ₂ eq/cap)	5.7	7.0	6.5	5.7	5.9	5.9

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

5.13 Italy

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	28.3	30.3	32.9	36.1	37.3	36.9
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	5.1	4.7
of which Crude Oil	4.6	6.1	5.1	5.5	4.7	4.3
Natural Gas	13.6	9.9	6.9	5.5	4.5	3.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	9.6	13.3	19.4	23.6	26.7	27.1
Wastes, Non-Renewable	0.3	0.7	1.0	1.1	1.1	1.2
Net Imports	152.4	159.8	148.5	121.4	121.9	122.5
Solid Fossil Fuels	13.1	16.4	13.8	12.3	8.6	6.4
of which Hard Coal	12.9	15.9	13.8	11.9	8.4	6.2
Oil and Petroleum Products	88.0	78.5	66.8	52.4	51.6	52.4
of which Crude Oil and NGL	83.6	88.5	78.2	61.7	61.6	63.1
Natural gas	47.0	59.8	61.6	50.0	55.3	57.9
Renewables and Biofuels	0.5	0.8	2.5	2.7	2.6	2.5
Electricity	3.8	4.2	3.8	4.0	3.8	3.3
Gross Inland Consumption	174.5	189.4	176.8	155.7	157.0	155.4
Solid Fossil Fuels	12.6	16.5	13.7	12.3	8.5	6.5
of which Hard Coal	12.2	16.0	13.6	11.8	8.3	6.3
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	54.7	54.0
of which Crude and NGL	87.9	94.1	82.8	67.0	67.0	67.3
Natural Gas	57.9	70.7	68.1	55.3	59.5	60.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	10.1	14.1	21.9	26.3	29.3	29.5
Electricity	3.8	4.2	3.8	4.0	3.8	3.3
Waste, Non-Renewable	0.3	0.7	1.0	1.1	1.1	1.2
Available for Final Consumption	128.8	139.6	131.7	117.6	119.8	118.7
Final Non-Energy Consumption	8.4	8.6	9.6	6.6	7.2	7.0
Final Energy Consumption	119.7	131.5	123.1	112.1	114.3	113.1
by Fuel/Product						
Solid Fossil Fuels	1.5	1.3	0.6	0.5	0.6	0.6
Oil and Petroleum Products	55.0	56.0	45.6	41.2	39.4	38.9
Natural Gas	37.6	40.6	38.5	33.0	33.6	33.0
Renewables and Biofuels	1.7	4.5	9.1	8.4	11.0	10.9
Solid Biofuels and Renewable Waste	1.5	4.1	7.4	6.8	6.7	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	1.2	1.3
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, Non-Renewable	0.1	0.1	0.2	0.3	0.3	0.3
Electricity	23.5	25.9	25.7	24.7	25.2	25.1
Heat	0.0	3.1	3.3	3.9	4.1	4.2
by Sector						
Industry	37.6	37.2	29.0	24.9	24.7	24.9
Transport	39.7	41.8	38.6	36.4	35.6	35.9
Residential	27.6	33.9	35.4	32.5	31.9	31.1
Services	11.5	15.1	17.0	15.4	19.0	18.2
Agriculture and Fishing	3.2	3.3	2.9	2.9	3.0	2.9
Others	0.2	0.2	0.2	0.1	0.1	0.1

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	54.0	61.9	74.7	65.6	61.3	61.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	20.3	21.0	21.5	22.2	22.5	22.5
Wind	0.4	1.6	5.8	9.1	10.2	10.7
Solar	0.0	0.0	3.6	18.9	20.1	20.9
Geothermal	0.6	0.7	0.7	0.8	0.8	0.8
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	26.3	43.6	39.7	43.2	28.5	18.8
Oil and Petroleum Products	85.9	47.1	21.7	13.4	11.0	10.2
Natural Gas	105.6	155.1	157.4	113.0	131.0	144.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	57.6	55.3	80.3	110.3	116.1	117.7
Wastes non-RES	0.5	1.5	2.1	2.4	2.5	2.4
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			7.4	9.0	8.6	8.6
CHP Electricity Generation (TWh)			34.7	39.5	39.7	40.5
CHP in Total Electricity Generation (%)			11.5	14.0	13.7	13.8
CHP Heat Production (PJ)			202.5	213.2	214.6	216.9
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	38633	40430	35534	33187	32244	32445
of which LPG	1562	1131	1334	1817	1773	1816
of which Motor Gasoline	17556	14175	10276	8192	7640	7712
of which Gas/Diesel Oil	18415	23793	22703	22090	21607	21651
Final Consumption Biofuels	0	177	1419	1167	1250	1276
Pure and Blended Biogasoline	0	0	122	25	33	30
Pure and Blended Biodiesel	0	177	1297	1142	1217	1246
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	166.1	180.8	167.3	149.1	147.2	145.9
Final Energy Consumption 2020-2030 (Mtoe)	124.8	137.2	128.5	116.2	116.3	115.4
Primary Energy Intensity 2020-2030 (toe/M€'15)	100	104	98	90	86	85
Energy Intensity GAE/GDP2010 (toe/M€'15)	106	110	105	95	93	92
Energy per Capita – GIC/pop (kgoe/cap)	3066	3273	2988	2562	2596	2598
Final Electricity per Capita (KWh/cap)	4795	5199	5057	4729	4846	4880
Import Dependency (%)						
of Solid Fossil Fuels	104.6	99.4	100.8	100.2	101.0	98.6
of Hard Coal	105.7	99.7	101.4	100.5	101.1	98.4
of Oil and Petroleum Products	96.1	91.8	93.6	89.4	89.8	92.5
of Crude and NGL	95.1	94.0	94.5	92.2	91.9	93.9
of Natural Gas	81.1	84.7	90.5	90.4	92.9	95.1
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		7.55	13.02	17.53	17.80	18.18
RE-T – Renewable Energy in Transport		1.05	4.92	6.51	7.66	9.05
RES-E – Renewable Electricity Generation		16.29	20.09	33.46	33.93	34.97
RES-H&C – Renewable Heating & Cooling		8.22	15.64	19.26	19.28	19.70
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	478.4	510.7	445.0	370.9	361.0	352.2
GHG Emissions – National total*	563.5	597.6	525.4	450.1	440.6	430.8
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	107.7	114.3	100.4	86.1	84.2	82.4
Total GHG per Capita (t CO ₂ eq/cap)	9.9	10.3	8.9	7.4	7.3	7.2

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

5.14 Cyprus

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	0.0	0.1	0.1	0.1	0.2	0.2
Solid Fossil Fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which Hard Coal	0.0	0.0	0.0	0.0	0.0	0.0
of which Brown Coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and Petroleum Products	0.0	0.0	0.0	0.0	0.0	0.0
of which Crude Oil	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	0.0	0.0	0.1	0.1	0.2	0.2
Wastes, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Net Imports	2.6	2.9	3.0	2.5	2.7	2.7
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	2.3
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	1.7
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	0.9	1.0
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	0.0	0.1	0.1	0.1	0.2	0.2
Solid Biofuels and Renewable Waste	0.0	0.0	0.0	0.0	0.1	0.1
Solar Thermal	0.0	0.0	0.1	0.1	0.1	0.1
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid Biofuels	0.0	0.0	0.0	0.0	0.0	0.0
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	0.3	0.3	0.4	0.4	0.4	0.4
Heat	0.0	0.0	0.0	0.0	0.0	0.0
by Sector						
Industry	0.4	0.3	0.2	0.2	0.2	0.2
Transport	0.6	0.7	0.8	0.6	0.7	0.7
Residential	0.2	0.3	0.3	0.3	0.3	0.4
Services	0.1	0.2	0.2	0.2	0.3	0.3
Agriculture and Fishing	0.0	0.0	0.0	0.0	0.0	0.0
Others	0.1	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	1.0	1.1	1.6	1.8	1.8	1.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.1	0.2	0.2	0.2
Solar	0.0	0.0	0.0	0.1	0.1	0.2
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
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	0.5	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	0.0
CHP in Total Electricity Generation (%)			1.0	0.1	1.1	0.6
CHP Heat Production (PJ)			0.1	0.2	0.6	0.1
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	577	676	750	612	676	682
of which LPG	0	0	0	0	0	1
of which Motor Gasoline	218	321	413	365	361	356
of which Gas/Diesel Oil	359	355	338	247	312	323
Final Consumption Biofuels	0	0	15	10	9	11
Pure and Blended Biogasoline	0	0	0	0	0	0
Pure and Blended Biodiesel	0	0	15	10	9	11
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	145	137	127	121	117
Energy Intensity GAE/GDP2010 (toe/M€'15)	186	166	151	142	138	134
Energy per Capita – GIC/pop (kgoe/cap)	3511	3476	3370	2715	3047	3003
Final Electricity per Capita (KWh/cap)	4339	5402	5960	4830	5397	5393
Import Dependency (%)						
of Solid Fossil Fuels	102.0	121.1	65.6	100.0	97.5	117.2
of Hard Coal	102.0	121.2	65.4	100.0	97.5	117.2
of Oil and Petroleum Products	100.3	102.3	104.2	102.8	99.2	99.7
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	13.90	13.80
RE-T – Renewable Energy in Transport		0.00	1.99	2.52	2.66	3.32
RES-E – Renewable Electricity Generation		0.02	1.39	8.45	9.36	9.76
RES-H&C – Renewable Heating & Cooling		9.97	18.84	24.13	37.23	35.10
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	8.0	8.8	8.9	7.7	8.4	8.4
GHG Emissions – National total*	9.1	10.1	10.3	9.1	9.9	9.9
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	145.2	159.6	163.3	144.4	156.5	156.9
Total GHG per Capita (t CO ₂ eq/cap)	13.3	13.7	12.6	10.7	11.4	11.3

