European Commission

EU energy in figures

STATISTICAL POCKETBOOK

2025

Energy

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Introduction

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

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

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

The publication comprises five parts:

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

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

The appendices include a glossary and methodological notes.

This publication comprises the most recently available data at the time of release. Corrections and updates will be released periodically in the energy statistical datasheets at:
https://energy.ec.europa.eu/data-and-analysis/eu-energy-statistical-pocketbook-and-country-datasheets_en

Recommended sources of data:

European Commission websites:

DG Energy
Pocketbook and energy statistical datasheets:
https://energy.ec.europa.eu/data-and-analysis/eu-energy-statistical-pocketbook-and-country-datasheets_en
Energy data & analysis: https://energy.ec.europa.eu/data-and-analysis_en

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

DG Economic and Financial Affairs
AMECO: https://economy-finance.ec.europa.eu/economic-research-and-databases/economic-databases/ameco-database_en

DG Climate Action
Climate strategies, targets and progress reports:
https://ec.europa.eu/clima/eu-action/climate-strategies-targets_en

Websites of other EU bodies and international organisations:

European Environment Agency
Data and maps: http://www.eea.europa.eu/

International Energy Agency
Statistics and balances: http://www.iea.org/data-and-statistics

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1 Overview

1 Overview

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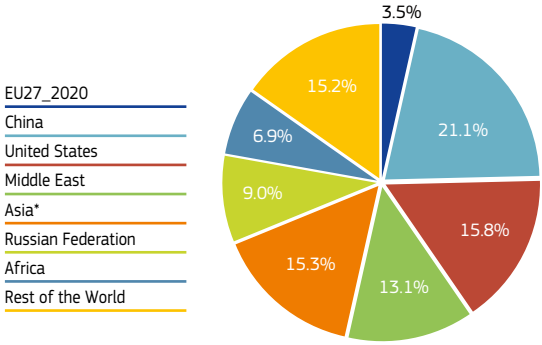
1.1 Energy in the World (Overview)

1.1.1 World Energy Production by Region

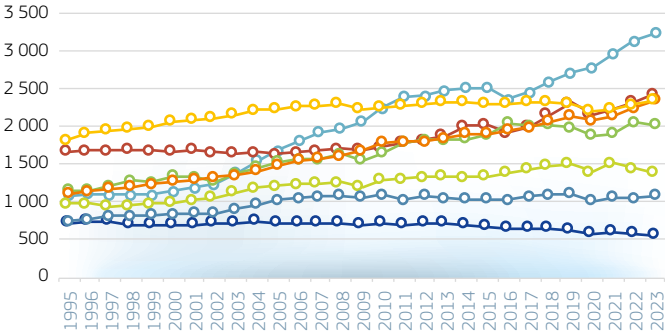
Mtoe

	2000	2010	2019	2021	2022	2023
EU27_2020	679	698	610	588	551	540
China	1128	2241	2710	2958	3127	3241
United States	1666	1724	2307	2216	2321	2426
Middle East	1328	1635	1974	1899	2054	2010
Asia*	1256	1778	2134	2131	2239	2350
Russian Federation	978	1280	1494	1511	1442	1383
Africa	822	1086	1096	1053	1041	1067
Rest of the World	2063	2253	2293	2229	2288	2339
World	9920	12694	14619	14585	15063	15357

TOTAL 2023 = 15357 Mtoe



World Energy Production by Region (Mtoe)



* non OECD and OECD Asia, excluding China
Source: IEA statistics, August 2025

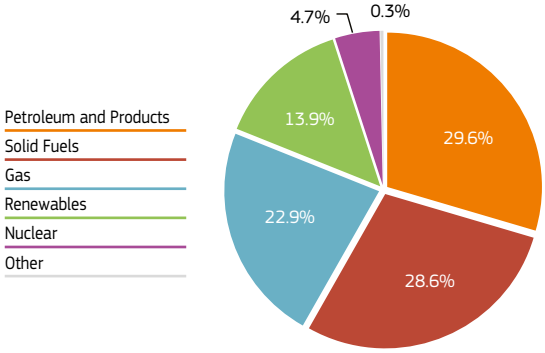
Methodology and Notes: see appendices

1.1.2 World Energy Production by Fuel

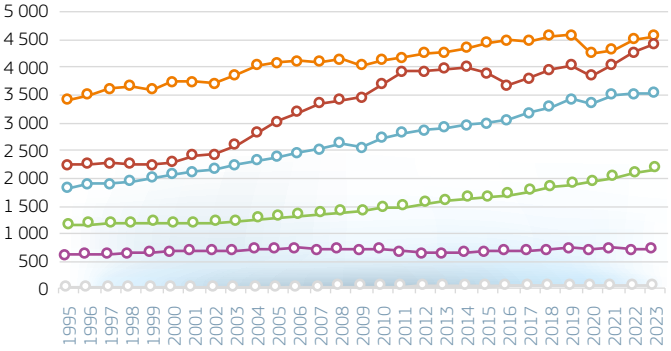
Mtoe

	2000	2010	2019	2021	2022	2023
Petroleum and Products	3711	4108	4554	4286	4487	4541
Solid Fuels	2277	3675	4014	4035	4250	4398
Gas	2060	2713	3404	3486	3503	3512
Renewables	1175	1445	1871	1994	2074	2141
Nuclear	675	719	728	734	700	715
Other	22	34	49	50	50	50
Total	9920	12694	14619	14585	15063	15357

TOTAL 2023 = 15 357 Mtoe



World Energy Production by Fuel (Mtoe)



Source: IEA statistics, August 2025

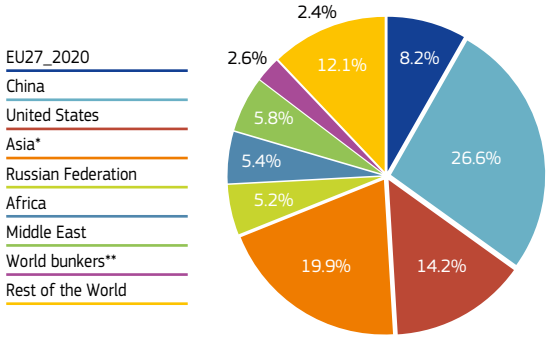
Methodology and Notes: **see appendices**

1.1.3 World Total Energy Supply by Region

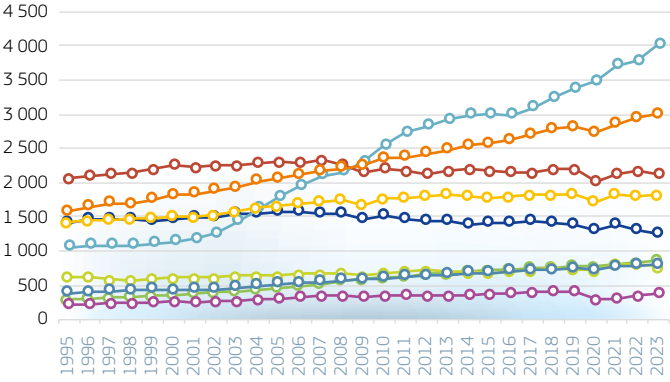
Mtoe

	2000	2010	2019	2021	2022	2023
EU27_2020	1471	1528	1408	1388	1307	1248
China	1148	2555	3390	3718	3791	4033
United States	2273	2216	2213	2141	2175	2143
Asia*	1834	2371	2822	2868	2958	3010
Russian Federation	619	693	739	827	823	791
Africa	437	610	760	780	792	813
Middle East	361	624	796	815	840	875
World bunkers**	274	361	421	312	358	391
Rest of the World	1520	1777	1838	1848	1819	1830
World	9938	12735	14387	14697	14864	15135

TOTAL 2023 = 15 135 Mtoe



World Total Energy Supply by Region (Mtoe)



* non OECD and OECD Asia, excluding China

** International aviation and international navigation

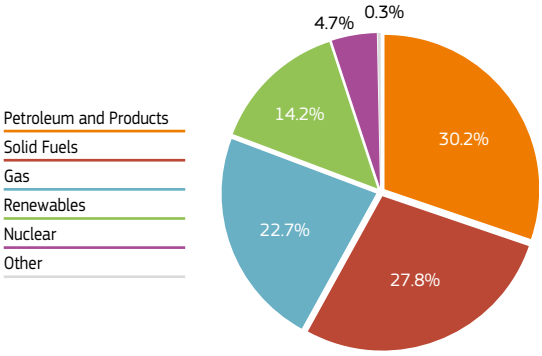
Source: IEA statistics, August 2025
Methodology and Notes: see appendices

1.1.4 World Total Energy Supply by Fuel

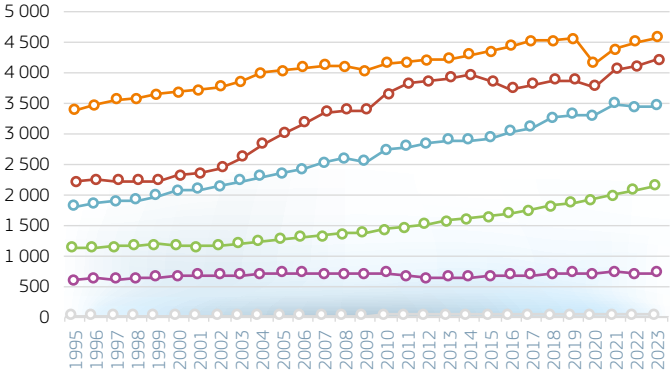
Mtoe

	2000	2010	2019	2021	2022	2023
Petroleum and Products	3682	4153	4553	4379	4493	4577
Solid Fuels	2313	3645	3865	4046	4102	4202
Gas	2069	2737	3313	3484	3437	3443
Renewables	1176	1448	1879	2005	2083	2150
*Hydro	225	297	367	370	374	366
*Geothermal	52	61	95	102	106	110
*Solar/Wind/Other	8	48	222	292	339	385
*Biofuels and Waste	912	1075	1242	1291	1313	1338
Nuclear	675	719	728	734	700	715
Other	23	34	48	50	49	49
Total	9938	12735	14387	14697	14864	15135

TOTAL 2023 = 15 135 Mtoe



World Gross Inland Consumption by Fuel (Mtoe)



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

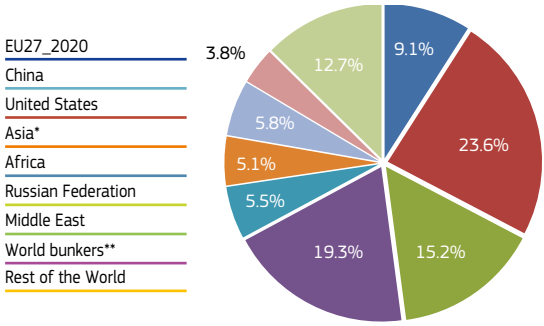
Source: IEA statistics, August 2025
Methodology and Notes: see appendices see appendices

1.1.5 World Total Final Consumption by Region

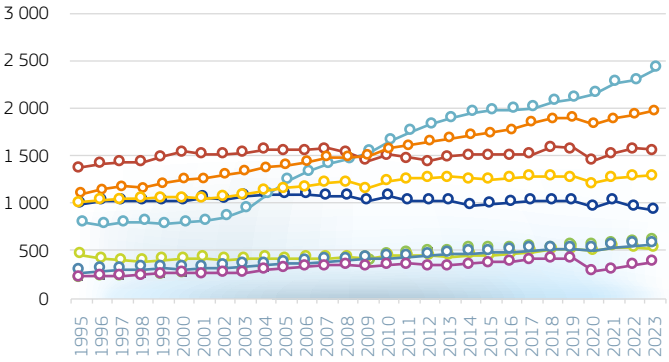
Mtoe

	2000	2010	2019	2021	2022	2023
EU27_2020	1027	1071	1019	1021	967	931
China	794	1656	2103	2270	2295	2417
United States	1546	1513	1577	1530	1580	1561
Asia*	1252	1576	1898	1893	1938	1973
Africa	307	421	516	539	555	564
Russian Federation	418	447	515	536	528	520
Middle East	248	437	551	555	576	594
World bunkers**	274	361	421	312	358	391
Rest of the World	1061	1238	1282	1270	1285	1297
World	6927	8720	9882	9926	10082	10249

TOTAL 2023 = 10249 Mtoe



World Total Final Consumption by Region (Mtoe)



* non OECD and OECD Asia, excluding China

** International aviation and international navigation

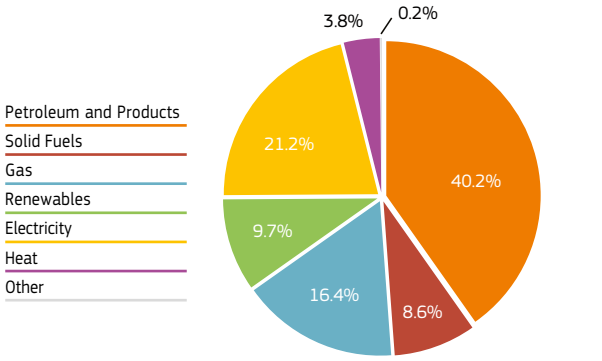
Source: IEA statistics, August 2025
Methodology and Notes: **see appendices**

1.1.6 World Total Final Consumption by Fuel

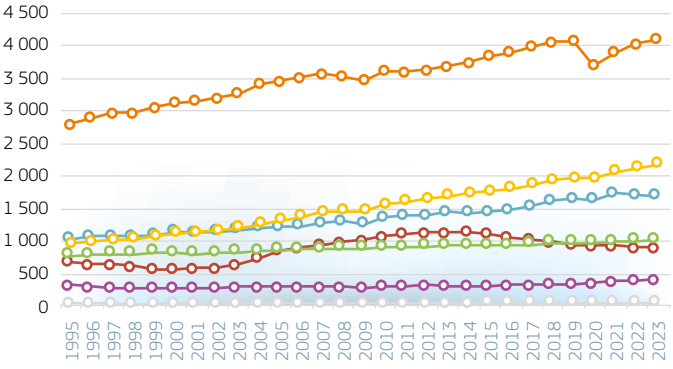
Mtoe

	2000	2010	2019	2021	2022	2023
Petroleum and Products	3128	3622	4096	3923	4048	4122
Solid Fuels	541	1046	922	898	874	882
Gas	1122	1349	1640	1717	1686	1680
Renewables	793	880	947	959	971	993
Electricity	1087	1538	1949	2058	2119	2171
Heat	249	276	313	354	369	385
Other	7	9	15	16	16	16
Total	6927	8720	9882	9926	10082	10249