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

5.15 Latvia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	1.4	1.9	2.0	2.3	2.9	2.8
Solid Fossil Fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which Hard Coal	0.0	0.0	0.0	0.0	0.0	0.0
of which Brown Coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and Petroleum Products	0.0	0.0	0.0	0.0	0.0	0.0
of which Crude Oil	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	1.4	1.9	2.0	2.3	2.8	2.8
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	2.2
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	1.6	1.8
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	1.2	1.1
Renewables and Biofuels	-0.2	-0.4	-0.6	-0.7	-0.8	-0.9
Electricity	0.2	0.2	0.1	0.2	0.1	0.1
Gross Inland Consumption	3.9	4.6	4.6	4.4	4.8	4.6
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	1.5
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	1.2	1.1
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	1.8
Electricity	0.2	0.2	0.1	0.2	0.1	0.1
Waste, Non-Renewable	0.0	0.0	0.0	0.1	0.0	0.0
Available for Final Consumption	3.3	4.0	4.1	3.8	4.1	4.0
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	4.0	3.9
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	1.1	1.0
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	0.9	0.9
Transport	0.7	1.0	1.1	1.0	1.1	1.1
Residential	1.3	1.5	1.4	1.1	1.2	1.2
Services	0.5	0.6	0.6	0.6	0.6	0.6
Agriculture and Fishing	0.1	0.2	0.2	0.2	0.2	0.2
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	2.1	2.2	2.6	2.9	2.9	2.9
Nuclear	0.6	0.6	1.0	1.3	1.3	1.3
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	1.5	1.5	1.6	1.6	1.6	1.6
Solar	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
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	4.1	4.9	6.6	5.5	6.7	6.4
Oil and Petroleum Products	0.1	0.0	0.0	0.0	0.0	0.0
Natural Gas	0.1	0.0	0.0	0.0	0.0	0.0
Nuclear	1.1	1.5	3.0	2.8	3.2	3.2
Renewables and Biofuels	0.0	0.0	0.0	0.0	0.0	0.0
Wastes non-RES	2.8	3.4	3.6	2.8	3.5	3.2
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)	0.0	0.0	0.9	1.1	1.3	1.3
CHP Electricity Generation (TWh)	3.0	2.5	3.1	2.6		
CHP in Total Electricity Generation (%)	45.0	44.7	45.7	41.1		
CHP Heat Production (PJ)	10.4	12.4	15.1	13.7		
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	707	991	1046	1006	1062	1055
of which LPG	21	26	24	64	55	48
of which Motor Gasoline	347	352	294	205	184	175
of which Gas/Diesel Oil	340	613	728	737	822	832
Final Consumption Biofuels	0	3	27	23	38	37
Pure and Blended Biogasoline	0	0	8	8	8	7
Pure and Blended Biodiesel	0	3	19	15	29	30
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	3.8	4.5	4.6	4.3	4.7	4.6
Final Energy Consumption 2020-2030 (Mtoe)	3.3	4.0	4.1	3.8	4.2	4.1
Primary Energy Intensity 2020-2030 (toe/M€'15)	267	213	221	174	174	165
Energy Intensity GAE/GDP2010 (toe/M€'15)	273	230	237	189	179	179
Energy per Capita – GIC/pop (kgoe/cap)	1623	2040	2183	2205	2478	2422
Final Electricity per Capita (KWh/cap)	1880	2547	2931	3253	3444	3465
Import Dependency (%)						
of Solid Fossil Fuels	61.0	63.8	45.5	51.2	44.3	44.0
of Hard Coal	84.1	97.7	106.5	85.2	91.3	110.8
of Oil and Petroleum Products	82.5	96.7	106.6	85.2	91.3	110.8
of Crude and NGL	94.9	102.2	94.4	102.9	98.1	100.2
of Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0
of Natural Gas	101.9	105.6	61.8	98.6	98.8	100.0
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)	32.26	30.38	37.54	40.03	40.98	
RE-T – Renewable Energy in Transport	2.39	3.98	3.64	4.73	5.11	
RES-E – Renewable Electricity Generation	43.02	42.05	52.21	53.50	53.42	
RES-H&C – Renewable Heating & Cooling	42.68	40.75	51.74	55.43	57.76	
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	7.2	8.0	8.9	7.6	8.3	8.1
GHG Emissions – National total*	10.2	11.1	12.2	11.1	11.7	11.6
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	38.9	42.6	46.7	42.4	44.9	44.5
Total GHG per Capita (t CO ₂ eq/cap)	4.3	5.0	5.8	5.6	6.1	6.1

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

5.16 Lithuania

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
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	0.0
of which Crude Oil	0.3	0.2	0.1	0.1	0.0	0.0
Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	2.3	2.8	0.0	0.0	0.0	0.0
Renewables and Biofuels	0.7	0.9	1.2	1.5	1.7	1.7
Wastes, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Net Imports	4.3	5.0	5.7	5.5	5.9	6.0
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	3.2	3.2
of which Crude Oil and NGL	4.6	8.9	9.1	8.7	9.7	9.6
Natural gas	2.1	2.5	2.5	2.1	1.8	1.9
Renewables and Biofuels	0.0	0.0	-0.1	-0.1	-0.1	-0.1
Electricity	-0.1	-0.3	0.5	0.6	0.8	0.8
Gross Inland Consumption	7.3	9.0	7.1	7.2	7.8	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	0.2	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	3.1	3.0
of which Crude and NGL	4.9	9.4	9.2	8.7	9.8	9.6
Natural Gas	2.1	2.5	2.5	2.1	1.8	1.9
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	0.8	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	6.6	6.6
Final Non-Energy Consumption	0.7	0.7	0.7	1.1	1.1	1.2
Final Energy Consumption	3.7	4.6	4.8	4.8	5.5	5.5
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	2.1	2.2
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	0.8
by Sector						
Industry	0.8	1.1	0.9	1.0	1.1	1.1
Transport	1.0	1.4	1.5	1.8	2.1	2.2
Residential	1.4	1.5	1.6	1.4	1.5	1.4
Services	0.5	0.6	0.6	0.6	0.7	0.6
Agriculture and Fishing	0.1	0.1	0.1	0.1	0.1	0.1
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	5.7	4.6	3.6	3.6	3.4	3.4
Nuclear	2.5	2.5	2.5	2.2	1.8	1.8
Hydro	2.4	1.2	0.0	0.0	0.0	0.0
Wind	0.9	0.9	0.9	0.9	0.9	0.9
Solar	0.0	0.0	0.1	0.4	0.5	0.5
Geothermal	0.0	0.0	0.0	0.1	0.1	0.1
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	11.3	14.6	5.5	4.7	3.3	3.7
Oil and Petroleum Products	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas	0.7	0.4	0.6	0.3	0.1	0.1
Nuclear	1.6	3.0	3.2	2.0	0.3	0.5
Renewables and Biofuels	8.4	10.3	0.0	0.0	0.0	0.0
Wastes non-RES	0.6	0.8	1.7	2.4	2.7	3.1
	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	0.9	1.1
CHP in Total Electricity Generation (%)			34.6	31.3	26.3	27.4
CHP Heat Production (PJ)			19.3	12.4	10.2	11.0
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 026	1 359	1 421	1 647	1 970	2 042
of which LPG	120	229	174	133	109	105
of which Motor Gasoline	390	351	296	200	232	242
of which Gas/Diesel Oil	513	779	951	1 313	1 628	1 694
Final Consumption Biofuels	0	3	45	68	78	75
Pure and Blended Biogasoline	0	1	10	10	8	10
Pure and Blended Biodiesel	0	3	34	58	70	65
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	6.5	8.0	6.2	5.8	6.4	6.3
Final Energy Consumption 2020-2030 (Mtoe)	3.8	4.7	4.8	4.9	5.6	5.6
Primary Energy Intensity 2020-2030 (toe/M€'15)	323	275	199	155	154	145
Energy Intensity GAE/GDP2010 (toe/M€'15)	367	312	233	194	194	185
Energy per Capita – GIC/pop (kgoe/cap)	2 093	2 677	2 254	2 459	2 789	2 792
Final Electricity per Capita (KWh/cap)	1 764	2 377	2 652	3 198	3 702	3 773
Import Dependency (%)						
of Solid Fossil Fuels	57.8	55.3	79.0	75.5	73.9	75.2
of Hard Coal	101.7	101.0	95.7	90.6	99.0	108.1
of Oil and Petroleum Products	100.0	100.0	109.7	90.1	98.8	109.1
of Crude and NGL	101.0	93.4	98.7	100.7	98.4	100.8
of Natural Gas	94.5	95.3	99.0	99.5	99.2	100.8
	100.0	100.7	99.7	99.7	98.9	100.0
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		16.77	19.64	25.75	24.70	25.46
RE-T – Renewable Energy in Transport		0.66	3.79	4.58	4.33	4.05
RES-E – Renewable Electricity Generation		3.83	7.40	15.54	18.41	18.79
RES-H&C – Renewable Heating & Cooling		29.32	32.54	46.09	46.02	47.36
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	11.9	14.3	14.1	13.6	14.1	14.3
GHG Emissions – National total*	19.5	22.8	20.9	20.5	20.5	20.7
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	40.5	47.4	43.3	42.6	42.6	43.0
Total GHG per Capita (t CO ₂ eq/cap)	5.6	6.8	6.6	7.0	7.3	7.4

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

5.17 Luxembourg

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
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	0.2	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	4.3	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	2.9	3.0
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	4.5	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	2.9	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	3.8	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	3.7	3.8
by Fuel/Product						
Solid Fossil Fuels	0.1	0.1	0.1	0.0	0.0	0.0
Oil and Petroleum Products	1.9	2.7	2.4	2.1	2.3	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	0.6	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	2.1	2.2
Residential	0.5	0.5	0.5	0.5	0.5	0.5
Services	0.4	0.4	0.4	0.4	0.5	0.5
Agriculture and Fishing	0.0	0.0	0.0	0.0	0.0	0.0
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	1.2	1.7	1.7	2.0	1.7	1.8
Nuclear	0.1	0.5	0.5	0.5	0.1	0.2
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	1.1	1.1	1.1	1.3	1.3	1.3
Solar	0.0	0.0	0.0	0.1	0.1	0.1
Geothermal	0.0	0.0	0.0	0.1	0.1	0.2
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	1.2	4.1	4.6	2.8	2.2	1.9
Oil and Petroleum Products	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	0.2	3.1	2.9	0.8	0.2	0.2
Renewables and Biofuels	0.0	0.0	0.0	0.0	0.0	0.0
Wastes non-RES	0.9	1.0	1.6	1.9	1.9	1.6
	0.0	0.0	0.0	0.1	0.1	0.1
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.1	0.1	0.1	0.1
CHP Electricity Generation (TWh)			0.4	0.4	0.4	0.4
CHP in Total Electricity Generation (%)			9.6	12.7	16.6	22.1
CHP Heat Production (PJ)			3.2	2.4	2.9	3.8
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 588	2 341	2 124	1 863	1 967	2 012
of which LPG	2	2	1	1	0	0
of which Motor Gasoline	595	514	362	293	328	343
of which Gas/Diesel Oil	990	1 824	1 760	1 570	1 638	1 669
Final Consumption Biofuels	0	1	42	83	123	130
Pure and Blended Biogasoline	0	0	1	7	10	17
Pure and Blended Biodiesel	0	0	41	76	113	113
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	3.6	4.8	4.6	4.1	4.5	4.5
Final Energy Consumption 2020-2030 (Mtoe)	3.5	4.5	4.3	4.0	4.3	4.4
Primary Energy Intensity 2020-2030 (toe/M€'15)	104	119	102	80	78	77
Energy Intensity GAE/GDP2010 (toe/M€'15)	106	120	103	80	79	78
Energy per Capita – GIC/pop (kgoe/cap)	8 433	10 411	9 254	7 425	7 483	7 395
Final Electricity per Capita (KWh/cap)	13 319	13 340	13 132	11 056	10 730	10 420
Import Dependency (%)						
of Solid Fossil Fuels	99.6	97.4	97.0	95.9	95.2	95.1
of Hard Coal	100.0	100.0	100.0	100.0	100.0	100.0
of Oil and Petroleum Products	100.0	100.0	100.0	100.0	100.0	100.0
of Crude and NGL	102.1	99.4	99.3	99.3	99.7	100.4
of Natural Gas	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	2.85	4.99	8.97	7.05
RE-T – Renewable Energy in Transport		0.16	2.09	6.70	6.57	7.66
RES-E – Renewable Electricity Generation		3.18	3.79	6.20	9.13	10.86
RES-H&C – Renewable Heating & Cooling		3.61	4.70	6.86	8.48	8.71
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	9.7	13.4	12.5	10.7	11.4	11.6
GHG Emissions – National total*	10.6	14.3	13.5	11.7	12.4	12.6
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	81.0	109.0	102.7	89.2	94.6	95.7
Total GHG per Capita (t CO ₂ eq/cap)	24.5	31.0	26.8	20.8	20.6	20.5

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

5.18 Hungary

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	11.6	10.9	11.7	11.1	10.9	10.8
Solid Fossil Fuels	2.9	1.7	1.6	1.5	1.1	1.0
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	1.1	1.0
Oil and Petroleum Products	1.7	1.5	1.1	0.9	1.1	1.2
of which Crude Oil	1.7	1.4	1.1	0.9	1.1	1.1
Natural Gas	2.5	2.3	2.2	1.4	1.5	1.3
Nuclear	3.7	3.6	4.0	4.0	4.0	4.1
Renewables and Biofuels	0.8	1.7	2.7	3.2	3.0	3.1
Wastes, Non-Renewable	0.0	0.1	0.1	0.1	0.1	0.1
Net Imports	13.9	17.7	15.1	13.6	15.5	18.6
Solid Fossil Fuels	1.1	1.3	1.1	0.8	1.0	0.8
of which Hard Coal	0.9	1.0	1.3	1.0	1.1	1.0
Oil and Petroleum Products	5.2	6.1	5.8	6.6	7.0	7.1
of which Crude Oil and NGL	5.8	6.2	5.8	6.2	6.3	5.9
Natural gas	7.3	9.8	7.7	5.2	6.4	9.8
Renewables and Biofuels	0.0	0.0	0.0	-0.2	-0.2	-0.2
Electricity	0.3	0.5	0.4	1.2	1.2	1.1
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	2.1	1.8
of which Hard Coal	0.9	0.9	1.3	1.0	1.1	1.0
of which Brown Coal	3.0	2.1	1.7	1.6	1.2	1.0
Oil and Petroleum Products	6.9	7.4	6.8	7.0	8.1	8.2
of which Crude and NGL	7.4	7.6	6.8	6.8	7.3	7.0
Natural Gas	9.7	12.1	9.8	7.5	8.3	8.5
Nuclear	3.7	3.6	4.0	4.0	4.0	4.1
Renewables and Biofuels	0.8	1.7	2.8	3.0	2.8	2.8
Electricity	0.3	0.5	0.4	1.2	1.2	1.1
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	20.0
Final Non-Energy Consumption	1.6	2.2	2.0	1.9	2.2	2.1
Final Energy Consumption	15.6	18.2	16.9	16.8	17.8	18.0
by Fuel/Product						
Solid Fossil Fuels	0.4	0.5	0.2	0.2	0.2	0.2
Oil and Petroleum Products	4.0	4.6	4.4	5.0	5.7	5.9
Natural Gas	6.4	7.7	6.1	5.3	5.6	5.5
Renewables and Biofuels	0.8	1.2	2.0	2.2	1.9	1.8
Solid Biofuels and Renewable Waste	0.7	1.1	1.7	1.9	1.6	1.5
Solar Thermal	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.1	0.1	0.1	0.1	0.1	0.1
Liquid Biofuels	0.0	0.0	0.2	0.2	0.2	0.2
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	3.4	3.5
Heat	1.4	1.3	1.1	1.0	1.0	1.0
by Sector						
Industry	3.3	3.1	2.6	3.9	4.4	4.5
Transport	3.1	4.0	4.1	4.2	4.8	5.1
Residential	5.6	7.0	6.6	6.0	5.8	5.7
Services	3.0	3.5	3.0	2.2	2.1	2.1
Agriculture and Fishing	0.7	0.6	0.5	0.6	0.7	0.7
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)	8.3	8.6	9.0	8.6	9.3	9.9
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	0.7	1.4
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)	35.2	35.8	37.4	30.3	31.9	34.0
Solid Fossil Fuels, Peat & Products, Oil Shale	9.6	7.0	6.2	5.8	4.7	4.0
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	7.4	8.7
Nuclear	14.2	13.8	15.8	15.8	15.7	16.3
Renewables and Biofuels	0.2	1.9	3.0	3.2	3.8	4.7
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	4.5	4.6
CHP in Total Electricity Generation (%)			19.6	13.5	13.4	13.4
CHP Heat Production (PJ)			42.2	24.4	24.7	27.5
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	2971	3932	3791	3873	4414	4680
of which LPG	0	33	29	30	23	20
of which Motor Gasoline	1414	1568	1348	1283	1397	1511
of which Gas/Diesel Oil	1557	2328	2414	2559	2993	3147
Final Consumption Biofuels	0	3	175	175	193	202
Pure and Blended Biogasoline	0	3	57	43	51	46
Pure and Blended Biodiesel	0	0	118	133	142	157
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	23.6	26.3	24.6	23.3	24.5	24.6
Final Energy Consumption 2020-2030 (Mtoe)	16.2	18.7	17.5	17.4	18.5	18.6
Primary Energy Intensity 2020-2030 (toe/M€'15)	287	258	242	207	193	186
Energy Intensity GAE/GDP2010 (toe/M€'15)	306	279	261	224	211	202
Energy per Capita – GIC/pop (kgoe/cap)	2468	2823	2655	2557	2731	2733
Final Electricity per Capita (KWh/cap)	2880	3203	3416	3682	4031	4125
Import Dependency (%)	55.0	62.3	56.9	53.9	58.1	69.7
of Solid Fossil Fuels	28.1	42.5	41.9	33.7	48.4	45.7
of Hard Coal	96.4	108.3	99.2	99.2	102.7	98.8
of Oil and Petroleum Products	75.9	82.0	85.3	93.7	86.2	86.6
of Crude and NGL	78.5	81.8	85.3	91.4	86.3	84.6
of Natural Gas	75.4	81.1	78.7	69.7	77.9	115.2
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		6.93	12.74	14.50	12.54	12.61
RE-T – Renewable Energy in Transport		1.01	6.16	7.17	7.75	8.03
RES-E – Renewable Electricity Generation		4.42	7.10	7.34	8.31	9.99
RES-H&C – Renewable Heating & Cooling		9.94	18.08	21.34	18.17	18.12
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	59.1	61.1	52.8	47.2	50.2	49.9
GHG Emissions – National total*	75.6	77.5	66.8	62.1	65.6	65.3
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	79.4	81.4	70.1	65.1	68.8	68.5
Total GHG per Capita (t CO ₂ eq/cap)	7.4	7.7	6.7	6.3	6.7	6.7

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

5.19 Malta

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
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	3.1
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	2.6	2.7
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	0.9
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	0.8	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	0.3	0.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	0.0	0.0	0.0	0.0	0.0	0.1
Electricity	0.0	0.0	0.0	0.1	0.1	0.1
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	0.6
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	0.3
Residential	0.1	0.1	0.1	0.1	0.1	0.1
Services	0.0	0.1	0.1	0.1	0.1	0.1
Agriculture and Fishing	0.0	0.0	0.0	0.0	0.0	0.0
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	0.0	0.0	0.6	0.7	0.7	0.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.1	0.1	0.2
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
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	0.0	0.0
Natural Gas	0.0	0.0	0.0	0.0	1.7	1.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	0.0	0.0	0.0	0.1	0.2	0.2
Wastes non-RES	0.0	0.0	0.0	0.0	0.0	0.0
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.0	0.0	0.1	0.1
CHP Electricity Generation (TWh)			0.0	0.0	0.2	0.2
CHP in Total Electricity Generation (%)			0.0	0.0	8.2	8.5
CHP Heat Production (PJ)			0.0	0.0	0.1	0.1
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	153	165	185	193	221	241
of which LPG	0	0	0	0	1	1
of which Motor Gasoline	75	67	74	78	80	85
of which Gas/Diesel Oil	78	94	108	114	140	155
Final Consumption Biofuels	0	0	1	7	10	11
Pure and Blended Biogasoline	0	0	0	0	0	0
Pure and Blended Biodiesel	0	0	1	7	10	11
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	0.8	0.9	0.9	0.8	0.8	0.9
Final Energy Consumption 2020-2030 (Mtoe)	0.4	0.5	0.5	0.6	0.7	0.7
Primary Energy Intensity 2020-2030 (toe/M€'15)	134	139	121	75	70	70
Energy Intensity GAE/GDP2010 (toe/M€'15)	243	242	311	230	258	253
Energy per Capita – GIC/pop (kgoe/cap)	2080	2324	2266	1724	1781	1830
Final Electricity per Capita (KWh/cap)	4031	4614	4406	4808	5016	5051
Import Dependency (%)						
of Solid Fossil Fuels	0.0	0.0	0.0	0.0	0.0	0.0
of Hard Coal	0.0	0.0	0.0	0.0	0.0	0.0
of Oil and Petroleum Products	100.2	100.0	99.2	97.9	97.4	97.8
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	109.5	103.6
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		0.12	0.98	5.12	7.97	8.49
RE-T – Renewable Energy in Transport		0.00	0.00	4.68	8.02	8.69
RES-E – Renewable Electricity Generation		0.00	0.03	4.31	7.66	8.04
RES-H&C – Renewable Heating & Cooling		1.03	7.28	14.64	23.35	25.70
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	2.9	2.9	2.9	2.1	2.0	2.2
GHG Emissions – National total*	3.1	3.3	3.3	2.6	2.5	2.7
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	112.4	116.5	117.2	92.1	90.1	96.4
Total GHG per Capita (t CO ₂ eq/cap)	8.1	8.1	7.9	5.8	5.3	5.5

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

5.20 Netherlands

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	58.8	62.7	71.4	48.5	36.9	33.4
Solid Fossil Fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which Hard Coal	0.0	0.0	0.0	0.0	0.0	0.0
of which Brown Coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and Petroleum Products	3.0	2.8	2.0	2.4	1.8	1.4
of which Crude Oil	2.4	2.3	1.5	1.8	1.1	0.9
Natural Gas	52.8	56.2	64.7	39.4	27.8	23.9
Nuclear	1.0	1.0	0.9	0.9	0.8	0.9
Renewables and Biofuels	1.4	2.0	3.1	4.8	5.7	6.2
Wastes, Non-Renewable	0.6	0.7	0.7	0.6	0.7	0.7
Net Imports	35.0	37.5	28.3	43.0	52.8	56.9
Solid Fossil Fuels	7.7	8.2	7.6	10.7	8.2	6.6
of which Hard Coal	7.7	8.2	7.5	10.7	8.2	6.6
Oil and Petroleum Products	42.9	48.4	44.5	43.1	39.9	42.5
of which Crude Oil and NGL	60.7	61.4	60.4	60.0	61.3	63.3
Natural gas	-17.2	-20.9	-24.2	-10.5	4.6	8.3
Renewables and Biofuels	-0.1	0.3	0.1	-1.1	-0.9	-0.7
Electricity	1.6	1.6	0.2	0.8	0.7	0.1
Gross Inland Consumption	78.3	83.7	86.2	76.4	77.4	75.9
Solid Fossil Fuels	7.8	8.1	7.5	11.1	8.3	6.4
of which Hard Coal	7.8	8.2	7.4	11.1	8.3	6.4
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	31.3	30.0
of which Crude and NGL	62.8	63.5	61.9	61.2	62.4	63.4
Natural Gas	35.0	35.3	40.1	28.6	30.7	32.0
Nuclear	1.0	1.0	0.9	0.9	0.8	0.9
Renewables and Biofuels	1.3	2.3	3.3	3.7	4.6	5.4
Electricity	1.6	1.6	0.2	0.8	0.7	0.1
Waste, Non-Renewable	0.6	0.7	0.7	0.8	0.9	0.8
Available for Final Consumption	58.8	62.1	64.8	55.4	58.1	56.4
Final Non-Energy Consumption	11.3	13.6	14.4	12.2	12.8	12.0
Final Energy Consumption	47.5	49.0	50.8	43.7	45.3	44.7
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	14.4	14.0
Natural Gas	20.7	20.0	21.6	16.9	17.2	16.6
Renewables and Biofuels	0.5	0.6	1.0	1.3	1.8	2.0
Solid Biofuels and Renewable Waste	0.4	0.5	0.6	0.6	0.7	0.7
Solar Thermal	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.0	0.0	0.0	0.1	0.1	0.1
Liquid Biofuels	0.0	0.0	0.2	0.3	0.6	0.7
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	9.0	9.3	9.4
Heat	3.7	3.8	3.0	2.3	2.0	2.1
by Sector						
Industry	15.2	15.6	14.4	13.1	13.6	13.4
Transport	10.6	11.4	11.7	10.4	11.0	10.9
Residential	10.8	10.7	12.5	9.5	9.6	9.3
Services	6.2	6.9	7.8	6.8	6.9	6.9
Agriculture and Fishing	4.5	4.2	4.2	3.8	4.1	4.1
Others	0.1	0.1	0.1	0.1	0.1	0.1