TOTAL 2023 = 10249 Mtoe



World Total Final Consumption by Fuel (Mtoe)



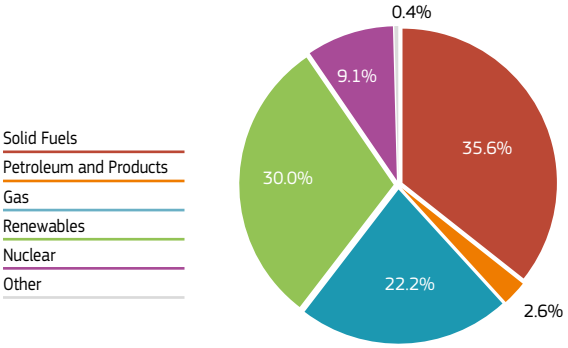
Source: IEA statistics, August 2025
Methodology and Notes: **see appendices**

1.1.7 World Electricity Generation by Fuel

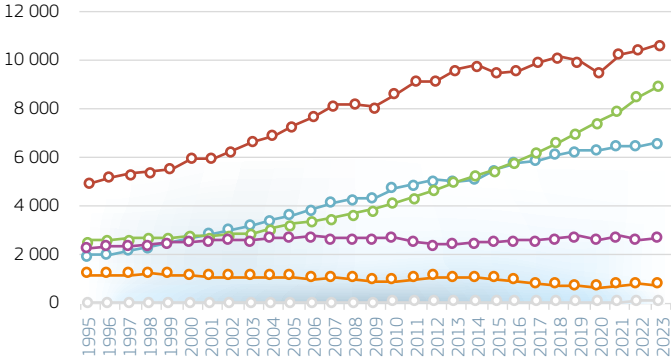
TWh

	2000	2010	2019	2021	2022	2023
Solid Fuels	5993	8682	9985	10316	10489	10687
Petroleum and Products	1187	968	756	788	807	778
Gas	2765	4820	6330	6525	6509	6648
Renewables	2835	4210	7073	7973	8572	9001
**Hydro*	2619	3456	4273	4301	4348	4252
**Solar/Wind/Other*	54	408	2168	2950	3476	3998
**Biofuels and Waste*	163	364	650	742	773	773
**Geothermal*	52	68	92	94	97	98
Nuclear	2591	2756	2790	2814	2683	2740
Other	54	88	115	118	126	124
Total	15425	21523	27049	28533	29186	29978

TOTAL 2023 = 29978 TWh



World Electricity Generation by Fuel (TWh)



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

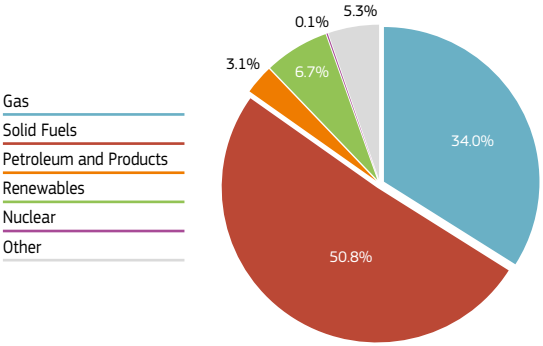
Source: IEA statistics, August 2025
Methodology and Notes: **see appendices**

1 1 8 World Heat Generation by Fuel

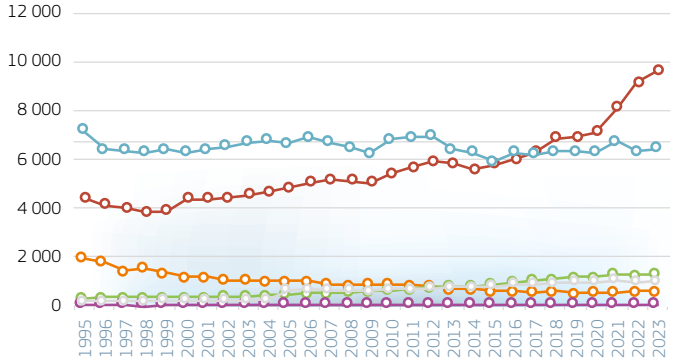
PJ

	2000	2010	2019	2021	2022	2023
Gas	6240	6776	6284	6700	6304	6417
Solid Fuels	4332	5359	6879	8093	9091	9605
Petroleum and Products	1160	845	508	544	567	578
Renewables	319	633	1146	1272	1255	1267
**Geothermal*	39	78	316	371	403	439
**Solar/Wind/Other*	17	363	457	502	475	506
**Biofuels and Waste*	417	778	1173	1298	1225	1202
Nuclear	19	27	26	26	24	23
Other	208	656	932	1009	952	999
Total	12278	14298	15775	17645	18192	18889

TOTAL 2023 = 18 889 PJ



World Heat Generation by Fuel (PJ)



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

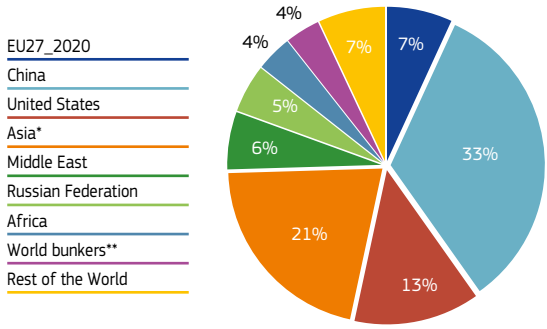
Source: IEA statistics, August 2025
Methodology and Notes: **see appendices**

1.1.9 World CO_2 Emissions by Region

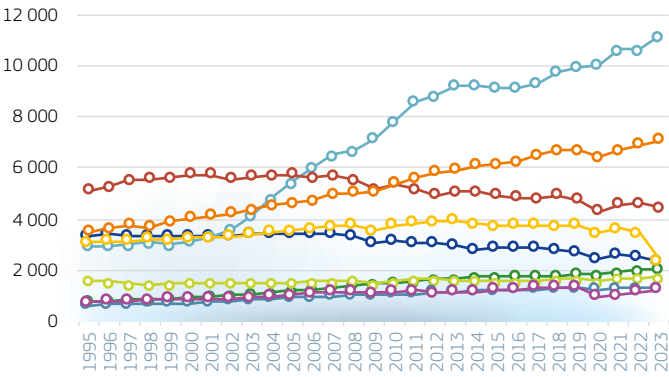
MT CO_2

	2000	2010	2019	2021	2022	2023
EU27_2020	3268	3137	2658	2573	2520	2297
China	3119	7845	9965	10618	10651	11161
United States	5730	5352	4745	4549	4608	4413
Asia*	3997	5341	6677	6651	6881	7080
Middle East	886	1482	1819	1878	1960	2018
Russian Federation	1474	1529	1592	1661	1657	1692
Africa	662	1025	1250	1270	1255	1262
World bunkers**	855	1127	1305	978	1114	1213
Rest of the World	3245	3714	3714	3597	3432	2344
World	23235	30552	32323	32776	33077	33478

TOTAL 2023 = 33478 Mt CO_2



World CO_2 Emissions by Region (Mt CO_2)



* non OECD and OECD Asia, excluding China

** International aviation and international navigation

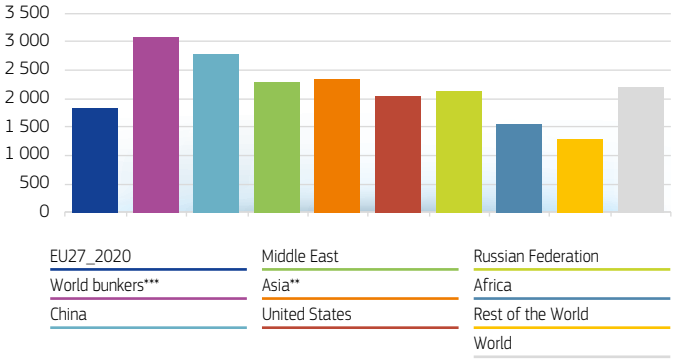
Source: IEA, May 2025, estimates of world CO_2 emissions from fuel combustion
Methodology and Notes: **see appendices**

1.1.10 World CO_2 Intensity by Region

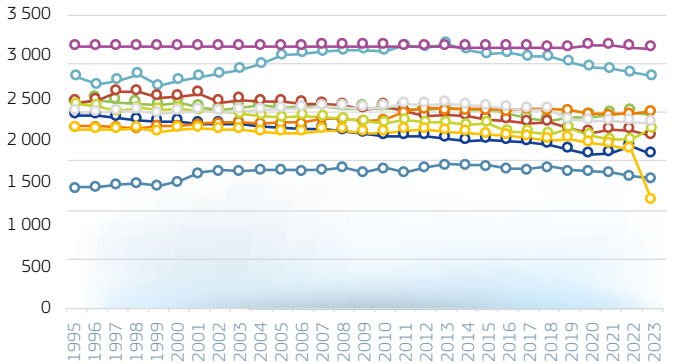
kg CO_2 per toe

	2000	2010	2019	2021	2022	2023
EU27_2020	2221	2054	1888	1854	1928	1840
World bunkers***	3120	3123	3102	3134	3112	3100
China	2717	3070	2940	2856	2809	2767
Middle East	2451	2375	2284	2303	2332	2307
Asia**	2179	2252	2366	2319	2326	2352
United States	2521	2415	2144	2125	2118	2059
Russian Federation	2380	2206	2153	2010	2012	2139
Africa	1516	1679	1645	1627	1584	1552
Rest of the World	2135	2090	2020	1947	1887	1280
World	2338	2399	2247	2230	2225	2212

WORLD AVERAGE 2023= 2212 kg CO_2 per toe



World CO_2 Intensity by Region (kg CO_2 per toe)



* CO_2 Emissions from Fuel Combustion per Unit of Total Energy Supply

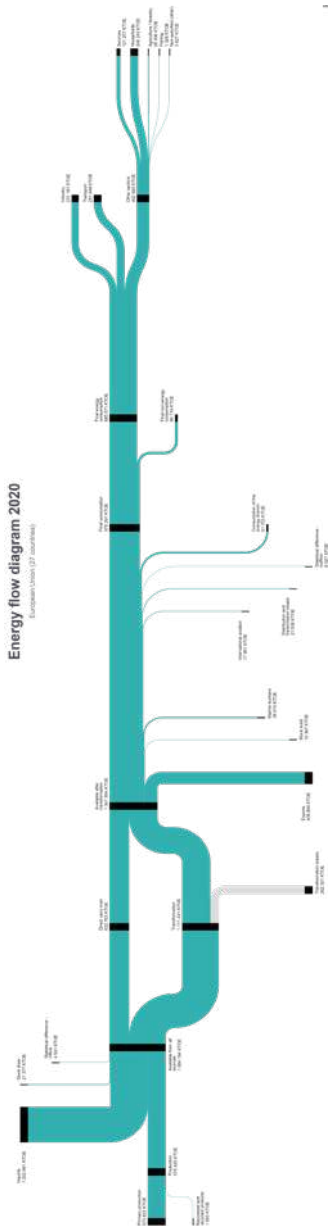
** non OECD and OECD Asia, excluding China and Middle East

*** International aviation and international navigation

Source: IEA statistics, August 2025
Methodology and Notes: **see appendices**

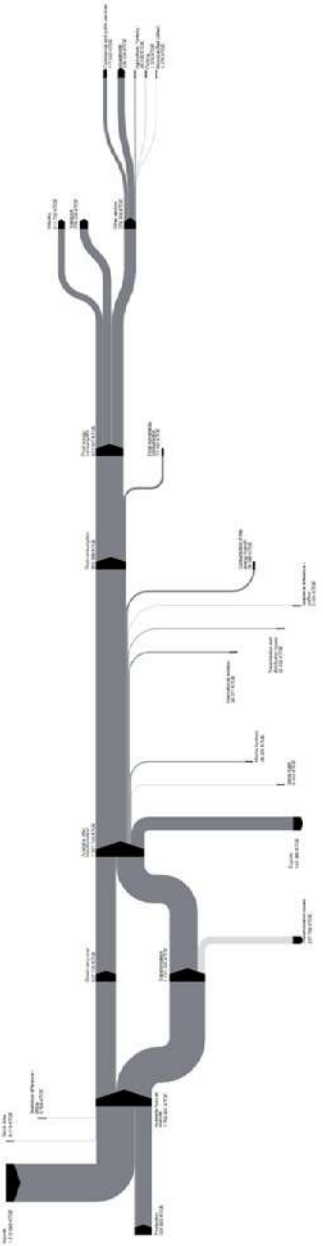
1.2 Energy in the EU (Overview)

1.2.1 Energy Flow - 2000



source: Eurostat April 2025
Methodology and Notes: **see appendices**

1.2.2 Energy Flow - 2023

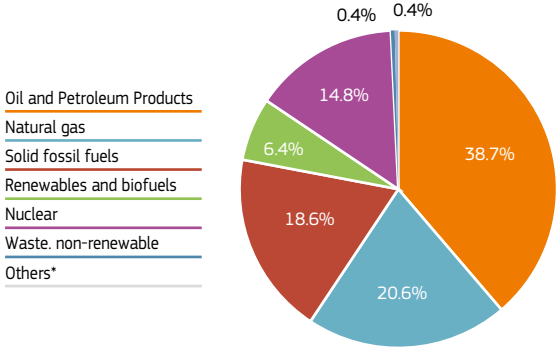


source: Eurostat April 2025
Methodology and Notes: **see appendices**

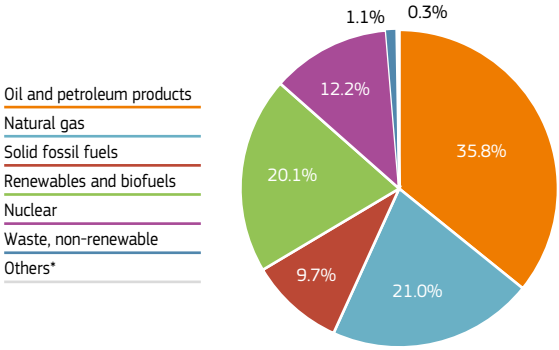
1.2.3 Gross Inland Consumption

Energy Mix (%) - Primary Products Only

Total Primary products 2000: 1 497.4 Mtoe
(Total Primary and secondary products 2000: 1 498.2 Mtoe)