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	21.1	21.8	26.7	33.9	35.1	37.1
Nuclear	0.4	0.4	0.5	0.5	0.5	0.5
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.4	1.2	2.2	3.4	4.4	4.5
Solar	0.0	0.1	0.1	1.5	4.6	7.2
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	24.3	23.5	22.6	39.4	27.5	17.7
Oil and Petroleum Products	2.6	2.3	1.3	1.3	1.3	1.4
Natural Gas	54.4	61.0	78.5	48.7	60.3	72.8
Nuclear	3.9	4.0	4.0	4.1	3.5	3.9
Renewables and Biofuels	3.0	7.4	11.2	13.7	18.9	22.7
Wastes non-RES	1.2	1.4	1.6	1.6	2.0	1.8
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			9.3	9.2	8.8	8.8
CHP Electricity Generation (TWh)			39.2	29.8	31.2	32.2
CHP in Total Electricity Generation (%)			33.2	27.1	27.2	26.6
CHP Heat Production (PJ)			233.6	189.6	173.8	174.2
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	10501	11239	11268	9897	10215	10050
of which LPG	602	448	343	192	148	138
of which Motor Gasoline	3964	4039	4048	3783	4099	4177
of which Gas/Diesel Oil	5916	6738	6863	5911	5958	5724
Final Consumption Biofuels	0	0	229	298	501	616
Pure and Blended Biogasoline	0	0	134	142	171	199
Pure and Blended Biodiesel	0	0	95	156	331	417
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	66.9	70.1	71.7	63.9	64.2	63.5
Final Energy Consumption 2020-2030 (Mtoe)	52.1	54.1	55.3	48.8	50.7	49.9
Primary Energy Intensity 2020-2030 (toe/M€'15)	115	113	108	93	86	84
Energy Intensity GAE/GDP2010 (toe/M€'15)	157	160	150	128	119	116
Energy per Capita – GIC/pop (kgoe/cap)	4934	5133	5198	4523	4507	4394
Final Electricity per Capita (KWh/cap)	5993	6403	6501	6163	6326	6339
Import Dependency (%)						
of Solid Fossil Fuels	99.4	101.3	101.4	96.6	99.8	102.1
of Hard Coal	98.9	100.0	101.6	96.5	99.5	101.8
of Oil and Petroleum Products	97.4	96.2	94.2	101.8	94.1	101.6
of Crude and NGL	96.7	96.7	97.6	98.0	98.2	99.9
of Natural Gas	-49.1	-59.3	-60.4	-36.7	15.0	26.0
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		2.48	3.92	5.67	7.34	8.77
RE-T – Renewable Energy in Transport		0.50	3.40	5.50	9.62	12.51
RES-E – Renewable Electricity Generation		6.30	9.60	11.04	15.19	18.22
RES-H&C – Renewable Heating & Cooling		2.38	3.10	5.20	6.07	7.08
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	181.5	188.3	192.2	176.0	171.6	165.5
GHG Emissions – National total*	228.1	224.0	222.4	204.6	199.0	192.7
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	101.3	99.5	98.8	90.9	88.4	85.6
Total GHG per Capita (t CO ₂ eq/cap)	14.4	13.7	13.4	12.1	11.6	11.2

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

5.21 Austria

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	9.8	9.9	12.1	12.2	12.0	12.4
Solid Fossil Fuels	0.3	0.0	0.0	0.0	0.0	0.0
of which Hard Coal	0.0	0.0	0.0	0.0	0.0	0.0
of which Brown Coal	0.3	0.0	0.0	0.0	0.0	0.0
Oil and Petroleum Products	1.1	0.9	1.1	0.9	0.7	0.7
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	0.9	0.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	6.6	7.2	9.0	9.6	9.8	10.2
Wastes, Non-Renewable	0.3	0.4	0.6	0.7	0.6	0.7
Net Imports	19.2	24.7	21.9	20.4	21.9	24.9
Solid Fossil Fuels	3.0	4.0	3.4	2.8	2.7	2.7
of which Hard Coal	2.3	3.0	2.4	2.1	2.1	2.1
Oil and Petroleum Products	11.0	13.3	11.8	11.3	11.7	12.4
of which Crude Oil and NGL	7.4	8.0	6.9	8.2	8.5	8.7
Natural gas	5.3	7.2	6.1	5.0	6.5	9.4
Renewables and Biofuels	0.0	0.0	0.4	0.4	0.2	0.1
Electricity	-0.1	0.2	0.2	0.9	0.8	0.3
Gross Inland Consumption	29.2	34.4	34.8	33.7	34.0	34.7
Solid Fossil Fuels	3.6	4.1	3.4	3.2	2.7	2.8
of which Hard Coal	2.5	2.8	2.5	2.5	2.2	2.1
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	12.5	12.9
of which Crude and NGL	8.5	9.0	8.0	9.0	9.1	9.3
Natural Gas	6.6	8.1	8.1	6.9	7.4	7.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	6.6	7.2	9.5	10.0	10.0	10.3
Electricity	-0.1	0.2	0.2	0.9	0.8	0.3
Waste, Non-Renewable	0.3	0.4	0.6	0.7	0.6	0.7
Available for Final Consumption	23.6	27.3	27.8	27.3	27.9	28.3
Final Non-Energy Consumption	1.7	1.6	1.8	1.8	1.9	2.1
Final Energy Consumption	21.8	25.7	26.0	25.5	26.0	26.2
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	9.4	9.5
Natural Gas	4.0	4.7	4.7	4.6	4.7	4.7
Renewables and Biofuels	2.4	2.9	4.1	4.3	4.1	4.1
Solid Biofuels and Renewable Waste	2.3	2.7	3.2	3.1	3.0	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	0.0	0.0
Waste, Non-Renewable	0.1	0.2	0.2	0.2	0.3	0.3
Electricity	4.4	4.9	5.2	5.3	5.5	5.5
Heat	1.0	1.2	1.6	1.7	1.7	1.7
by Sector						
Industry	6.0	7.2	7.6	7.4	7.5	7.4
Transport	6.4	8.4	8.2	8.5	8.8	8.9
Residential	6.3	6.6	7.1	6.6	6.5	6.7
Services	2.6	3.0	2.6	2.5	2.6	2.7
Agriculture and Fishing	0.5	0.5	0.5	0.5	0.5	0.5
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	6.1	6.5	7.3	7.7	6.5	6.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	11.6	11.8	12.9	13.6	14.5	14.6
Wind	0.1	0.8	1.0	2.5	3.1	3.2
Solar	0.0	0.0	0.1	0.9	1.5	1.7
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)						
Solid Fossil Fuels, Peat & Products, Oil Shale	5.7	7.2	4.9	3.0	1.8	1.5
Oil and Petroleum Products	1.7	1.6	1.3	0.9	0.7	0.7
Natural Gas	8.9	14.3	16.1	9.8	11.7	13.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	44.8	43.2	48.2	51.0	53.6	57.8
Wastes non-RES	0.1	0.4	0.6	0.7	0.7	0.8
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			3.2	2.8	2.8	2.9
CHP Electricity Generation (TWh)			11.0	9.0	9.4	9.7
CHP in Total Electricity Generation (%)			15.4	13.8	13.7	13.1
CHP Heat Production (PJ)			110.6	105.9	110.8	110.2
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	5960	7892	7181	7264	7779	7882
of which LPG	16	22	21	13	8	5
of which Motor Gasoline	2016	2137	1767	1542	1566	1559
of which Gas/Diesel Oil	3892	5693	5351	5662	6160	6273
Final Consumption Biofuels	16	74	495	653	493	479
Pure and Blended Biogasoline	0	0	78	60	58	57
Pure and Blended Biodiesel	16	74	417	593	435	423
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	27.5	32.7	32.9	31.7	31.8	32.2
Final Energy Consumption 2020-2030 (Mtoe)	23.7	27.9	28.0	27.5	27.8	28.3
Primary Energy Intensity 2020-2030 (toe/M€'15)	98	107	101	92	86	86
Energy Intensity GAE/GDP2010 (toe/M€'15)	104	112	107	98	92	93
Energy per Capita – GIC/pop (kgoe/cap)	3652	4192	4171	3927	3855	3917
Final Electricity per Capita (KWh/cap)	6441	7011	7176	7123	7191	7169
Import Dependency (%)						
of Solid Fossil Fuels	83.9	99.4	99.6	86.9	97.6	96.9
of Hard Coal	91.6	106.8	97.3	83.5	95.7	98.5
of Oil and Petroleum Products	89.0	92.1	90.4	93.8	94.0	95.7
of Crude and NGL	86.9	88.8	86.5	91.1	92.7	94.0
of Natural Gas	80.6	88.5	75.3	72.6	88.2	122.8
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		24.36	31.21	33.50	33.81	33.63
RE-T – Renewable Energy in Transport		5.07	10.71	11.41	9.95	9.77
RES-E – Renewable Electricity Generation		62.90	66.36	71.49	74.21	75.14
RES-H&C – Renewable Heating & Cooling		22.82	30.96	33.23	34.19	33.80
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	67.8	81.0	74.0	68.5	69.1	70.9
GHG Emissions – National total*	81.8	94.1	86.4	80.6	81.2	82.8
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	103.2	118.7	108.9	101.6	102.4	104.4
Total GHG per Capita (t CO ₂ eq/cap)	10.2	11.5	10.3	9.4	9.2	9.3

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

5.22 Poland

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	79.4	78.5	67.2	68.1	61.9	59.7
Solid Fossil Fuels	71.3	68.9	55.4	53.9	47.3	44.6
of which Hard Coal	59.2	56.2	43.9	41.6	36.0	35.1
of which Brown Coal	12.1	12.7	11.6	12.3	11.3	9.5
Oil and Petroleum Products	0.9	0.9	0.8	1.0	1.1	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	3.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	3.8	4.5	6.9	9.0	9.0	9.5
Wastes, Non-Renewable	0.1	0.2	0.4	0.5	1.0	1.1
Net Imports	9.6	16.5	32.1	28.7	48.0	48.8
Solid Fossil Fuels	-16.3	-13.0	-2.7	-5.5	4.1	2.6
of which Hard Coal	-13.8	-9.7	1.8	-1.0	8.6	6.9
Oil and Petroleum Products	19.8	22.0	25.7	24.1	30.7	30.7
of which Crude Oil and NGL	18.1	18.0	22.8	26.6	27.0	26.8
Natural gas	6.6	8.5	8.9	9.9	12.5	14.1
Renewables and Biofuels	0.0	-0.1	0.4	0.1	0.2	0.5
Electricity	-0.5	-1.0	-0.1	0.0	0.5	0.9
Gross Inland Consumption	89.2	92.6	101.6	95.9	106.9	104.0
Solid Fossil Fuels	56.3	54.7	55.2	48.4	49.3	43.8
of which Hard Coal	46.3	45.5	48.5	40.7	42.6	38.8
of which Brown Coal	12.1	12.7	11.6	12.3	11.3	9.5
Oil and Petroleum Products	19.6	22.0	26.0	24.1	30.8	31.3
of which Crude and NGL	18.3	18.5	23.2	26.5	27.4	27.7
Natural Gas	10.0	12.2	12.8	13.8	16.1	16.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	3.8	4.5	7.3	9.1	9.2	9.9
Electricity	-0.5	-1.0	-0.1	0.0	0.5	0.9
Waste, Non-Renewable	0.1	0.2	0.4	0.5	1.0	1.1
Available for Final Consumption	57.1	61.7	70.4	65.2	76.7	75.6
Final Non-Energy Consumption	4.4	4.6	5.0	5.6	5.6	5.6
Final Energy Consumption	53.6	57.5	65.3	60.9	70.0	69.1
by Fuel/Product						
Solid Fossil Fuels	11.9	11.5	13.2	10.7	10.7	9.0
Oil and Petroleum Products	15.2	17.6	20.2	18.6	24.8	25.4
Natural Gas	6.3	7.9	8.9	8.5	9.3	9.3
Renewables and Biofuels	3.5	3.9	5.3	5.6	6.3	6.4
Solid Biofuels and Renewable Waste	3.5	3.8	4.3	4.6	5.0	4.9
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	0.9	1.0
Biogases	0.0	0.0	0.0	0.1	0.1	0.1
Waste, Non-Renewable	0.1	0.1	0.4	0.5	0.8	0.8
Electricity	8.4	9.0	10.2	11.0	12.1	12.1
Heat	6.9	6.6	6.5	5.5	5.6	5.6
by Sector						
Industry	17.1	14.6	13.5	14.1	16.4	16.5
Transport	9.6	12.2	17.2	16.6	22.3	22.8
Residential	17.2	19.5	22.0	19.0	19.5	18.2
Services	5.0	6.7	8.8	7.8	7.9	7.8
Agriculture and Fishing	4.6	4.4	3.7	3.3	3.9	3.8
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	28.4	29.8	29.9	30.0	34.3	33.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.2	2.3	2.3	2.4	2.4	2.4
Wind	0.0	0.1	1.1	4.9	5.8	5.8
Solar	0.0	0.0	0.0	0.1	0.6	1.5
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	135.9	141.9	136.5	130.5	130.6	118.1
Oil and Petroleum Products	1.9	2.8	2.9	2.1	1.8	1.8
Natural Gas	3.0	6.5	6.7	8.8	15.1	17.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	4.3	5.4	11.5	23.3	22.0	26.2
Wastes non-RES	0.1	0.0	0.0	0.1	0.4	0.6
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			8.7	8.6	10.1	9.7
CHP Electricity Generation (TWh)			27.7	26.5	28.8	29.9
CHP in Total Electricity Generation (%)			17.6	16.1	17.0	18.3
CHP Heat Production (PJ)			277.1	238.6	247.1	248.5
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	9135	11597	15811	15281	20717	21076
of which LPG	480	1750	1824	1791	2039	2126
of which Motor Gasoline	5248	4173	4243	3654	4387	4536
of which Gas/Diesel Oil	3404	5670	9740	9817	14257	14380
Final Consumption Biofuels	0	50	867	653	912	1025
Pure and Blended Biogasoline	0	34	170	153	173	187
Pure and Blended Biodiesel	0	15	698	500	740	838
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	84.8	88.0	96.6	90.1	101.0	98.1
Final Energy Consumption 2020-2030 (Mtoe)	55.1	58.5	66.3	62.3	71.8	71.0
Primary Energy Intensity 2020-2030 (toe/M€'15)	335	299	259	209	206	191
Energy Intensity GAE/GDP2010 (toe/M€'15)	353	315	274	223	219	203
Energy per Capita – GIC/pop (kgoe/cap)	2332	2425	2672	2522	2814	2738
Final Electricity per Capita (KWh/cap)	2563	2751	3122	3363	3699	3698
Import Dependency (%)						
of Solid Fossil Fuels	-29.0	-23.8	-5.0	-11.4	8.2	6.0
of Hard Coal	-29.9	-21.3	3.7	-2.4	20.2	17.8
of Oil and Petroleum Products	99.7	98.5	98.2	99.5	98.8	97.3
of Crude and NGL	99.2	97.4	98.4	100.5	98.3	96.7
of Natural Gas	66.3	69.7	69.3	72.2	77.6	83.1
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		6.90	9.30	11.89	11.48	12.16
RE-T – Renewable Energy in Transport		1.75	6.64	5.69	5.65	6.12
RES-E – Renewable Electricity Generation		2.68	6.65	13.43	13.03	14.36
RES-H&C – Renewable Heating & Cooling		10.16	11.81	14.80	15.14	15.98
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	318.5	324.3	336.3	315.3	340.0	322.7
GHG Emissions – National total*	397.4	406.1	415.0	392.7	414.9	394.0
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	83.4	85.2	87.1	82.4	87.1	82.7
Total GHG per Capita (t CO ₂ eq/cap)	10.4	10.6	10.9	10.3	10.9	10.4

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

5.23 Portugal

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	3.8	3.6	5.8	5.9	6.5	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	3.8	3.5	5.6	5.8	6.4	6.4
Wastes, Non-Renewable	0.1	0.1	0.2	0.1	0.1	0.2
Net Imports	22.2	24.8	18.7	18.5	18.8	18.4
Solid Fossil Fuels	3.9	3.2	1.6	3.2	2.7	1.5
of which Hard Coal	4.0	3.2	1.6	3.2	2.7	1.5
Oil and Petroleum Products	16.2	17.1	12.5	11.2	11.5	11.6
of which Crude Oil and NGL	11.7	13.4	11.5	14.4	13.0	11.5
Natural gas	2.0	3.9	4.5	4.1	5.1	5.3
Renewables and Biofuels	0.0	0.0	-0.2	-0.2	-0.3	-0.3
Electricity	0.1	0.6	0.2	0.2	-0.2	0.3
Gross Inland Consumption	25.4	27.4	24.4	23.6	24.0	23.9
Solid Fossil Fuels	3.8	3.3	1.7	3.3	2.7	1.2
of which Hard Coal	3.8	3.3	1.7	3.3	2.7	1.2
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	10.2	10.8
of which Crude and NGL	11.8	13.4	11.6	14.2	12.9	11.4
Natural Gas	2.0	3.8	4.5	4.1	5.0	5.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	3.8	3.5	5.5	5.6	6.1	6.1
Electricity	0.1	0.6	0.2	0.2	-0.2	0.3
Waste, Non-Renewable	0.1	0.1	0.2	0.2	0.2	0.2
Available for Final Consumption	19.5	20.9	19.0	16.9	16.9	17.6
Final Non-Energy Consumption	2.4	2.6	1.7	1.3	0.7	1.2
Final Energy Consumption	17.2	18.3	17.3	15.6	16.2	16.4
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	7.2
Natural Gas	0.8	1.3	1.6	1.6	1.8	1.8
Renewables and Biofuels	2.4	2.5	2.5	2.8	2.8	2.9
Solid Biofuels and Renewable Waste	2.4	2.5	2.2	1.7	1.8	1.8
Solar Thermal	0.0	0.0	0.0	0.1	0.1	0.1
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid Biofuels	0.0	0.0	0.3	0.3	0.3	0.3
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, Non-Renewable	0.0	0.0	0.1	0.1	0.1	0.1
Electricity	3.3	4.0	4.3	3.9	4.1	4.1
Heat	0.1	0.3	0.3	0.2	0.2	0.2
by Sector						
Industry	6.3	5.8	5.5	4.4	4.6	4.6
Transport	6.0	6.4	6.5	5.6	5.8	6.0
Residential	2.8	3.2	3.0	2.8	2.9	2.9
Services	1.4	2.2	1.9	2.4	2.4	2.4
Agriculture and Fishing	0.7	0.6	0.5	0.4	0.5	0.5
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	6.3	7.3	9.9	8.0	8.1	8.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.5	5.0	5.1	6.2	7.2	7.3
Wind	0.1	1.1	3.8	4.9	5.2	5.2
Solar	0.0	0.0	0.1	0.4	0.7	0.9
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	14.6	15.2	7.1	14.7	12.0	5.5
Oil and Petroleum Products	8.4	8.8	3.0	1.3	1.1	1.3
Natural Gas	7.2	13.6	14.9	10.6	15.6	17.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and Biofuels	13.3	8.6	28.8	25.5	30.6	28.8
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	1.3
CHP Electricity Generation (TWh)			6.4	6.5	6.2	6.4
CHP in Total Electricity Generation (%)			11.8	12.3	10.3	12.1
CHP Heat Production (PJ)			67.2	59.3	59.6	62.1
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	5 932	6 382	6 103	5 188	5 527	5 651
of which LPG	23	25	32	40	40	41
of which Motor Gasoline	2 272	1 935	1 450	1 099	1 068	1 107
of which Gas/Diesel Oil	3 523	4 286	4 407	3 875	4 178	4 277
Final Consumption Biofuels	0	0	309	327	262	272
Pure and Blended Biogasoline	0	0	0	21	6	8
Pure and Blended Biodiesel	0	0	305	302	257	264
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	23.0	24.9	22.7	21.6	22.7	22.1
Final Energy Consumption 2020-2030 (Mtoe)	18.0	19.0	18.1	16.0	16.9	17.1
Primary Energy Intensity 2020-2030 (toe/M€'15)	132	137	121	120	116	110
Energy Intensity GAE/GDP2010 (toe/M€'15)	149	154	133	135	127	124
Energy per Capita – GIC/pop (kgoe/cap)	2 476	2 614	2 306	2 274	2 335	2 327
Final Electricity per Capita (KWh/cap)	3 744	4 414	4 718	4 416	4 660	4 659
Import Dependency (%)						
of Solid Fossil Fuels	102.9	96.3	98.3	98.5	98.9	122.1
of Hard Coal	103.4	96.3	98.3	98.5	98.9	122.3
of Oil and Petroleum Products	99.4	102.3	97.5	101.7	103.9	98.1
of Crude and NGL	99.0	100.2	98.8	100.9	100.9	100.4
of Natural Gas	100.3	103.8	100.4	100.4	101.1	99.9
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		19.53	24.16	30.52	30.21	30.62
RE-T – Renewable Energy in Transport		0.45	5.55	7.43	9.04	9.09
RES-E – Renewable Electricity Generation		27.70	40.61	52.62	52.19	53.77
RES-H&C – Renewable Heating & Cooling		32.09	33.83	40.11	40.93	41.65
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	67.9	72.2	55.9	55.6	55.7	52.2
GHG Emissions – National total*	83.9	88.2	71.6	70.9	71.4	68.0
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	138.8	146.0	118.5	117.4	118.2	112.6
Total GHG per Capita (t CO ₂ eq/cap)	8.2	8.4	6.8	6.8	6.9	6.6