TOTAL PRIMARY PRODUCTS 2023: 1 303.2 Mtoe
(Total Primary and secondary products 2023: 1 299.9 Mtoe)

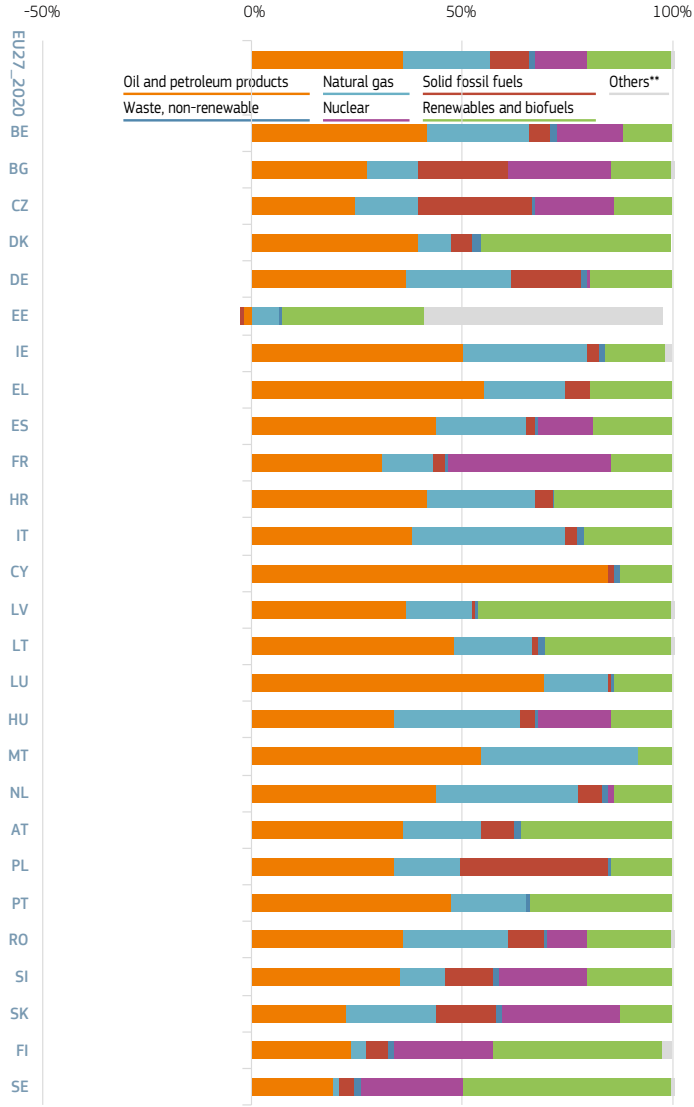


*Others = manufactured gases, peat and peat products, oil shale and oil sands

source: Eurostat April 2025
Methodology and Notes: **see appendices**

1.2.3 Gross Inland Consumption

ENERGY MIX* – 2023 (%)



*Primary Products Only

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

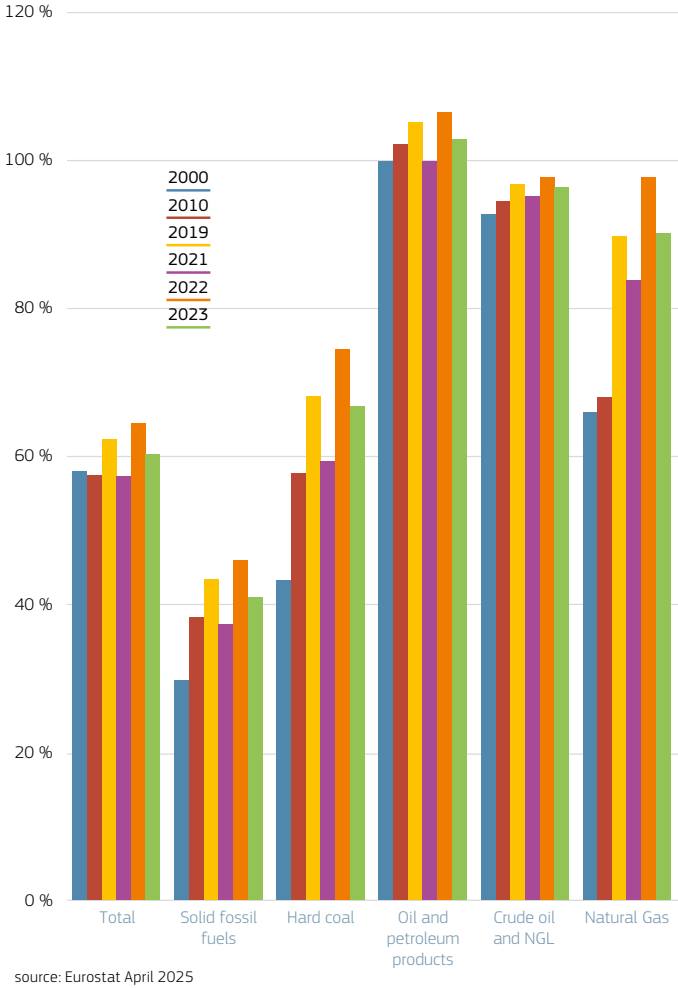
source: Eurostat April 2025
Methodology and Notes: **see appendices**

1.2.4 Energy Import Dependency

BY FUEL – (%)

	2000	2010	2019	2021	2022	2023
Total	57.8%	57.4%	62.3%	57.1%	64.5%	60.1%
Solid fossil fuels	29.8%	38.2%	43.3%	37.2%	45.9%	40.8%
of which Hard Coal	43.2%	57.7%	68.0%	59.2%	74.5%	66.7%
Oil and petroleum products	99.8%	102.1%	105.0%	99.7%	106.4%	102.7%
of which Crude and NGL	92.5%	94.4%	96.6%	95.1%	97.6%	96.3%
Natural Gas	65.7%	67.8%	89.7%	83.7%	97.6%	90.1%

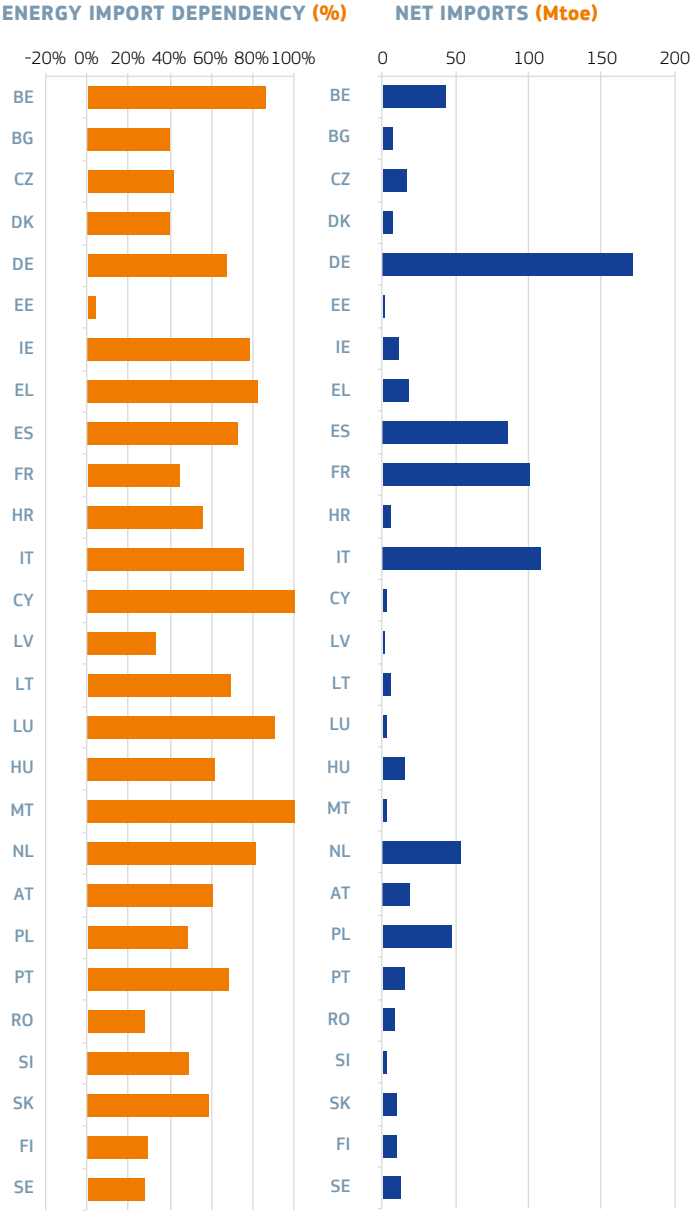
BY FUEL 2000 - 2023 [%]



source: Eurostat April 2025
Methodology and Notes: **see appendices**

1.2.5 Energy Import Dependency - Net Imports

2023

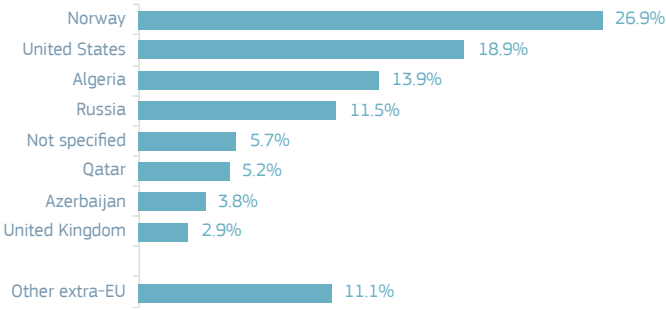


source: Eurostat April 2025
Methodology and Notes: see appendices

1.2.6 Imports by Country of Origin

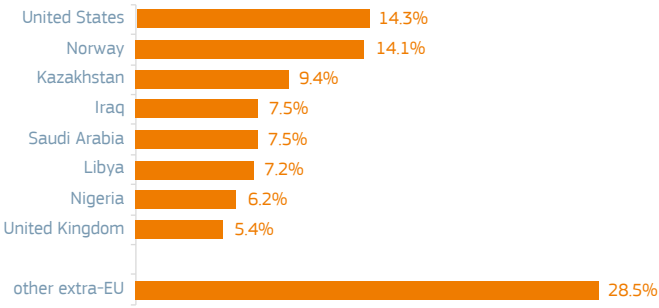
EU27_2020 Imports* of Natural Gas - 2023

Total extra-EU= 11553947.8 TJ-GCV (297.5 bn m^3)



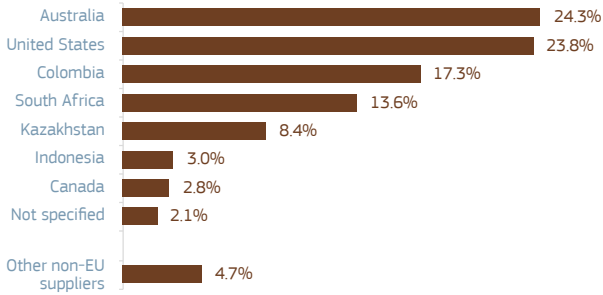
EU27_2020 Imports* of Crude Oil and NGL - 2023

Total extra-EU= 476744.6 kton



EU27_2020 Imports* of Hard coal - 2023

Total Extra-EU= 85068.6 kton



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

source: Eurostat April 2025
Methodology and Notes: **see appendices**

1.3 EU Targets

1.3.1 Renewable Energy Targets

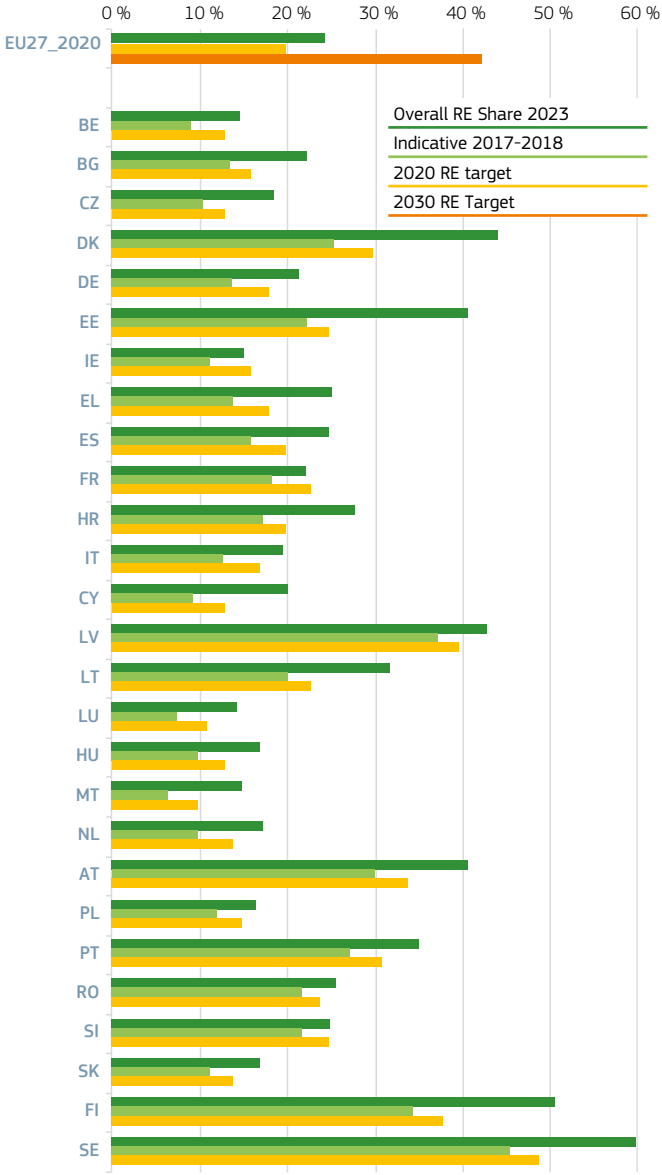
%	2023 Renewable energy shares						
	RE transport 2023	RE electricity 2023	RE Heating and cooling 2023	Overall RE Share 2023	" Indicative 2017-2018 "	2020 RE target	2030 RE Target
EU27_2020	10.8%	45.3%	26.2%	24.6%	n.a.	20%	43%
BE	12.1%	31.4%	11.3%	14.7%	9.2%	13.0%	
BG	8.1%	29.4%	34.9%	22.5%	13.7%	16.0%	
CZ	5.7%	16.4%	27.8%	18.6%	10.6%	13.0%	
DK	10.8%	79.4%	54.9%	44.4%	25.5%	30.0%	
DE	11.9%	52.3%	17.1%	21.6%	13.7%	18.0%	
EE	9.1%	31.8%	66.7%	41.0%	22.6%	25.0%	
IE	7.6%	40.4%	7.9%	15.3%	11.5%	16.0%	
EL	3.9%	48.2%	35.5%	25.3%	14.1%	18.0%	
ES	12.0%	56.9%	21.4%	24.9%	16.0%	20.0%	
FR	10.0%	30.0%	29.9%	22.3%	18.6%	23.0%	
HR	0.9%	58.8%	36.2%	28.1%	17.4%	20.0%	
IT	10.3%	38.1%	21.7%	19.6%	12.9%	17.0%	
CY	7.3%	20.9%	42.8%	20.2%	9.5%	13.0%	
LV	1.4%	54.3%	61.4%	43.2%	37.4%	40.0%	
LT	7.2%	36.5%	53.6%	31.9%	20.2%	23.0%	
LU	9.2%	18.0%	15.5%	14.4%	7.5%	11.0%	
HU	7.6%	19.5%	22.3%	17.1%	10.0%	13.0%	
MT	10.7%	10.7%	47.5%	15.1%	6.5%	10.0%	
NL	13.4%	46.4%	10.2%	17.4%	9.9%	14.0%	
AT	13.2%	87.8%	39.4%	40.8%	30.3%	34.0%	
PL	6.0%	25.8%	20.4%	16.6%	12.3%	15.0%	
PT	11.2%	63.0%	47.1%	35.2%	27.3%	31.0%	
RO	8.0%	47.4%	29.1%	25.8%	21.8%	24.0%	
SI	10.0%	41.9%	34.3%	25.1%	21.9%	25.0%	
SK	9.2%	24.2%	18.8%	17.0%	11.4%	14.0%	
FI	20.6%	52.4%	61.3%	50.7%	34.7%	38.0%	
SE	33.6%	87.5%	67.1%	66.4%	45.8%	49.0%	