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

5.24 Romania

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	28.5	27.9	27.4	26.4	25.1	24.5
Solid Fossil Fuels	5.6	5.8	5.9	4.7	4.0	3.9
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	4.0	3.9
Oil and Petroleum Products	6.4	5.9	4.2	3.9	3.5	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	8.3
Nuclear	1.4	1.4	2.9	2.9	2.9	2.8
Renewables and Biofuels	4.0	5.0	5.7	5.9	5.9	5.8
Wastes, Non-Renewable	0.1	0.1	0.0	0.1	0.2	0.1
Net Imports	8.0	10.6	7.5	5.3	8.2	10.1
Solid Fossil Fuels	1.9	2.9	1.2	1.0	0.9	1.1
of which Hard Coal	1.6	2.1	0.1	0.1	0.1	0.1
Oil and Petroleum Products	3.5	3.8	4.6	4.7	6.1	6.5
of which Crude Oil and NGL	4.8	8.7	5.7	6.5	8.2	8.6
Natural gas	2.7	4.2	1.8	0.2	1.2	2.1
Renewables and Biofuels	0.0	0.0	0.1	0.0	0.1	0.2
Electricity	-0.1	-0.2	-0.2	-0.6	-0.2	0.1
Gross Inland Consumption	36.8	38.7	35.0	31.9	33.6	33.1
Solid Fossil Fuels	7.5	8.8	6.9	5.9	5.0	4.9
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	4.5	4.3
Oil and Petroleum Products	10.1	9.8	8.6	8.6	9.7	9.8
of which Crude and NGL	11.1	14.0	10.0	10.4	11.6	12.0
Natural Gas	13.7	13.9	10.8	8.9	9.9	9.2
Nuclear	1.4	1.4	2.9	2.9	2.9	2.8
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	0.1
Waste, Non-Renewable	0.1	0.1	0.0	0.1	0.2	0.2
Available for Final Consumption	24.1	26.0	24.8	22.8	24.9	25.0
Final Non-Energy Consumption	1.9	2.6	2.1	1.1	1.0	1.1
Final Energy Consumption	21.9	23.6	22.0	21.6	23.4	23.7
by Fuel/Product						
Solid Fossil Fuels	0.3	0.6	0.5	0.8	0.6	0.7
Oil and Petroleum Products	5.4	6.5	6.0	6.8	7.9	8.3
Natural Gas	6.5	7.2	6.0	5.3	5.8	5.6
Renewables and Biofuels	2.7	3.2	4.0	3.5	3.7	3.8
Solid Biofuels and Renewable Waste	2.7	3.2	3.9	3.3	3.4	3.4
Solar Thermal	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid Biofuels	0.0	0.0	0.1	0.2	0.3	0.4
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, Non-Renewable	0.1	0.1	0.0	0.1	0.2	0.2
Electricity	2.9	3.3	3.6	3.7	3.9	3.9
Heat	3.6	2.1	1.6	1.3	1.2	1.1
by Sector						
Industry	8.6	9.0	6.5	6.4	6.6	6.7
Transport	3.3	4.2	5.0	5.3	6.3	6.6
Residential	8.4	8.0	8.1	7.4	7.8	7.8
Services	0.7	1.7	1.9	1.8	2.0	2.0
Agriculture and Fishing	0.4	0.2	0.4	0.5	0.6	0.6
Others	0.5	0.6	0.2	0.2	0.2	0.2

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)	16.8	19.0	19.9	23.8	23.6	20.9
Combustible Fuels	10.0	12.0	11.6	11.2	11.0	8.4
Nuclear	0.7	0.7	1.4	1.4	1.4	1.4
Hydro	6.1	6.3	6.5	6.7	6.7	6.7
Wind	0.0	0.0	0.4	3.1	3.0	3.0
Solar	0.0	0.0	0.0	1.3	1.4	1.4
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)	51.6	59.4	61.0	66.3	64.9	59.6
Solid Fossil Fuels, Peat & Products, Oil Shale	18.9	21.9	20.7	18.1	15.6	13.6
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	10.6	9.1
Nuclear	5.5	5.6	11.6	11.6	11.4	11.3
Renewables and Biofuels	14.8	20.2	20.7	26.6	26.6	25.1
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	1.6	1.3
CHP Electricity Generation (TWh)			6.5	5.6	5.4	5.1
CHP in Total Electricity Generation (%)			10.8	8.4	8.3	12.1
CHP Heat Production (PJ)			69.0	51.0	42.2	62.1
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	3 134	3 983	4 723	5 041	5 916	6 068
of which LPG	0	55	20	63	94	99
of which Motor Gasoline	1 304	1 600	1 412	1 269	1 320	1 322
of which Gas/Diesel Oil	1 760	2 304	3 180	3 676	4 446	4 583
Final Consumption Biofuels	0	0	116	202	297	412
Pure and Blended Biogasoline	0	0	47	61	90	98
Pure and Blended Biodiesel	0	0	69	141	207	315
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	34.9	36.1	32.9	30.7	32.6	32.0
Final Energy Consumption 2020-2030 (Mtoe)	22.7	24.6	22.5	21.8	23.6	23.9
Primary Energy Intensity 2020-2030 (toe/M€'15)	379	298	237	192	173	163
Energy Intensity GAE/GDP2010 (toe/M€'15)	400	320	252	199	179	169
Energy per Capita – GIC/pop (kgoe/cap)	1 637	1 809	1 725	1 604	1 720	1 705
Final Electricity per Capita (KWh/cap)	1 511	1 817	2 036	2 166	2 333	2 347
Import Dependency (%)	21.9	27.5	21.4	16.7	24.3	30.4
of Solid Fossil Fuels	25.5	33.2	16.9	16.7	17.6	22.0
of Hard Coal	96.3	103.1	88.4	96.9	103.3	97.7
of Oil and Petroleum Products	34.4	38.6	52.6	54.2	63.1	65.8
of Crude and NGL	43.5	62.0	57.2	63.0	70.8	71.9
of Natural Gas	19.8	30.1	16.8	1.8	12.0	23.2
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		17.57	22.83	24.79	23.88	24.29
RE-T – Renewable Energy in Transport		1.87	1.37	5.49	6.34	7.85
RES-E – Renewable Electricity Generation		28.78	30.38	43.16	41.79	41.71
RES-H&C – Renewable Heating & Cooling		17.93	27.23	25.89	25.43	25.74
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	95.7	102.8	80.6	80.2	81.1	77.4
GHG Emissions – National total*	142.2	149.5	118.8	117.1	118.6	114.3
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	53.2	56.0	44.5	43.8	44.4	42.8
Total GHG per Capita (t CO ₂ eq/cap)	6.3	7.0	5.9	5.9	6.1	5.9

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

5.25 Slovenia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	3.2	3.7	3.7	3.3	3.4	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	1.4	1.4
Renewables and Biofuels	0.9	1.0	1.1	1.1	1.1	1.0
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	2.6
of which Crude Oil and NGL	0.1	0.0	0.0	0.0	0.0	0.0
Natural gas	0.8	0.9	0.9	0.7	0.7	0.7
Renewables and Biofuels	0.0	0.0	0.0	0.0	0.1	0.1
Electricity	-0.1	0.0	-0.2	0.0	0.0	0.0
Gross Inland Consumption	6.6	7.6	7.3	6.5	6.8	6.7
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	1.0
Oil and Petroleum Products	2.4	2.6	2.6	2.3	2.5	2.4
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	1.4	1.4
Renewables and Biofuels	0.9	1.0	1.2	1.1	1.2	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	4.8	5.4	5.3	4.8	5.1	5.0
Final Non-Energy Consumption	0.2	0.3	0.2	0.1	0.2	0.2
Final Energy Consumption	4.5	5.1	5.0	4.7	5.0	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	2.2
Natural Gas	0.6	0.7	0.6	0.6	0.6	0.6
Renewables and Biofuels	0.5	0.7	0.7	0.7	0.6	0.6
Solid Biofuels and Renewable Waste	0.5	0.7	0.6	0.6	0.5	0.5
Solar Thermal	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid Biofuels	0.0	0.0	0.0	0.0	0.1	0.1
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, Non-Renewable	0.0	0.0	0.0	0.0	0.0	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	1.3
Transport	1.2	1.5	1.8	1.8	2.0	1.9
Residential	1.2	1.4	1.4	1.2	1.1	1.1
Services	0.5	0.5	0.5	0.5	0.5	0.5
Agriculture and Fishing	0.1	0.1	0.1	0.1	0.1	0.1
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	2.6	3.0	3.2	3.4	3.8	3.8
Nuclear	1.1	1.4	1.3	1.1	1.5	1.5
Hydro	0.7	0.7	0.7	0.7	0.7	0.7
Wind	0.8	1.0	1.3	1.3	1.3	1.4
Solar	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.0	0.2	0.2	0.3
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	13.6	15.1	16.4	15.1	16.3	16.1
Oil and Petroleum Products	4.6	5.3	5.3	4.4	4.6	4.5
Natural Gas	0.1	0.0	0.0	0.0	0.0	0.0
Nuclear	0.3	0.3	0.5	0.4	0.5	0.5
Nuclear	4.8	5.9	5.7	5.6	5.8	5.8
Renewables and Biofuels	3.9	3.6	4.9	4.6	5.4	5.2
Wastes non-RES	0.0	0.0	0.0	0.0	0.0	0.0
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.3	0.4	0.4	0.4
CHP Electricity Generation (TWh)			1.1	1.2	1.3	1.2
CHP in Total Electricity Generation (%)			6.9	7.7	8.0	7.3
CHP Heat Production (PJ)			11.6	10.4	11.3	11.0
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 201	1 446	1 718	1 728	1 877	1 807
of which LPG	0	0	5	14	15	14
of which Motor Gasoline	849	689	600	437	426	408
of which Gas/Diesel Oil	351	756	1 111	1 276	1 436	1 385
Final Consumption Biofuels	0	0	46	29	74	95
Pure and Blended Biogasoline	0	0	4	7	8	4
Pure and Blended Biodiesel	0	0	41	23	66	91
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	6.3	7.2	7.0	6.3	6.7	6.5
Final Energy Consumption 2020-2030 (Mtoe)	4.6	5.1	5.1	4.7	5.0	4.8
Primary Energy Intensity 2020-2030 (toe/M€'15)	217	209	185	163	152	144
Energy Intensity GAE/GDP2010 (toe/M€'15)	225	219	191	169	161	153
Energy per Capita – GIC/pop (kgoe/cap)	3 301	3 786	3 544	3 151	3 310	3 230
Final Electricity per Capita (KWh/cap)	5 293	6 379	5 835	6 199	6 634	6 574
Import Dependency (%)						
of Solid Fossil Fuels	51.9	50.8	49.3	49.3	51.2	52.1
of Hard Coal	18.8	21.0	19.3	19.1	18.9	20.1
of Oil and Petroleum Products	118.2	100.0	135.3	124.2	90.4	95.9
of Crude and NGL	101.5	101.2	99.2	99.6	99.2	101.4
of Natural Gas	87.2	0.0	0.0	0.0	0.0	0.0
of Natural Gas	99.3	99.6	99.3	99.6	98.1	99.4
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		19.81	21.08	22.88	21.38	21.97
RE-T – Renewable Energy in Transport		0.83	3.12	2.24	5.48	7.98
RES-E – Renewable Electricity Generation		28.65	32.20	32.73	32.31	32.63
RES-H&C – Renewable Heating & Cooling		26.40	29.54	36.15	32.34	32.16
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	15.1	17.0	16.5	13.7	14.6	14.1
GHG Emissions – National total*	18.7	20.5	19.7	16.8	17.6	17.1
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	100.1	110.0	105.7	90.4	94.6	92.0
Total GHG per Capita (t CO ₂ eq/cap)	9.4	10.3	9.6	8.2	8.5	8.2

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

5.26 Slovakia

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	6.3	6.4	6.0	6.4	6.0	6.9
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	3.8	4.0
Renewables and Biofuels	0.5	0.9	1.4	1.6	1.6	2.2
Wastes, Non-Renewable	0.3	0.1	0.0	0.2	0.2	0.2
Net Imports	11.5	12.3	11.4	9.8	10.9	11.9
Solid Fossil Fuels	3.4	3.7	3.0	2.8	3.1	2.5
of which Hard Coal	3.1	3.5	2.6	2.5	2.7	2.2
Oil and Petroleum Products	2.6	3.2	3.5	3.1	3.8	3.6
of which Crude Oil and NGL	5.3	5.3	5.5	5.9	5.4	5.2
Natural Gas	5.7	5.7	5.0	3.7	3.7	5.6
Renewables and Biofuels	0.0	0.0	-0.1	0.0	0.0	0.0
Electricity	-0.2	-0.3	0.1	0.2	0.3	0.1
Gross Inland Consumption	17.7	18.7	17.7	16.3	17.0	17.0
Solid Fossil Fuels	4.3	4.2	3.9	3.3	3.3	2.7
of which Hard Coal	3.0	3.3	2.8	2.6	2.7	2.2
of which Brown Coal	1.2	0.9	0.8	0.7	0.6	0.5
Oil and Petroleum Products	2.9	3.3	3.5	3.1	3.8	3.6
of which Crude Oil and NGL	5.4	5.5	5.5	5.9	5.4	5.1
Natural Gas	5.8	5.9	5.0	3.9	4.1	4.1
Nuclear	4.3	4.7	3.9	4.0	3.8	4.0
Renewables and Biofuels	0.5	0.8	1.3	1.6	1.6	2.2
Electricity	-0.2	-0.3	0.1	0.2	0.3	0.1
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	11.2	11.3
Final Non-Energy Consumption	1.4	1.3	1.1	1.0	1.3	1.0
Final Energy Consumption	9.9	10.4	10.4	8.9	9.9	10.2
by Fuel/Product						
Solid Fossil Fuels	0.9	0.6	0.7	0.4	0.4	0.4
Oil and Petroleum Products	1.7	2.1	2.3	2.1	2.8	2.8
Natural Gas	4.2	3.9	3.5	2.5	2.6	2.6
Renewables and Biofuels	0.1	0.3	0.5	0.6	0.7	1.2
Solid Biofuels and Renewable Waste	0.1	0.3	0.4	0.4	0.5	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	0.1	0.1	0.1	0.2
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, Non-Renewable	0.2	0.0	0.0	0.2	0.2	0.2
Electricity	1.9	2.0	2.1	2.1	2.2	2.2
Heat	0.6	1.0	0.9	0.6	0.6	0.5
by Sector						
Industry	3.5	3.6	3.2	3.3	3.7	3.5
Transport	1.4	2.4	2.6	2.2	2.7	2.8
Residential	2.6	2.5	2.3	2.0	2.1	2.6
Services	2.2	1.8	2.1	1.3	1.3	1.2
Agriculture and Fishing	0.2	0.2	0.1	0.2	0.1	0.1
Others	0.0	0.0	0.0	0.0	0.0	0.0

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)	7.5	8.3	7.9	7.8	7.6	7.7
Combustible Fuels	2.4	3.1	3.5	2.8	2.7	2.6
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	0.6
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)	31.2	31.4	27.8	26.8	26.9	28.4
Solid Fossil Fuels, Peat & Products, Oil Shale	5.6	5.5	3.6	2.8	3.0	2.3
Oil and Petroleum Products	0.2	0.7	0.6	0.4	0.5	0.5
Natural Gas	3.9	2.6	2.7	2.1	2.4	3.4
Nuclear	16.5	17.7	14.6	15.1	14.8	15.3
Renewables and Biofuels	5.0	4.8	6.3	6.3	6.1	6.9
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	1.8	1.5
CHP Electricity Generation (TWh)			4.4	21.1	3.0	3.1
CHP in Total Electricity Generation (%)			15.9	78.5	11.2	10.8
CHP Heat Production (PJ)			20.1	27.3	32.1	34.9
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 347	1 694	2 055	1 881	2 410	2 403
of which LPG	0	1	2	37	35	35
of which Motor Gasoline	605	667	600	577	571	549
of which Gas/Diesel Oil	742	1 014	1 453	1 267	1 804	1 819
Final Consumption Biofuels	0	11	98	144	150	157
Pure and Blended Biogasoline	0	0	24	23	18	20
Pure and Blended Biodiesel	0	11	74	121	132	137
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	16.4	17.4	16.7	15.2	15.8	16.0
Final Energy Consumption 2020-2030 (Mtoe)	11.0	11.6	11.5	10.1	11.1	11.2
Primary Energy Intensity 2020-2030 (toe/M€'15)	378	315	237	191	181	179
Energy Intensity GAE/GDP2010 (toe/M€'15)	410	338	252	204	196	191
Energy per Capita – GIC/pop (kgoe/cap)	3 284	3 480	3 286	3 000	3 132	3 123
Final Electricity per Capita (KWh/cap)	4 077	4 253	4 477	4 495	4 765	4 622
Import Dependency (%)	65.1	66.0	64.4	60.1	63.7	69.8
of Solid Fossil Fuels	80.2	88.3	75.7	84.5	91.9	92.2
of Hard Coal	103.8	105.2	91.9	97.5	100.9	102.7
of Oil and Petroleum Products	92.5	97.4	98.4	100.6	101.3	101.3
of Crude and NGL	97.6	97.8	99.9	99.3	100.0	100.5
of Natural Gas	98.8	97.5	99.9	95.1	89.6	136.6
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		6.36	9.10	12.88	11.90	16.89
RE-T – Renewable Energy in Transport		1.66	5.29	8.63	6.99	8.31
RES-E – Renewable Electricity Generation		15.74	17.77	22.66	21.50	21.95
RES-H&C – Renewable Heating & Cooling		5.03	7.90	10.79	10.60	19.70
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	41.3	43.0	38.6	34.6	36.3	34.0
GHG Emissions – National total*	48.8	50.6	45.5	40.9	42.4	40.2
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	66.3	68.8	61.9	55.6	57.7	54.6
Total GHG per Capita (t CO ₂ eq/cap)	9.0	9.4	8.4	7.5	7.8	7.4

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

5.27 Finland

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	14.9	16.7	17.1	17.2	19.7	19.3
Solid Fossil Fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which Hard Coal	0.0	0.0	0.0	0.0	0.0	0.0
of which Brown Coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and Petroleum Products	0.1	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	5.7
Renewables and Biofuels	7.8	8.2	9.4	10.4	12.0	12.1
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	15.8	14.6
Solid Fossil Fuels	3.5	3.3	4.0	2.5	2.8	2.1
of which Hard Coal	3.2	3.0	3.7	2.3	2.6	2.0
Oil and Petroleum Products	10.6	10.9	9.5	9.6	9.0	8.4
of which Crude Oil and NGL	11.9	10.8	11.4	11.1	13.0	12.7
Natural gas	3.4	3.6	3.8	2.2	2.2	2.1
Renewables and Biofuels	0.0	-0.1	-0.1	0.1	0.1	0.1
Electricity	1.0	1.5	0.9	1.4	1.7	1.7
Gross Inland Consumption	32.8	34.8	36.8	32.7	34.9	34.2
Solid Fossil Fuels	3.6	3.3	4.6	2.7	2.8	2.1
of which Hard Coal	3.3	2.9	4.3	2.6	2.6	2.1
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	8.5
of which Crude and NGL	11.7	11.1	11.3	10.7	13.0	12.8
Natural Gas	3.4	3.6	3.8	2.2	2.2	2.1
Nuclear	5.8	6.0	5.6	5.6	5.4	5.7
Renewables and Biofuels	7.8	8.1	9.3	10.5	12.1	12.2
Electricity	1.0	1.5	0.9	1.4	1.7	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	26.3	24.0	26.4	25.9
Final Non-Energy Consumption	1.0	1.2	1.2	1.3	1.4	1.4
Final Energy Consumption	23.3	24.0	25.0	23.0	25.1	24.7
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	6.2	5.8
Natural Gas	0.9	0.8	0.8	0.6	0.6	0.7
Renewables and Biofuels	4.5	4.2	4.8	5.4	6.6	6.8
Solid Biofuels and Renewable Waste	4.5	4.2	4.6	4.9	5.6	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	0.0
Electricity	6.5	6.9	7.2	6.7	7.1	7.0
Heat	3.3	3.8	4.6	3.8	4.0	3.9
by Sector						
Industry	11.5	11.1	10.7	10.2	11.1	10.9
Transport	3.9	4.2	4.3	4.1	4.2	4.2
Residential	4.5	5.0	5.8	5.0	5.7	5.6
Services	2.3	2.6	3.1	2.7	3.1	3.0
Agriculture and Fishing	0.8	0.8	0.8	0.7	0.7	0.7
Others	0.3	0.3	0.3	0.3	0.2	0.2

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	10.7	10.7	9.5	9.6	8.9	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	2.3
Solar	0.0	0.0	0.0	0.0	0.1	0.2
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel (TWh)						
Solid Fossil Fuels, Peat & Products, Oil Shale	12.5	11.0	20.8	8.2	9.3	7.4
Oil and Petroleum Products	0.6	0.5	0.5	0.2	0.3	0.3
Natural Gas	10.8	11.9	11.8	5.8	5.0	4.5
Nuclear	22.5	23.3	22.8	23.2	22.8	23.9
Renewables and Biofuels	23.4	23.5	24.2	30.5	32.1	31.9
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	6.4	6.4
CHP Electricity Generation (TWh)			29.2	21.7	22.8	22.5
CHP in Total Electricity Generation (%)			36.2	31.7	32.5	32.8
CHP Heat Production (PJ)			272.8	242.4	245.7	242.7
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	3872	4147	4086	3542	3790	3657
of which LPG	0	0	0	0	0	0
of which Motor Gasoline	1748	1835	1531	1361	1283	1255
of which Gas/Diesel Oil	1947	2167	2435	2109	2426	2323
Final Consumption Biofuels	0	0	140	496	366	428
Pure and Blended Biogasoline	0	0	78	66	84	89
Pure and Blended Biodiesel	0	0	63	430	281	338
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	31.6	33.6	35.4	31.2	32.7	32.1
Final Energy Consumption 2020-2030 (Mtoe)	24.4	25.2	26.2	24.2	25.8	25.3
Primary Energy Intensity 2020-2030 (toe/M€'15)	179	167	168	148	144	139
Energy Intensity GAE/GDP2010 (toe/M€'15)	189	176	176	156	155	150
Energy per Capita – GIC/pop (kgoe/cap)	6336	6654	6875	5967	6328	6204
Final Electricity per Capita (KWh/cap)	14636	15421	15604	14346	15013	14797
Import Dependency (%)						
of Solid Fossil Fuels	97.6	102.0	86.3	91.3	100.7	98.8
of Hard Coal	97.7	102.6	85.5	88.6	99.7	96.0
of Oil and Petroleum Products	104.1	99.1	92.3	109.6	98.6	95.0
of Crude and NGL	101.5	97.5	101.1	104.2	100.1	99.0
of Natural Gas	100.0	100.0	100.0	100.0	100.3	100.6
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		28.81	32.29	39.32	41.16	43.08
RE-T – Renewable Energy in Transport		0.91	4.41	24.78	17.68	21.29
RES-E – Renewable Electricity Generation		26.92	27.66	32.47	36.77	38.07
RES-H&C – Renewable Heating & Cooling		39.12	43.97	52.62	54.64	57.49
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	58.2	58.4	65.8	46.1	48.3	45.2
GHG Emissions – National total*	71.3	71.2	77.4	57.1	58.7	55.7
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	98.7	98.6	107.1	79.1	81.3	77.0
Total GHG per Capita (t CO ₂ eq/cap)	13.8	13.6	14.5	10.4	10.7	10.1