* in % of the Gross Final Energy Consumption

source: Eurostat-RES SHARES March 2025
Methodology and Notes: see appendices

1.3.1 Renewable Energy Targets

Renewable Energy Shares and Targets* (%)

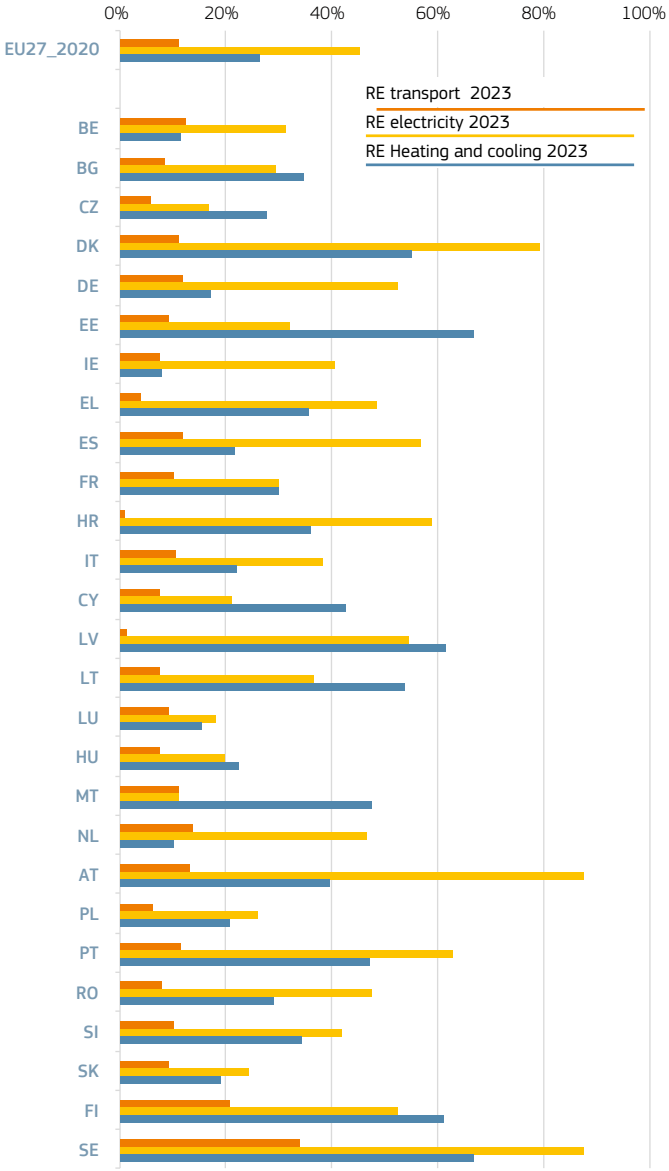


* in Gross Final Energy Consumption

source: Eurostat-RES SHARES March 2025
Methodology and Notes: **see appendices**

1.3.1 Renewable Energy Shares

RES Shares in Heating and Cooling, Electricity, and Transport 2023



* in Gross Final Energy Consumption

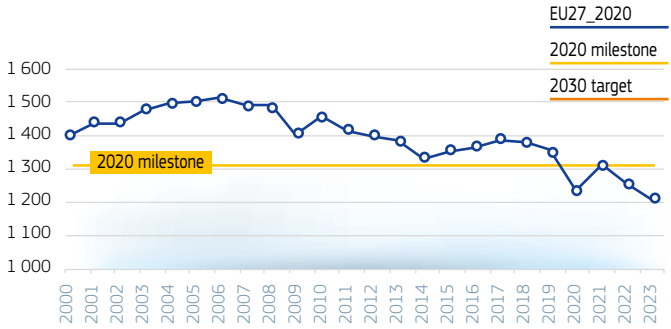
source: Eurostat-RES SHARES March 2025
Methodology and Notes: see appendices

1.3.2 Energy efficiency targets

Primary energy consumption 2020-2030 milestones and targets (Mtoe)

	2010	2019	2021	2022	2023	2020 MILESTONE & TARGET	2030 TARGET
EU27_2020	1 458.3	1 354.4	1 313.1	1 259.6	1 208.5	*1 312**	992.5
BE	53.4	48.4	48.7	45.2	42.1		
BG	17.4	18.0	18.6	18.9	16.6		
CZ	42.5	39.7	39.5	38.6	35.5		
DK	19.9	16.9	16.3	15.7	15.4		
DE	315.2	285.2	271.5	261.1	237.2		
EE	5.8	4.8	4.5	4.7	4.1		
IE	5.8	4.8	4.5	4.7	4.1		
EL	27.2	22.3	20.3	20.9	19.9		
ES	123.0	120.6	111.4	113.5	110.1		
FR	254.5	235.5	224.8	205.9	209.6		
HR	8.9	8.2	8.3	8.3	8.5		
IT	167.3	145.9	145.6	139.6	134.8		
CY	2.7	2.5	2.3	2.5	2.5		
LV	4.6	4.6	4.5	4.3	4.3		
LT	6.2	6.3	6.6	6.3	6.3		
LU	4.6	4.5	4.2	3.8	3.7		
HU	24.6	24.6	24.9	23.9	22.1		
MT	0.9	0.9	0.8	0.9	0.9		
NL	71.7	63.7	60.8	56.2	53.8		
AT	32.9	32.3	31.6	30.3	29.3		
PL	96.6	100.2	103.9	98.4	93.3		
PT	22.7	22.1	19.5	20.8	20.7		
RO	32.9	32.1	33.1	31.0	29.9		
SI	7.0	6.5	6.3	6.2	5.9		
SK	17.4	16.0	16.4	15.4	15.3		
FI	35.4	32.1	31.5	30.2	31.3		
SE	48.3	45.8	43.3	42.6	41.4		

EU27_2020: Primary energy consumption 2020-2030 (Mtoe)



*milestone for EU27_2020, based on the target for EU28

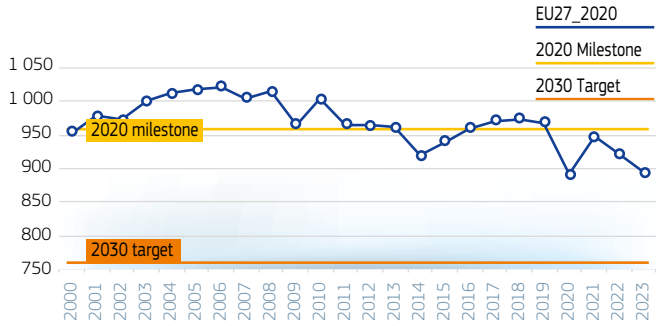
source: Eurostat April 2025
Methodology and Notes: see appendices

1.3.2 Energy efficiency targets

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

	2010	2019	2021	2022	2023	2020 MILESTONE & TARGET	2030 TARGET
EU27_2020	1 003.6	968.7	947.7	921.5	893.7	*959**	763
BE	36.8	34.0	34.4	31.9	31.3		
BG	8.8	9.9	10.2	9.9	9.6		
CZ	24.4	24.4	25.2	24.0	22.6		
DK	15.5	14.3	13.8	13.3	13.4		
DE	217.4	209.3	202.1	196.9	187.0		
EE	2.9	2.9	2.8	2.8	2.6		
IE	2.9	2.9	2.8	2.8	2.6		
EL	19.1	16.2	15.2	16.1	15.7		
ES	88.6	86.2	80.0	81.1	80.6		
FR	150.4	143.4	139.2	135.2	129.7		
HR	7.2	6.9	7.0	6.9	7.1		
IT	126.2	114.6	113.8	110.9	108.7		
CY	1.9	1.9	1.7	1.8	1.9		
LV	4.1	4.1	4.1	3.9	3.9		
LT	4.8	5.6	5.7	5.4	5.3		
LU	4.3	4.4	4.1	3.7	3.5		
HU	17.1	18.2	18.9	18.1	16.8		
MT	0.5	0.7	0.6	0.7	0.7		
NL	54.1	47.8	45.3	42.1	41.0		
AT	26.5	26.8	26.4	25.1	24.2		
PL	65.7	72.7	74.3	71.3	69.6		
PT	18.1	17.1	15.7	16.7	17.2		
RO	22.2	23.9	25.4	24.0	23.3		
SI	5.1	4.9	4.7	4.7	4.5		
SK	11.1	10.2	10.5	9.9	9.1		
FI	25.6	25.1	24.4	22.9	22.2		
SE	33.2	30.8	31.0	30.2	30.3		

EU27_2020: Final energy consumption 2020-2030 (Mtoe)



*milestone for EU27_2020, based on the target for EU28

source: Eurostat April 2025
Methodology and Notes: see appendices

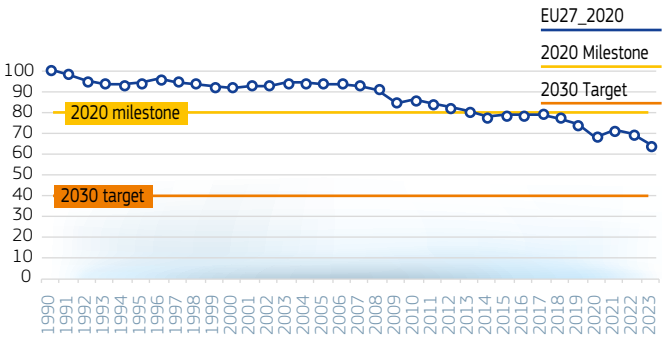
1.3.3 Greenhouse gas (GHG) Emissions Milestones and Targets

GHG EMISSIONS MILESTONES AND TARGETS

INDEX 100=1990

	1990	2000	2010	2019	2022	2023	2020 GHG MILE-STONE & TARGET	2030 GHG TARGET
EU27_2020	100	91.4	85.7	73.6	69.3	63.7	*80**	40
BE	100	101.9	91.5	79.9	70.7	67.4		
BG	100	58.1	60.0	54.5	59.0	45.8		
CZ	100	76.4	71.2	61.9	58.6	52.2		
DK	100	100.9	90.6	63.6	59.0	54.2		
DE	100	83.2	74.3	63.7	59.8	53.7		
EE	100	43.3	52.4	36.0	35.1	27.0		
IE	100	123.5	110.9	107.2	105.8	98.6		
EL	100	121.8	114.7	83.0	74.8	69.2		
ES	100	133.2	123.4	107.8	102.0	94.2		
FR	100	100.8	93.8	79.8	73.8	68.9		
HR	100	81.8	89.6	78.6	77.7	80.6		
IT	100	107.5	100.0	79.8	79.0	73.6		
CY	100	148.7	169.1	151.0	149.5	152.4		
LV	100	39.1	45.6	42.7	38.8	38.3		
LT	100	39.8	42.6	41.5	38.8	37.6		
LU	100	75.8	95.6	84.3	64.4	60.9		
HU	100	79.4	70.4	68.4	62.9	57.2		
MT	100	104.7	112.9	81.0	86.0	85.5		
NL	100	98.7	96.3	81.4	68.8	63.9		
AT	100	102.2	107.3	101.3	92.3	86.3		
PL	100	82.6	85.3	81.1	80.0	73.2		
PT	100	139.4	117.0	108.0	95.7	90.4		
RO	100	55.3	48.6	44.9	42.7	40.5		
SI	100	99.6	104.8	91.0	82.6	78.6		
SK	100	65.8	61.9	53.9	50.2	49.1		
FI	100	98.1	105.4	73.4	63.6	57.2		
SE	100	95.7	90.1	70.5	62.1	62.3		

EU27_2020: GHG emissions (index100=1990) 1990 - 2023



*milestone for EU27_2020, based on the target for EU28

Source: EEA, June 2025, Eurostat 2025
source: Eurostat April 2025

2 Energy in the EU

2 Energy in the EU

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2.1 Energy Supply

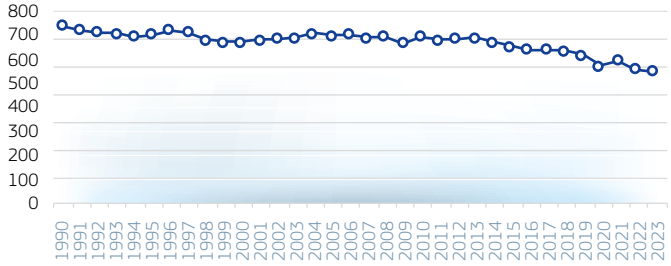
2.1.1 Production*

All Fuels

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	675.9	696.0	618.1	598.2	563.0	553.1
Index2000	100%	103%	91%	89%	83%	82%
BE	13.40	14.95	15.14	17.33	15.84	13.55
BG	9.86	10.45	11.69	12.14	13.15	10.48
CZ	30.81	31.86	26.60	24.37	25.28	23.17
DK	27.82	23.36	12.48	9.54	9.97	9.86
DE	135.24	131.67	105.28	103.63	97.19	83.16
EE	3.38	5.05	5.09	4.41	4.69	4.60
IE	2.16	1.83	4.17	3.04	3.14	2.99
EL	10.04	9.49	6.37	5.19	5.26	5.25
ES	31.32	34.55	34.67	35.59	35.96	37.43
FR	129.12	136.74	134.54	131.04	108.13	122.12
HR	4.26	5.17	3.90	3.96	3.70	3.82
IT	28.17	32.94	36.91	37.08	34.71	36.13
CY	0.04	0.09	0.21	0.24	0.26	0.27
LV	1.41	1.98	2.83	2.71	2.93	3.27
LT	3.49	1.56	2.04	2.24	2.05	2.17
LU	0.06	0.12	0.23	0.31	0.32	0.33
HU	11.61	11.71	10.79	10.65	10.62	10.62
MT	0.00	0.00	0.04	0.05	0.05	0.05
NL	58.45	71.12	33.16	26.55	24.30	20.72
AT	9.80	12.12	12.42	12.67	12.22	12.97
PL	78.63	66.83	62.14	60.08	59.16	54.21
PT	3.85	5.80	6.55	6.95	6.74	7.34
RO	28.53	27.37	24.53	22.97	22.23	22.00
SI	3.20	3.69	3.40	3.29	3.02	3.23
SK	6.28	6.73	6.93	6.95	6.76	7.23
FI	14.91	17.09	18.99	19.51	19.59	21.86
SE	30.01	31.76	37.00	35.68	35.69	34.30

Production - All Fuels - 1990-2023 - (Mtoe)

EU27_2020



* Primary production. recycled and recovered products

source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.1.1 Production*

By Fuel

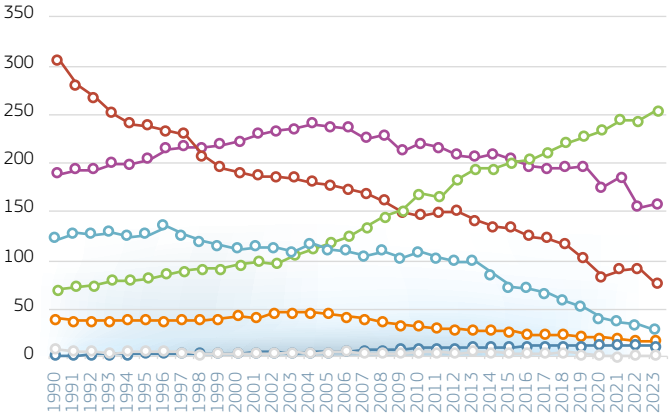
	2023						
Mtoe	Nuclear	Solid fossil fuels	Renewables and biofuels	Natural gas	Oil and petroleum products	Wastes, Non-Renewable	Peat, oil shale and oil sands
EU27_2020	158.0	75.5	254.3	29.4	18.8	13.3	3.1
Share (%)	28.6%	13.7%	46.0%	5.3%	3.4%	2.4%	0.6%
BE	7.93	0.00	4.82	0.01	0.00	0.57	0.00
BG	4.22	3.49	2.64	0.01	0.00	0.05	0.01
CZ	7.57	9.71	5.35	0.13	0.07	0.32	0.00
DK	0.00	0.00	5.33	1.16	3.00	0.36	0.00
DE	1.86	21.88	49.39	3.20	2.73	4.09	0.00
EE	0.00	0.00	1.91	0.00	0.00	0.04	2.66
IE	0.00	0.00	1.76	0.93	0.00	0.17	0.13
EL	0.00	1.31	3.88	0.00	0.05	0.01	0.00
ES	14.78	0.00	22.13	0.02	0.00	0.50	0.00
FR	88.14	0.00	31.50	0.02	0.79	1.67	0.00
HR	0.00	0.00	2.57	0.61	0.58	0.05	0.00
IT	0.00	0.00	27.19	2.22	5.55	1.18	0.00
CY	0.00	0.00	0.26	0.00	0.00	0.01	0.00
LV	0.00	0.00	3.25	0.00	0.00	0.02	0.00
LT	0.00	0.00	2.00	0.00	0.02	0.07	0.00
LU	0.00	0.00	0.30	0.00	0.00	0.03	0.00
HU	4.02	0.66	3.45	1.24	1.13	0.12	0.00
MT	0.00	0.00	0.05	0.00	0.00	0.00	0.00
NL	0.93	0.00	9.72	8.47	0.67	0.73	0.00
AT	0.00	0.00	11.35	0.47	0.47	0.67	0.00
PL	0.00	35.35	13.86	3.16	0.85	0.97	0.00
PT	0.00	0.00	7.19	0.00	0.00	0.15	0.00
RO	2.87	2.25	5.99	7.65	2.91	0.33	0.00
SI	1.32	0.70	1.15	0.00	0.00	0.06	0.00
SK	4.73	0.18	2.08	0.04	0.00	0.19	0.00
FI	8.02	0.00	13.10	0.00	0.00	0.29	0.32
SE	11.58	0.00	22.00	0.00	0.00	0.69	0.03

* Primary production. recycled and recovered products

source: Eurostat April 2025
Methodology and Notes: see appendices

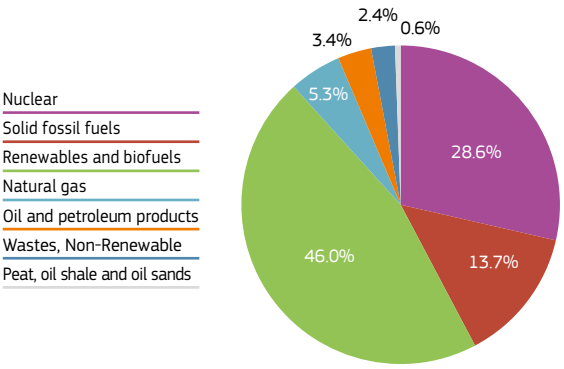
2.1.1 Production*

By Fuel – EU27_2020 – 1990-2023 (Mtoe)



Production* EU27_2020 in 2023 (% Total)

Total = 553.1 Mtoe



* Primary production. recycled and recovered products

source: Eurostat April 2025
Methodology and Notes: see appendices

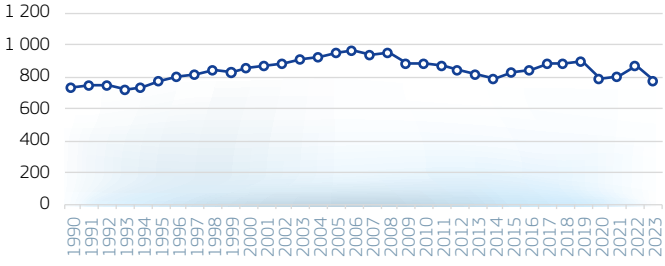
2.1.2 Net Imports

All Fuels

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	865.96	895.48	908.14	811.97	873.24	781.50
Index2000	100%	103%	105%	94%	101%	90%
BE	50.63	53.70	49.95	45.65	44.38	42.63
BG	8.68	7.23	7.21	7.01	7.29	6.87
CZ	9.37	11.54	17.52	17.07	17.48	16.02
DK	-7.47	-3.41	7.04	5.61	7.23	6.45
DE	204.85	204.59	207.54	188.76	194.78	171.90
EE	1.64	0.90	0.24	0.07	0.32	0.16
IE	12.41	13.30	10.38	11.13	11.71	11.31
EL	21.75	21.30	19.32	17.22	18.92	17.36
ES	99.86	106.68	100.56	87.01	95.35	85.34
FR	132.66	132.38	120.39	107.22	114.83	101.05
HR	4.10	4.43	4.95	4.75	5.14	4.94
IT	152.44	148.48	122.49	114.85	119.17	108.05
CY	2.58	2.96	2.69	2.38	2.63	2.62
LV	2.36	2.22	2.17	1.84	1.71	1.45
LT	4.30	5.71	6.01	5.96	5.28	4.98
LU	3.64	4.51	4.32	3.90	3.49	3.34
HU	13.87	15.14	18.62	14.82	16.55	15.09
MT	1.47	2.36	3.08	2.66	3.01	3.12
NL	34.99	28.28	56.35	50.09	63.23	53.55
AT	19.17	21.88	24.91	17.74	24.20	19.30
PL	9.60	32.14	48.11	44.49	48.30	47.30
PT	22.21	18.69	18.36	14.86	16.60	15.16
RO	8.04	7.49	10.07	10.86	10.27	8.58
SI	3.40	3.58	3.60	3.22	3.44	3.00
SK	11.54	11.41	11.88	9.36	11.57	9.60
FI	18.55	18.08	14.82	12.90	13.43	9.93
SE	19.29	19.91	15.56	10.55	12.92	12.39

NET IMPORTS – All Fuels – 1990-2023 (Mtoe)

EU27_2020



source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.1.2 Net Imports

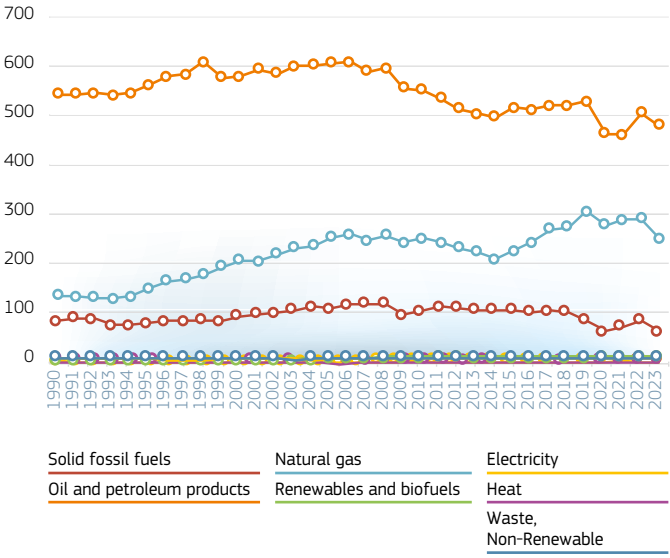
By Fuel

	2023					
Mtoe	Net Imports	Solid fossil fuels	Oil and petroleum products	Natural gas	Renewables and biofuels	Electricity
EU27_2020	781.5	51.2	477.8	245.7	6.2	0.0
Share (%)	100%	6.6%	61.1%	31.4%	0.8%	0.0%
BE	42.63	2.37	27.07	12.32	0.67	0.14
BG	6.87	0.19	4.93	2.17	-0.13	-0.29
CZ	16.02	1.59	9.56	5.76	-0.10	-0.79
DK	6.45	0.76	3.40	0.18	1.79	0.27
DE	171.90	20.85	90.44	60.00	-0.18	0.79
EE	0.16	0.00	0.11	0.27	-0.50	0.28
IE	11.31	0.38	7.21	3.21	0.24	0.28
EL	17.36	-0.11	13.11	3.88	0.06	0.42
ES	85.34	1.99	59.53	24.97	0.06	-1.20
FR	101.05	4.49	69.75	29.14	2.01	-4.34
HR	4.94	0.38	3.00	1.57	-0.15	0.14
IT	108.05	4.64	48.54	48.49	1.98	4.41
CY	2.62	0.01	2.52	0.00	0.06	0.00
LV	1.45	0.01	1.61	0.69	-0.96	0.07
LT	4.98	0.09	3.12	1.20	-0.03	0.60
LU	3.34	0.02	2.24	0.49	0.14	0.45
HU	15.09	0.22	6.98	6.96	-0.12	0.95
MT	3.12	0.00	2.74	0.32	0.01	0.05
NL	53.55	3.87	36.12	14.61	-0.65	-0.49
AT	19.30	2.45	10.95	5.99	-0.08	-0.01
PL	47.30	1.71	32.24	12.82	0.21	0.32
PT	15.16	0.00	10.62	3.72	-0.08	0.88
RO	8.58	0.34	7.86	0.33	0.30	-0.26
SI	3.00	0.20	2.18	0.66	0.10	-0.13
SK	9.60	2.17	3.92	3.81	-0.02	-0.29
FI	9.93	1.21	6.99	1.34	0.22	0.15
SE	12.39	1.40	11.09	0.77	1.37	-2.45

source: Eurostat April 2025
Methodology and Notes: see appendices

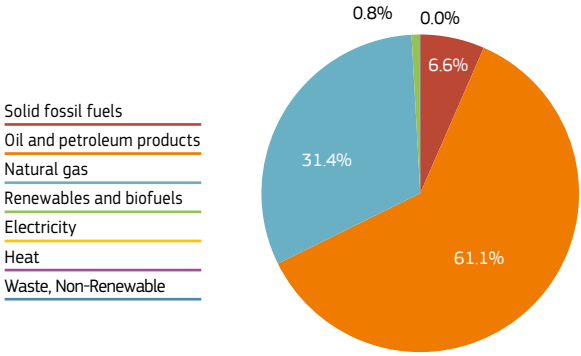
2.1.2 Net Imports

By Fuel – EU27_2020 – 1990-2023 (Mtoe)



By Fuel – EU27_2020: 2023

Total = 781.5 Mtoe



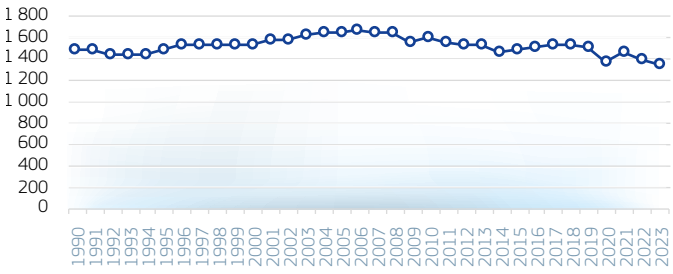
source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.1.3 Gross available energy