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

5.28 Sweden

Mtoe, unless otherwise stated	2000	2005	2010	2015	2018	2019
Production	30.0	33.8	31.8	35.8	36.6	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	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	16.7	16.2
Renewables and Biofuels	14.7	14.5	16.5	19.6	19.0	19.9
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	15.4	15.6
Solid Fossil Fuels	2.3	2.5	2.4	1.9	2.0	1.9
of which Hard Coal	2.1	2.2	2.3	1.9	1.9	1.6
Oil and Petroleum Products	15.7	17.4	15.5	13.0	12.2	13.5
of which Crude Oil and NGL	20.8	20.2	20.0	20.3	20.1	16.5
Natural gas	0.8	0.8	1.5	0.7	1.0	1.0
Renewables and Biofuels	0.0	0.1	0.2	0.9	1.5	1.4
Electricity	0.4	-0.6	0.2	-1.9	-1.5	-2.2
Gross Inland Consumption	47.7	51.4	50.5	47.0	51.1	49.7
Solid Fossil Fuels	2.2	2.3	2.1	2.0	2.0	1.9
of which Hard Coal	2.0	2.1	2.0	1.9	1.9	1.7
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	11.6	10.7
of which Crude and NGL	20.7	20.1	20.2	19.5	20.3	16.5
Natural Gas	0.8	0.8	1.5	0.7	1.0	0.9
Nuclear	14.8	18.7	14.5	15.5	16.7	16.2
Renewables and Biofuels	14.7	14.6	16.8	20.5	20.2	21.3
Electricity	0.4	-0.6	0.2	-1.9	-1.5	-2.2
Waste, Non-Renewable	0.3	0.5	0.5	0.6	0.8	0.8
Available for Final Consumption	34.9	33.3	35.0	31.8	35.1	33.4
Final Non-Energy Consumption	1.7	2.4	2.1	1.8	2.2	2.3
Final Energy Consumption	33.7	31.7	32.5	31.5	31.7	31.3
by Fuel/Product						
Solid Fossil Fuels	0.5	0.4	0.4	0.4	0.4	0.3
Oil and Petroleum Products	12.6	10.6	9.5	7.9	7.1	7.1
Natural Gas	0.4	0.5	0.6	0.6	0.5	0.5
Renewables and Biofuels	5.3	4.5	5.4	7.5	8.2	8.2
Solid Biofuels and Renewable Waste	5.3	4.3	5.0	5.3	5.1	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	1.6	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	11.0	10.7
Heat	3.6	4.2	5.1	4.2	4.4	4.3
by Sector						
Industry	13.7	11.7	11.6	11.0	11.0	10.9
Transport	7.5	7.5	7.5	7.3	7.1	7.0
Residential	7.3	7.6	8.3	7.4	7.5	7.4
Services	4.4	4.1	4.3	4.0	4.1	4.0
Agriculture and Fishing	0.8	0.8	0.7	0.7	0.6	0.7
Others	0.0	0.0	0.0	1.1	1.4	1.4

	2000	2005	2010	2015	2018	2019
Installed Electricity Capacity (GW)						
Combustible Fuels	7.5	7.1	8.7	7.8	8.4	8.3
Nuclear	9.5	9.5	9.0	9.7	8.7	8.6
Hydro	16.5	16.3	16.7	16.3	16.4	16.5
Wind	0.2	0.5	2.0	5.8	7.3	8.7
Solar	0.0	0.0	0.0	0.1	0.4	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)						
Solid Fossil Fuels, Peat & Products, Oil Shale	1.7	1.2	1.8	0.6	0.6	0.4
Oil and Petroleum Products	1.5	1.4	1.8	0.3	0.3	0.2
Natural Gas	1.3	1.3	3.8	1.1	1.1	1.1
Nuclear	57.3	72.4	57.8	56.3	68.5	66.1
Renewables and Biofuels	83.2	81.3	82.2	102.6	91.2	99.0
Wastes non-RES	0.2	0.9	1.2	1.2	1.6	1.7
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			5.1	4.9	3.3	3.3
CHP Electricity Generation (TWh)			18.5	13.7	9.1	9.2
CHP in Total Electricity Generation (%)			12.5	8.4	5.6	5.5
CHP Heat Production (PJ)			187.2	151.3	90.6	94.0
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	7 168	7 072	6 905	6 120	5 412	5 384
of which LPG	0	1	1	2	0	0
of which Motor Gasoline	4 208	3 941	3 228	2 395	2 039	1 990
of which Gas/Diesel Oil	2 677	2 799	3 408	3 491	3 098	3 155
Final Consumption Biofuels	0	145	338	820	1 364	1 291
Pure and Blended Biogasoline	0	138	192	129	119	93
Pure and Blended Biodiesel	0	6	146	691	1 245	1 198
Main Energy Indicators						
Primary Energy Consumption 2020-2030 (Mtoe)	46.0	49.0	48.3	43.8	47.3	45.8
Final Energy Consumption 2020-2030 (Mtoe)	35.0	33.2	34.0	31.8	31.9	31.5
Primary Energy Intensity 2020-2030 (toe/M€'15)	140	131	118	96	97	93
Energy Intensity GAE/GDP2010 (toe/M€'15)	149	142	128	107	109	105
Energy per Capita – GIC/pop (kgoe/cap)	5 384	5 705	5 402	4 826	5 045	4 859
Final Electricity per Capita (KWh/cap)	14 526	14 504	14 048	12 810	12 605	12 176
Import Dependency (%)						
of Solid Fossil Fuels	105.4	105.9	113.7	97.4	100.3	103.2
of Hard Coal	107.7	104.3	115.2	99.6	97.1	98.1
of Oil and Petroleum Products	100.8	103.9	93.7	114.6	90.6	106.7
of Crude and NGL	100.6	100.4	99.0	103.6	99.3	100.0
of Natural Gas	100.0	100.0	100.0	100.0	102.1	101.8
Renewable in Gross Final Energy (%)						
Overall RES (with aviation cap)		40.27	46.60	52.95	54.65	56.39
RE-T – Renewable Energy in Transport		6.60	9.63	21.49	29.70	30.31
RES-E – Renewable Electricity Generation		50.90	55.77	65.73	66.23	71.19
RES-H&C – Renewable Heating & Cooling		49.84	58.48	65.28	65.34	66.12
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions – National total*	56.6	55.8	55.2	45.8	44.9	43.6
GHG Emissions – National total*	70.1	68.6	66.7	56.2	55.0	53.6
Main Emissions Indicators						
GHG National Total Emissions/index 1990 (%)	96.6	94.5	91.9	77.4	75.8	73.8
Total GHG per Capita (t CO ₂ eq/cap)	7.9	7.6	7.1	5.8	5.4	5.2

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

A p p e n d i c e s



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Appendices Methodology

Appendix 1 – Country Nomenclature

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

* Latin transliteration.

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

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

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

Appendix 2 – Main Energy Flows in Eurostat Energy Balances – EN

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

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

ESTAT Energy Database – EN	
Code	Dissemination label
C0000X0350-0370	Solid fossil fuels
C0110	Anthracite
C0121	Coking coal
C0129	Other bituminous coal
C0210	Sub-bituminous coal
C0220	Lignite
C0320	Patent fuels
C0311	Coke oven coke
C0312	Gas coke
C0340	Coal tar
C0330	Brown coal briquettes
C0350-0370	Manufactured gases
C0360	Gas works gas
C0350	Coke oven gas
C0371	Blast furnace gas
C0379	Other recovered gases
P1000	Peat and peat products
P1100	Peat
P1200	Peat products
S2000	Oil shale and oil sands
O4000XBIO	Oil and petroleum products
O4100_TOT	Crude oil
O4200	Natural gas liquids
O4300	Refinery feedstocks
O4400X4410	Additives and oxygenates (excluding biofuel portion)
O4500	Other hydrocarbons
O4610	Refinery gas
O4620	Ethane
O4630	Liquefied petroleum gas
O4652XR5210B	Motor gasoline (excluding biofuel portion)
O4651	Aviation gasoline
O4653	Gasoline-type jet fuel
O4661XR5230B	Kerosene-type jet fuel (excluding biofuel portion)
O4669	Other kerosene
O4640	Naphtha
O4671XR5220B	Gas oil and diesel oil (excluding biofuel portion)
O4680	Fuel oil
O4691	White spirit and special boiling point industrial spirits
O4692	Lubricants
O4695	Bitumen
O4694	Petroleum coke
O4693	Paraffin waxes
O4699	Other oil products n.e.c.

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

Appendix 4 – Symbols and Abbreviations

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

Appendix 5 – Conversion Factors

ENERGY

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

VOLUME

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

MASS

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

Appendix 6 – Average Calorific Values*

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

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

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

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 fluoro-carbons, perfluorocarbons and sulphur hexafluoride.

GHG INTENSITY OF THE ENERGY CONSUMPTION

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

GHG GDP INTENSITY

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

GROSS AVAILABLE ENERGY

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

GROSS CALORIFIC VALUE (GCV):

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

GROSS ELECTRICITY GENERATION

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

GROSS ELECTRICITY GENERATION PENETRATION LEVEL

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

GROSS FINAL ENERGY CONSUMPTION

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

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

GROSS HEAT PRODUCED

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

GROSS INLAND CONSUMPTION

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

GROSS INLAND CONSUMPTION 2020-2030

This indicator [GIC 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.

ISIC

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

ISG

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

INHABITANTS

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

LFS

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

The LFS is an important source of information about the situation and trends in the EU labour market, with a sample size of 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 IMPORTS

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

NET ELECTRICITY GENERATION

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

OIL AND PETROLEUM PRODUCTS

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

PRIMARY ENERGY CONSUMPTION

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

PRIMARY ENERGY CONSUMPTION 2020-2030

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

PRIMARY ENERGY INTENSITY 2020-2030

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

PRIMARY ENERGY PRODUCTION - INDIGENOUS PRODUCTION

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

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

PUMPING, PUMPED STORAGE

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

RENEWABLES AND BIOFUELS (RES):

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

SOLAR ENERGY

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

SBS

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

SOLID FOSSIL FUELS

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

TONNE OF OIL EQUIVALENT (TOE)

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

TOTAL ENERGY SUPPLY

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

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

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

TOTAL PRIMARY ENERGY SUPPLY

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

TRANSFORMATION INPUT

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

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

TRANSFORMATION OUTPUT

Transformation output [TO_E] is the result of the transformation process of energy products. This output covers production of derived products (secondary products, by-products and co-products). Transformation output refers always to gross production of derived products, i.e. the products used for the own consumption of the transformation plants are included in the transformation output and their use is reported in the Energy sector.

Transformation output is the sum of the output from electricity & heat generation plants [TO_EHG_E], coke ovens [TO_CO_E], blast furnaces [TO_BF_E], gas works [TO_GW_E], refineries & petrochemical industry [TO_RPI_E], patent fuel plants [TO_PF_E], BKB & PB plants [TO_BKBPB_E], coal liquefaction plants [TO_CL_E], for blended natural gas [TO_BNG_E], liquid biofuels blended [TO_LBB_E], charcoal production plants [TO_CPP_E], gas-TO-liquids plants [TO_GTL_E] and others not elsewhere specified [TO_NSP_E].

TRANSFORMATION LOSSES

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

TURNOVER

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

UNEMPLOYMENT RATE

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

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

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

1.3.1, PAGE 27

Overall RES share is measured against the total gross final energy consumption.

APPENDIX 8.2**2.1.1, PAGES 35-37**

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

2.1.2, PAGES 38-40

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

2.1.3, PAGES 41-44

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

2.2.1, PAGES 45-49

Solid fossil fuels – See Glossary

2.2.2, PAGES 50-54

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 66-72

See, glossary energy import dependency, appendix 12.

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

2.5.1, PAGE 79

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

2.5.2, PAGES 80-83

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

2.5.3, PAGE 84

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

2.6.1, PAGES 86-88

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 89-93

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

2.7.1, PAGES 95-96

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 97-105

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 100-101

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 105

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

2.8, PAGES 106-108

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 109-111

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 112-114

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 116

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 118

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 123-129

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 134**

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 135-137

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

3.3, PAGES 138-149

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

3.4, PAGES 150-154

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

APPENDIX 8.4

4.1.1, PAGES 158-162

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 163-167

Structure of emissions is similar to the GHG emissions.

APPENDIX 8.5

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

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