All Fuels

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	1538.54	1606.37	1501.77	1462.50	1396.68	1339.23
Index2000	100%	104%	98%	95%	91%	87%
BE	64.78	68.27	64.31	64.40	59.95	56.07
BG	18.70	18.01	18.75	19.37	19.63	17.30
CZ	41.29	45.47	42.93	42.73	41.85	38.44
DK	20.79	21.02	18.10	17.42	16.91	16.61
DE	344.63	341.02	309.51	297.75	283.79	257.21
EE	4.81	6.14	5.10	4.91	5.16	4.49
IE	14.53	15.21	15.13	14.45	14.78	14.52
EL	31.50	31.06	26.07	23.32	23.78	22.96
ES	130.04	138.54	134.02	125.36	128.23	124.73
FR	258.73	272.00	253.56	243.04	221.40	225.19
HR	8.49	9.48	8.81	8.72	8.53	8.87
IT	176.19	179.82	158.09	156.58	150.53	144.44
CY	2.61	2.95	2.90	2.66	2.86	2.84
LV	3.87	4.88	4.94	4.79	4.48	4.42
LT	7.44	7.22	8.00	8.14	7.29	7.32
LU	3.66	4.64	4.55	4.22	3.82	3.69
HU	25.23	26.59	26.71	27.38	25.78	24.30
MT	1.47	2.39	3.16	2.74	3.04	3.20
NL	91.43	100.01	87.64	85.70	78.82	76.02
AT	29.24	34.85	34.78	34.23	32.61	31.62
PL	89.50	101.82	106.35	109.94	104.73	98.49
PT	26.05	24.84	24.86	22.20	23.29	22.68
RO	36.76	35.02	33.24	34.32	31.67	30.79
SI	6.56	7.27	6.93	6.64	6.38	6.08
SK	17.73	18.43	17.02	17.79	16.63	16.44
FI	33.44	37.00	34.55	33.99	32.83	33.59
SE	49.07	52.42	51.77	49.72	47.92	46.95

Gross Available Energy – All Fuels – 1990-2023 (Mtoe)



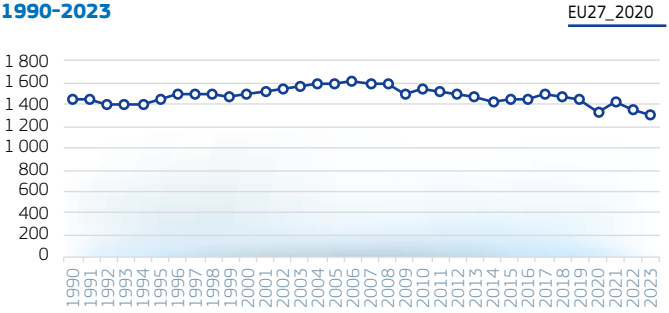
source: Eurostat April 2025
Methodology and Notes: see appendices

2.1.4 Gross inland consumption

All Fuels

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	1 498.16	1 559.67	1 458.64	1 421.69	1 354.60	1 299.93
Index2000	100%	104%	97%	95%	90%	87%
BE	59.44	60.67	56.11	56.82	52.30	49.14
BG	18.63	17.92	18.67	19.29	19.57	17.23
CZ	41.29	45.47	42.93	42.73	41.85	38.44
DK	19.50	20.33	17.36	16.94	16.38	16.06
DE	342.43	338.25	308.15	296.34	282.31	255.90
EE	4.71	5.92	4.92	4.61	4.85	4.25
IE	14.37	15.07	14.98	14.27	14.66	14.38
EL	27.90	28.35	23.55	21.51	21.83	20.94
ES	124.02	130.12	126.83	118.04	119.60	116.38
FR	255.91	269.71	251.84	241.92	220.21	224.13
HR	8.47	9.47	8.79	8.69	8.51	8.84
IT	174.54	176.84	155.43	154.06	148.06	142.16
CY	2.42	2.76	2.63	2.41	2.57	2.61
LV	3.86	4.63	4.65	4.58	4.37	4.38
LT	7.35	7.08	7.80	7.95	7.13	7.20
LU	3.66	4.64	4.55	4.22	3.82	3.69
HU	25.23	26.59	26.71	27.38	25.78	24.30
MT	0.81	0.94	0.90	0.80	0.92	0.94
NL	78.27	86.15	76.21	74.27	67.25	65.32
AT	29.22	34.83	34.77	34.21	32.60	31.61
PL	89.22	101.60	106.07	109.59	104.46	98.22
PT	25.38	24.38	23.91	21.54	22.59	22.09
RO	36.76	35.01	33.21	34.29	31.66	30.77
SI	6.56	7.25	6.74	6.55	6.38	6.08
SK	17.73	18.43	17.02	17.79	16.63	16.44
FI	32.76	36.79	34.21	33.71	32.49	33.31
SE	47.71	50.46	49.70	47.16	45.83	45.11

Gross Inland Consumption – All Fuels – 1990-2023



source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.1.4 Gross inland consumption

By Fuel

Mtoe	2023							
	Oil and petroleum products	Natural gas	Solid fossil fuels	Renewables and biofuels	Nuclear	Waste, non-renewable	Electricity	Others*
EU27_2020	472.8	294.2	162.0	249.2	155.5	14.3	1.1	4.2
Share - %	34.9%	21.7%	12.0%	18.4%	11.5%	1.1%	0.1%	0.3%
BE	20.3	13.0	2.7	5.3	10.7	0.6	-0.6	0.0
BG	4.8	2.3	6.3	2.7	4.3	0.1	-1.0	0.0
CZ	9.7	6.3	13.4	5.5	7.7	0.4	-1.2	0.0
DK	6.6	1.4	1.1	7.0	0.0	0.4	0.1	0.0
DE	100.1	66.8	55.5	49.2	8.9	4.1	-2.3	0.0
EE	0.2	0.3	0.0	1.3	0.0	0.0	0.1	2.9
IE	7.1	4.5	0.7	1.8	0.0	0.1	0.0	0.3
EL	11.9	4.4	1.6	3.7	0.0	0.0	0.3	0.0
ES	53.8	28.3	3.6	19.6	15.3	0.5	-1.7	0.0
FR	69.2	33.2	7.5	30.1	76.8	1.8	1.3	0.0
HR	3.3	2.1	0.4	2.2	0.0	0.0	0.4	0.0
IT	51.5	56.1	7.4	28.2	0.0	1.2	3.7	0.0
CY	2.2	0.0	0.0	0.3	0.0	0.0	0.0	0.0
LV	1.5	0.7	0.0	1.9	0.0	0.1	0.2	0.0
LT	3.0	1.3	0.2	1.8	0.0	0.1	0.7	0.0
LU	2.3	0.5	0.0	0.4	0.0	0.0	0.5	0.0
HU	8.1	7.9	1.2	3.3	4.0	0.2	1.0	0.0
MT	0.5	0.3	0.0	0.1	0.0	0.0	0.1	0.0
NL	28.1	23.4	5.5	8.5	1.0	0.8	-0.4	0.0
AT	11.4	6.9	2.4	10.3	0.0	0.7	0.7	0.0
PL	32.9	15.0	42.1	13.6	0.0	1.0	-0.1	0.0
PT	10.3	4.8	0.0	6.5	0.0	0.2	0.8	0.0
RO	10.5	8.4	3.5	6.0	2.8	0.3	0.1	0.0
SI	2.4	0.7	0.7	1.0	1.3	0.1	0.1	0.0
SK	3.8	3.8	2.4	2.1	4.1	0.2	0.1	0.0
FI	7.8	1.1	2.2	12.9	6.1	0.3	1.1	0.9
SE	9.3	0.6	1.5	23.8	12.4	1.0	-2.9	0.0

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

source: Eurostat April 2025
Methodology and Notes: see appendices

2.1.4 Gross Inland Consumption

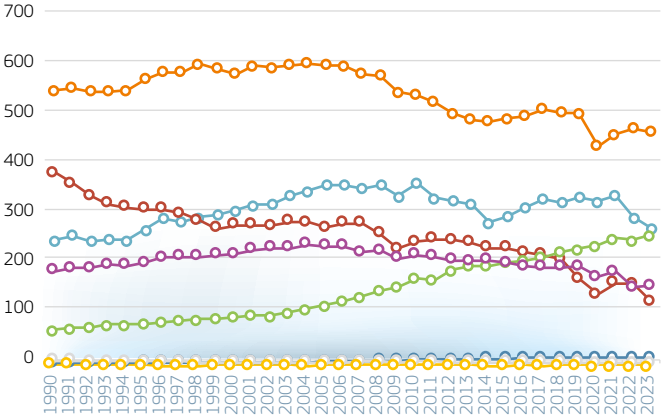
Renewables and Biofuels

	2023								
Mtoe	Renewables and biofuels	Hydro	Wind	Solar photovoltaic	Solar thermal	Tide, Wave and Ocean	Biofuels and renewable waste	Geothermal	Ambient heat (heat pumps)
EU27_2020	260.6	28.4	41.1	21.2	4.1	0.0	140.7	6.6	18.5
Share (%)	100.0%	10.9%	15.8%	8.1%	1.6%	0.0%	54.0%	2.5%	7.1%
BE	5.49	0.03	1.33	0.67	0.03	0.00	3.14	0.00	0.29
BG	2.52	0.26	0.14	0.30	0.03	0.00	1.57	0.04	0.17
CZ	5.24	0.20	0.06	0.25	0.02	0.00	4.24	0.00	0.46
DK	7.14	0.00	1.67	0.29	0.08	0.00	4.58	0.00	0.52
DE	49.22	1.71	12.08	5.47	0.78	0.00	26.72	0.40	2.05
EE	1.40	0.00	0.06	0.06	0.00	0.00	1.28	0.00	0.00
IE	2.00	0.08	1.02	0.06	0.01	0.00	0.73	0.00	0.10
EL	3.95	0.33	0.95	0.76	0.34	0.00	1.10	0.01	0.46
ES	22.45	2.15	5.53	3.73	1.70	0.00	7.99	0.00	1.35
FR	33.54	4.87	4.34	1.88	0.24	0.04	17.41	0.46	4.30
HR	2.42	0.70	0.22	0.04	0.02	0.00	1.42	0.01	0.01
IT	29.21	3.48	2.03	2.64	0.28	0.00	12.87	5.05	2.85
CY	0.32	0.00	0.02	0.07	0.08	0.00	0.10	0.00	0.05
LV	1.97	0.33	0.02	0.02	0.00	0.00	1.60	0.00	0.00
LT	1.97	0.04	0.22	0.06	0.00	0.00	1.55	0.00	0.11
LU	0.44	0.01	0.04	0.03	0.00	0.00	0.36	0.00	0.01
HU	3.33	0.02	0.06	0.60	0.02	0.00	2.38	0.18	0.08
MT	0.07	0.00	0.00	0.03	0.00	0.00	0.02	0.00	0.02
NL	9.06	0.01	2.54	1.68	0.03	0.00	4.04	0.16	0.61
AT	11.28	3.50	0.69	0.55	0.17	0.00	5.77	0.04	0.56
PL	14.07	0.21	2.08	0.96	0.08	0.00	10.10	0.03	0.62
PT	7.11	1.04	1.13	0.44	0.11	0.00	3.32	0.19	0.88
RO	6.28	1.56	0.65	0.19	0.00	0.00	3.74	0.03	0.12
SI	1.25	0.43	0.00	0.08	0.01	0.00	0.65	0.01	0.06
SK	2.06	0.40	0.00	0.05	0.01	0.00	1.47	0.01	0.11
FI	13.31	1.31	1.29	0.06	0.00	0.00	9.80	0.00	0.85
SE	23.57	5.69	2.94	0.27	0.01	0.00	12.80	0.00	1.85

source: Eurostat April 2025
Methodology and Notes: **see appendices**

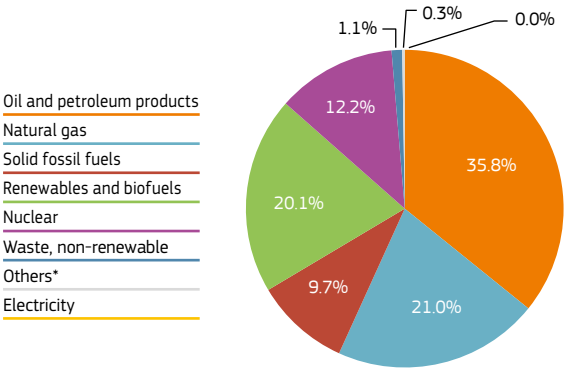
2.1.4 Gross Inland Consumption

By Fuel – EU27_2020 – 1990-2023 (Mtoe)



Gross Inland Consumption – By Fuel – EU27_2020 – 2023 (% TOTAL)

Total = 1 299.9 Mtoe



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

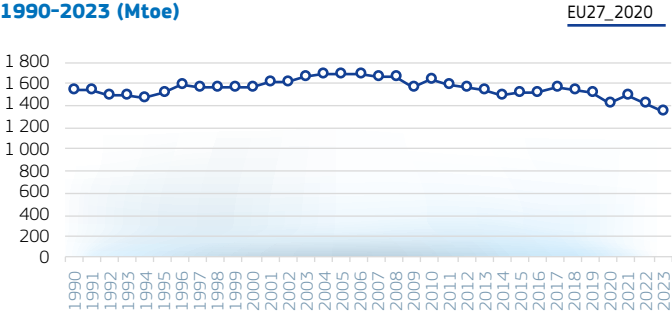
source: Eurostat April 2025
Methodology and Notes: see appendices

2.1.5 Total energy supply

All Fuels

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	1 469.58	1 527.55	1 416.85	1 399.85	1 319.88	1 261.56
Index2000	100%	104%	96%	95%	90%	86%
BE	57.93	59.30	54.41	55.31	50.55	47.39
BG	18.55	17.75	18.43	19.12	19.35	17.00
CZ	41.13	45.15	42.51	42.57	41.58	38.10
DK	18.71	19.52	16.32	16.52	15.64	15.22
DE	335.81	330.30	298.40	290.33	273.37	246.58
EE	4.69	5.89	4.85	4.56	4.80	4.21
IE	13.77	14.33	13.87	13.83	13.65	13.24
EL	27.06	27.66	22.42	20.81	20.67	19.73
ES	121.24	127.00	121.94	116.19	115.93	112.10
FR	250.70	264.20	245.63	239.06	215.30	218.73
HR	8.40	9.37	8.59	8.60	8.32	8.64
IT	171.71	173.68	151.46	152.43	145.22	138.56
CY	2.14	2.48	2.32	2.25	2.31	2.31
LV	3.84	4.51	4.49	4.50	4.26	4.25
LT	7.33	7.03	7.68	7.89	7.03	7.09
LU	3.34	4.21	3.95	3.60	3.17	3.09
HU	24.99	26.36	26.43	27.25	25.52	24.00
MT	0.68	0.84	0.74	0.72	0.79	0.79
NL	74.97	82.74	72.24	71.84	64.07	61.92
AT	28.67	34.17	33.81	33.81	31.99	30.74
PL	88.94	101.10	105.00	109.02	103.48	97.04
PT	24.71	23.51	22.45	20.88	21.20	20.49
RO	36.63	34.84	33.05	34.21	31.56	30.68
SI	6.54	7.23	6.72	6.54	6.36	6.06
SK	17.70	18.39	16.97	17.77	16.59	16.41
FI	32.42	36.25	33.37	33.43	31.96	32.68
SE	46.99	49.75	48.81	46.80	45.20	44.52

Total Energy Supply – All Fuels – 1990-2023 (Mtoe)



source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.2 Imports

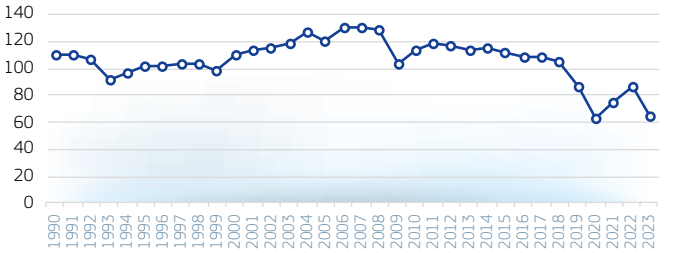
2.2.1 Imports – Solid fossil fuels

Total

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	110.2	114.0	87.0	75.1	87.7	65.5
Index2000	100%	103%	79%	68%	80%	59%
BE	8.43	4.39	3.19	2.47	2.80	2.50
BG	2.38	1.75	0.40	0.55	0.80	0.37
CZ	1.04	2.36	2.90	3.48	3.43	2.83
DK	3.86	2.68	1.44	0.47	1.13	0.77
DE	22.22	32.59	28.18	27.45	29.84	22.27
EE	0.07	0.05	0.03	0.00	0.00	0.00
IE	1.69	0.96	0.26	0.97	0.92	0.38
EL	0.81	0.40	0.20	0.16	0.05	0.03
ES	13.35	7.85	5.53	3.70	6.11	4.20
FR	13.38	12.25	7.30	6.23	6.09	4.49
HR	0.48	0.70	0.45	0.42	0.41	0.38
IT	13.23	14.00	6.59	5.56	7.83	4.81
CY	0.03	0.01	0.02	0.04	0.05	0.01
LV	0.06	0.11	0.05	0.02	0.03	0.01
LT	0.08	0.19	0.18	0.15	0.20	0.09
LU	0.11	0.07	0.04	0.03	0.04	0.02
HU	1.21	1.41	1.07	0.87	0.63	0.31
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	8.13	7.76	6.62	5.61	5.75	4.20
AT	3.07	3.37	2.82	2.58	2.51	2.48
PL	1.02	8.27	10.07	7.53	11.39	9.77
PT	3.97	1.63	1.52	0.01	0.01	0.00
RO	1.92	1.22	1.08	0.96	0.74	0.38
SI	0.25	0.28	0.21	0.10	0.21	0.20
SK	3.47	3.22	2.60	2.53	2.37	2.22
FI	3.56	3.99	2.25	1.62	2.77	1.31
SE	2.36	2.46	1.95	1.58	1.58	1.42

Imports – Solid Fossil Fuels – Total – 1990-2023 (Mtoe)

EU27_2020



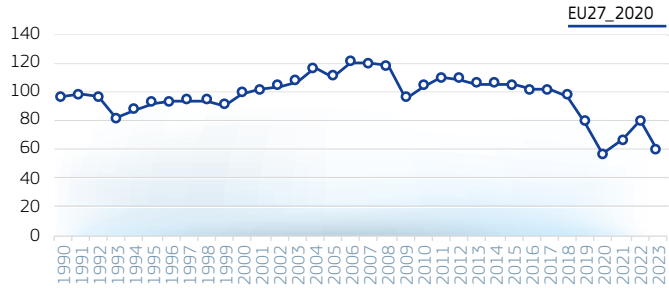
source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.1 Imports – Solid fossil fuels

hard coal

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	99.3	104.1	79.8	67.9	80.6	59.4
Index2000	100%	105%	80%	68%	81%	60%
BE	7.46	4.09	2.58	2.03	2.21	1.89
BG	2.25	1.70	0.36	0.52	0.75	0.26
CZ	0.63	1.41	2.41	2.92	2.94	2.37
DK	3.82	2.67	1.43	0.46	1.13	0.76
DE	17.39	29.33	26.80	25.79	28.11	20.40
EE	0.06	0.05	0.03	0.00	0.00	0.00
IE	1.68	0.95	0.25	0.96	0.92	0.37
EL	0.81	0.40	0.20	0.16	0.05	0.03
ES	13.25	7.71	4.99	3.18	5.81	4.03
FR	12.33	11.30	6.83	5.18	5.23	4.00
HR	0.44	0.64	0.42	0.40	0.39	0.36
IT	12.87	13.81	6.19	5.12	7.61	4.62
CY	0.03	0.01	0.02	0.04	0.05	0.00
LV	0.05	0.11	0.05	0.02	0.03	0.01
LT	0.01	0.11	0.17	0.14	0.18	0.07
LU	0.10	0.06	0.04	0.03	0.04	0.02
HU	0.88	1.28	0.97	0.81	0.54	0.26
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	7.74	7.52	6.55	5.55	5.71	4.17
AT	2.32	2.45	2.13	1.92	1.77	1.77
PL	1.01	8.16	9.86	7.35	11.20	9.62
PT	3.97	1.63	1.52	0.00	0.00	0.00
RO	1.65	0.14	0.10	0.08	0.03	0.02
SI	0.01	0.02	0.01	0.00	0.00	0.00
SK	3.15	2.57	2.25	2.31	2.04	1.93
FI	3.21	3.68	2.03	1.45	2.54	1.13
SE	2.14	2.29	1.64	1.47	1.31	1.36

Imports – Hard Coal – 1990-2023 (Mtoe)



source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.2.1 Imports – Solid fossil fuels

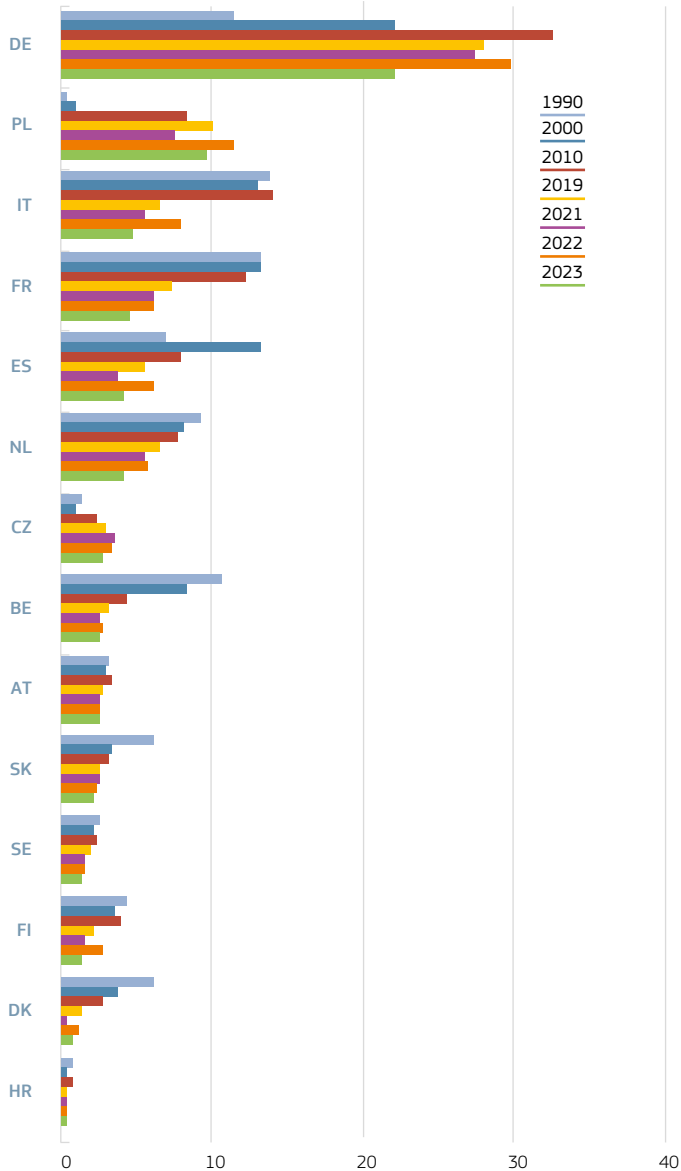
Ranking

Mtoe and %	2000			2023		
Top 10 Ranking	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Solid fossil fuels						
1	DE	22.2	20.2%	DE	22.3	34.0%
2	FR	13.4	12.2%	PL	9.8	14.9%
3	ES	13.3	12.1%	IT	4.8	7.4%
4	IT	13.2	12.0%	FR	4.5	6.9%
5	BE	8.4	7.7%	ES	4.2	6.4%
6	NL	8.1	7.4%	NL	4.2	6.4%
7	PT	4.0	3.6%	CZ	2.8	4.3%
8	DK	3.9	3.5%	BE	2.5	3.8%
9	FI	3.6	3.2%	AT	2.5	3.8%
10	SK	3.5	3.1%	SK	2.2	3.4%
Top 5 Total		70.6	64.1%		45.5	69.6%
Total EU27_2020		110.2	100.0%		65.5	100.0%
Of Which: hard coal						
1	DE	17.4	17.5%	DE	20.4	34.3%
2	ES	13.3	13.4%	PL	9.6	16.2%
3	IT	12.9	13.0%	IT	4.6	7.8%
4	FR	12.3	12.4%	NL	4.2	7.0%
5	NL	7.7	7.8%	ES	4.0	6.8%
6	BE	7.5	7.5%	FR	4.0	6.7%
7	PT	4.0	4.0%	CZ	2.4	4.0%
8	DK	3.8	3.9%	SK	1.9	3.3%
9	FI	3.2	3.2%	BE	1.9	3.2%
10	SK	3.1	3.2%	AT	1.8	3.0%
Top 5 Total		63.6	64.1%		42.8	72.1%
Total EU27_2020		99.3	100.0%		59.4	100.0%

source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.1 Imports – Solid fossil fuels

By Member State – Top 14 importers
1990 - 2023

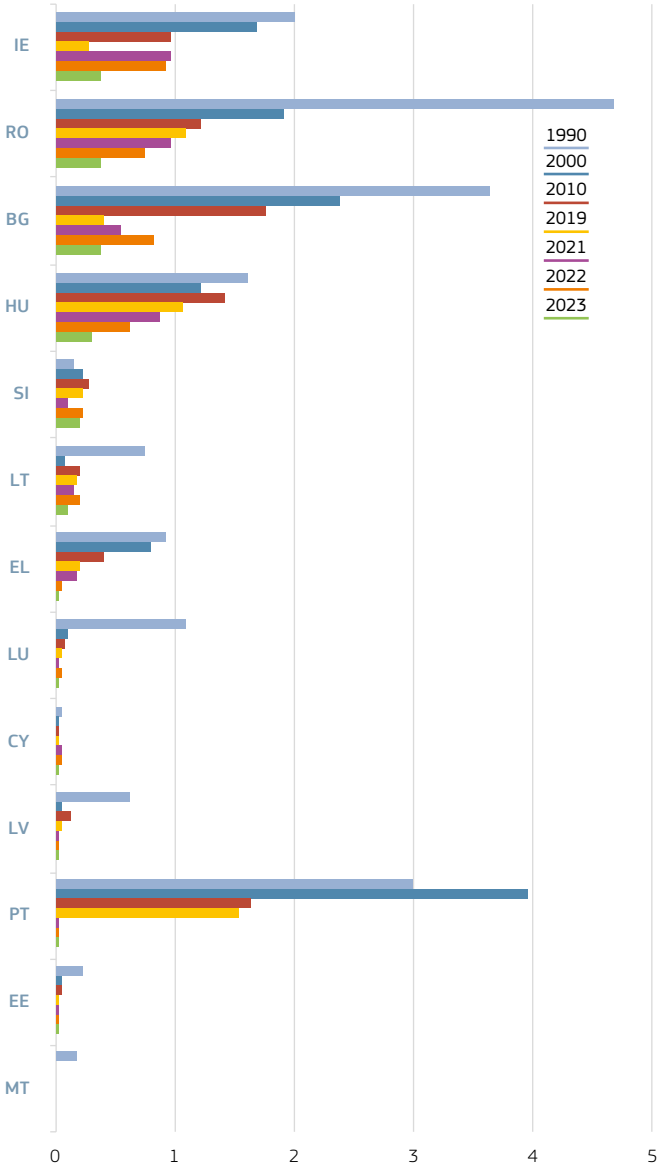


source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.1 Imports – Solid Fossil Fuels

By MEmber State – Least 13 importers

1990 - 2023



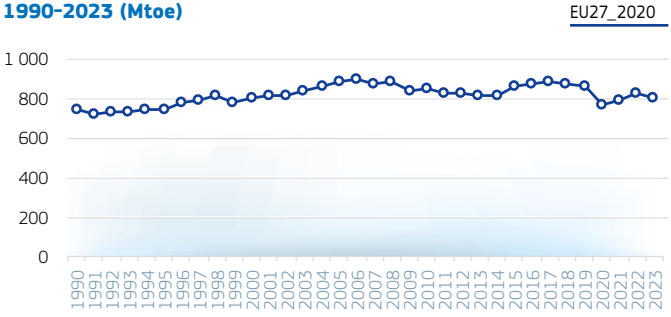
source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.2.2 Imports – Oil and petroleum products

Total

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	799.0	838.6	854.6	780.7	819.0	795.2
Index2000	100%	105%	107%	98%	103%	100%
BE	52.91	56.76	63.13	58.50	56.21	57.29
BG	6.10	7.76	9.32	6.54	9.35	8.29
CZ	8.58	10.61	11.86	11.38	11.55	11.63
DK	9.93	9.47	12.36	10.00	10.35	9.99
DE	148.18	130.79	130.16	120.03	125.80	114.80
EE	0.91	1.15	1.83	2.01	1.68	1.39
IE	9.63	9.21	9.01	8.40	8.81	8.42
EL	23.43	26.61	32.25	32.32	31.93	31.19
ES	78.71	80.88	88.77	77.86	84.01	82.07
FR	112.87	106.38	95.30	80.55	83.33	84.52
HR	4.21	4.97	4.85	4.60	4.79	4.89
IT	109.73	96.89	80.59	71.98	78.26	76.65
CY	2.54	2.93	2.60	2.28	2.50	2.52
LV	1.35	1.94	2.33	1.94	2.25	2.21
LT	5.46	10.25	10.81	9.33	9.68	10.17
LU	2.39	2.86	2.97	2.57	2.34	2.24
HU	7.00	8.53	10.43	9.83	9.62	9.74
MT	1.47	2.38	3.07	2.37	2.65	2.83
NL	104.61	146.70	147.73	143.73	150.22	142.69
AT	12.45	13.96	15.16	13.54	12.45	13.27
PL	21.78	29.22	36.16	34.53	38.00	38.10
PT	17.62	15.40	16.46	14.66	15.40	14.72
RO	6.36	8.17	12.07	11.24	12.54	12.11
SI	2.69	3.29	4.95	3.89	4.69	4.57
SK	5.56	6.85	7.02	7.17	7.19	7.65
FI	15.65	16.31	18.10	13.79	16.23	15.05
SE	26.83	28.34	25.26	25.66	27.15	26.19

Imports – Oil and petroleum Products – Total – 1990-2023 (Mtoe)



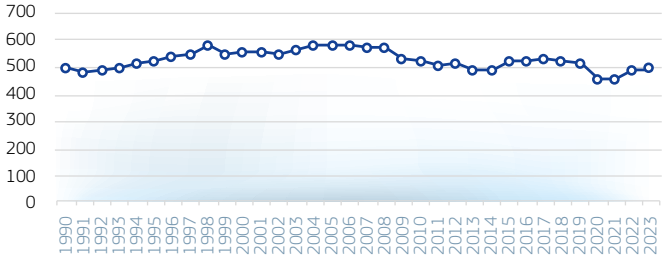
source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.2.2 Imports – Oil and petroleum products

Crude oil and NGL

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	560.3	528.3	518.8	457.3	493.8	486.4
Index2000	100%	94%	93%	82%	88%	87%
BE	34.16	33.48	34.64	29.08	28.08	30.61
BG	5.31	5.52	7.10	4.22	7.22	6.35
CZ	5.67	7.83	7.85	6.94	7.54	7.52
DK	3.81	2.79	5.17	5.32	4.58	4.85
DE	104.75	94.69	87.30	82.53	89.59	78.37
EE	0.00	0.00	0.00	0.00	0.00	0.00
IE	3.01	3.11	2.61	3.03	3.13	2.76
EL	19.22	19.97	22.65	23.22	21.76	23.15
ES	58.07	53.00	66.99	56.75	64.35	62.19
FR	85.45	65.48	49.58	34.59	41.92	46.52
HR	3.96	3.60	2.05	1.80	1.50	1.38
IT	83.64	78.60	63.14	57.02	62.52	61.24
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	9.20	9.67	8.09	8.31	9.17
LU	0.00	0.00	0.00	0.00	0.00	0.00
HU	5.79	5.84	6.10	6.00	5.98	6.20
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	61.06	61.05	63.79	58.43	61.84	62.99
AT	7.43	6.90	8.72	7.68	5.22	7.68
PL	18.27	23.03	27.02	23.98	26.69	24.86
PT	11.73	11.48	11.48	9.63	10.35	9.69
RO	4.81	5.82	8.66	6.82	8.70	7.37
SI	0.12	0.00	0.00	0.00	0.00	0.00
SK	5.28	5.48	5.16	5.48	5.48	5.44
FI	11.86	11.44	12.70	8.58	10.05	10.61
SE	20.83	20.00	16.47	18.08	18.98	17.45

Imports – Crude OIL and NGL – 1990-2023 (Mtoe) EU27_2020



source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.2 Imports – Oil and petroleum products

Ranking

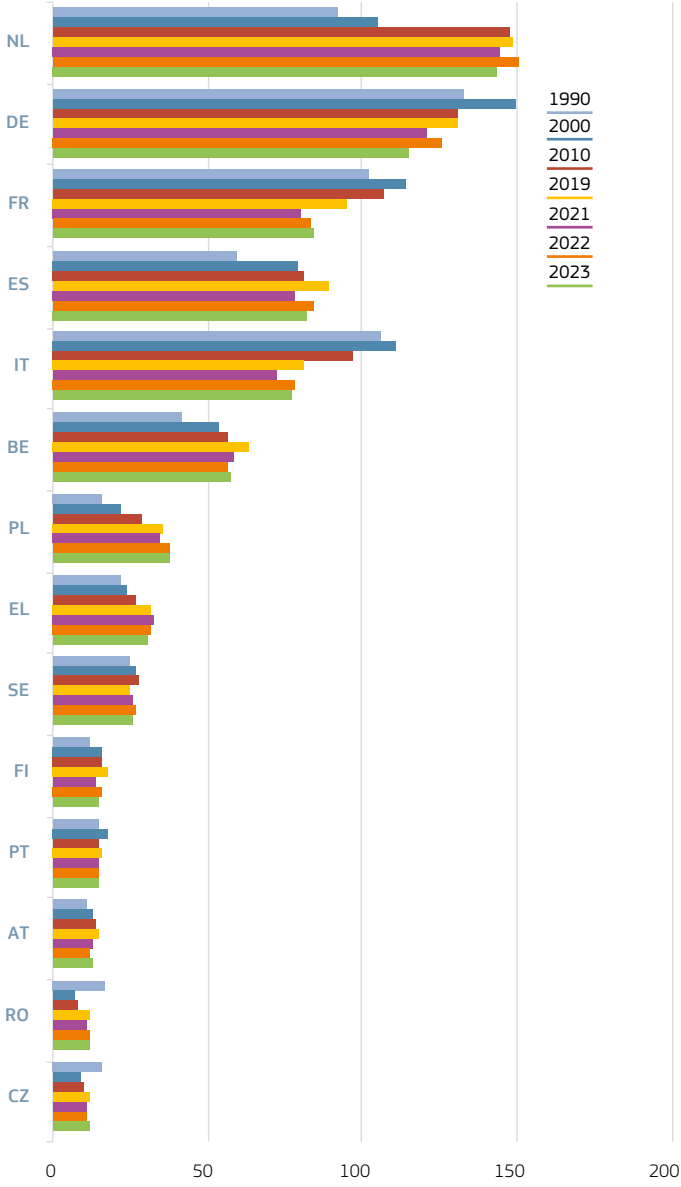
Mtoe and %	2000			2023		
Top 10 Ranking	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Oil and petroleum products						
1	DE	148.2	18.5%	NL	142.7	17.9%
2	FR	112.9	14.1%	DE	114.8	14.4%
3	IT	109.7	13.7%	FR	84.5	10.6%
4	NL	104.6	13.1%	ES	82.1	10.3%
5	ES	78.7	9.9%	IT	76.7	9.6%
6	BE	52.9	6.6%	BE	57.3	7.2%
7	SE	26.8	3.4%	PL	38.1	4.8%
8	EL	23.4	2.9%	EL	31.2	3.9%
9	PL	21.8	2.7%	SE	26.2	3.3%
10	PT	17.6	2.2%	FI	15.0	1.9%
Top 5 Total		554.1	69.4%		500.7	63.0%
Total EU27_2020		799.0	100.0%		795.2	100.0%
Of Which: crude oil and NGL						
1	DE	104.8	18.7%	DE	78.4	16.1%
2	FR	85.4	15.2%	NL	63.0	13.0%
3	IT	83.6	14.9%	ES	62.2	12.8%
4	NL	61.1	10.9%	IT	61.2	12.6%
5	ES	58.1	10.4%	FR	46.5	9.6%
6	BE	34.2	6.1%	BE	30.6	6.3%
7	SE	20.8	3.7%	PL	24.9	5.1%
8	EL	19.2	3.4%	EL	23.1	4.8%
9	PL	18.3	3.3%	SE	17.5	3.6%
10	FI	11.9	2.1%	FI	10.6	2.2%
Top 5 Total		393.0	70.1%		311.3	64.0%
Total EU27_2020		560.3	100.0%		486.4	100.0%

source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.2 Imports – Oil and petroleum products

BY Member State – Top 14 importers

1990-2023 (Mtoe)

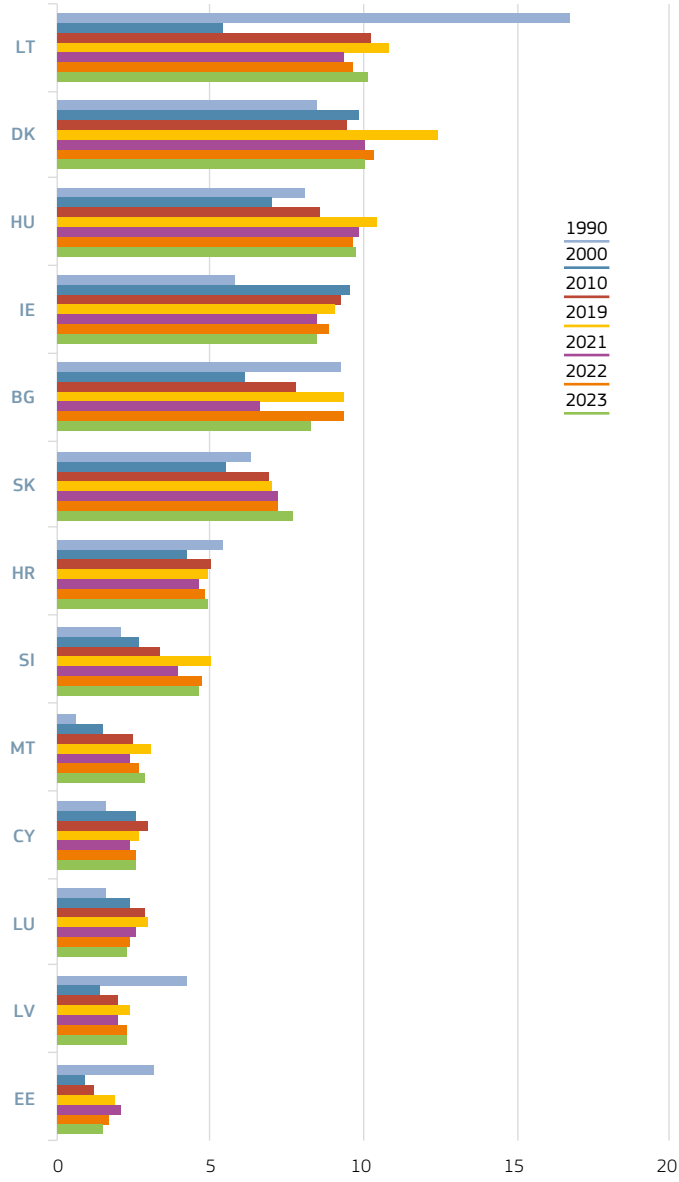


source: Eurostat April 2025

Methodology and Notes: **see appendices**

2.2.2 Imports – Oil and petroleum products

By Member State – Least 13 importers
1990-2023 (Mtoe)



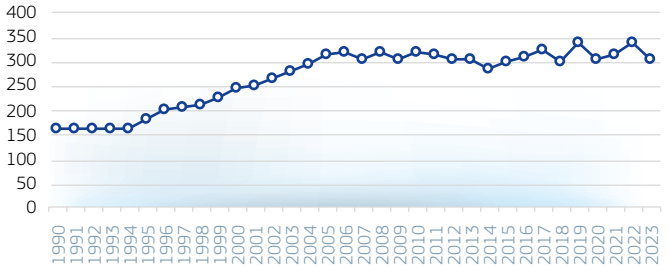
source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.3 Imports – Natural gas

Total

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	240.41	316.04	333.67	310.55	335.62	299.29
Index2000	100%	131%	139%	129%	140%	124%
BE	13.28	19.61	19.31	17.65	20.29	19.18
BG	2.74	2.13	2.46	2.73	2.47	2.17
CZ	7.48	6.98	7.86	7.18	7.19	5.76
DK	0.00	0.14	1.00	2.07	2.31	7.42
DE	61.09	78.80	75.67	69.99	70.70	60.00
EE	0.66	0.56	0.40	0.42	0.35	0.27
IE	2.48	4.48	2.42	3.11	3.30	3.21
EL	1.69	3.23	4.46	5.43	4.89	4.10
ES	15.47	31.96	32.37	32.16	34.53	30.68
FR	36.46	42.11	47.37	40.38	49.49	41.20
HR	0.91	0.87	1.66	1.91	2.55	2.54
IT	47.05	61.72	58.20	59.78	59.45	50.63
CY	0.00	0.00	0.00	0.00	0.00	0.00
LV	1.11	0.90	1.10	0.96	0.69	0.69
LT	2.06	2.48	2.30	2.00	2.96	2.78
LU	0.67	1.20	0.68	0.67	0.53	0.49
HU	7.35	7.91	9.75	6.25	7.83	6.96
MT	0.00	0.00	0.32	0.33	0.32	0.32
NL	12.47	18.45	25.54	22.15	27.80	28.90
AT	5.32	6.12	9.43	3.94	10.27	5.99
PL	6.64	8.91	14.47	15.33	12.72	13.41
PT	2.04	4.50	5.30	4.97	5.01	3.72
RO	2.71	1.82	2.16	2.87	2.29	2.15
SI	0.82	0.86	0.73	0.77	0.68	0.66
SK	5.71	5.00	5.58	4.27	5.21	3.81
FI	3.43	3.84	2.14	2.12	1.14	1.48
SE	0.78	1.47	0.98	1.07	0.65	0.78

Imports – Natural Gas – TOTAL – 1990-2023 (Mtoe) EU27_2020



source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.3 Imports – Natural gas

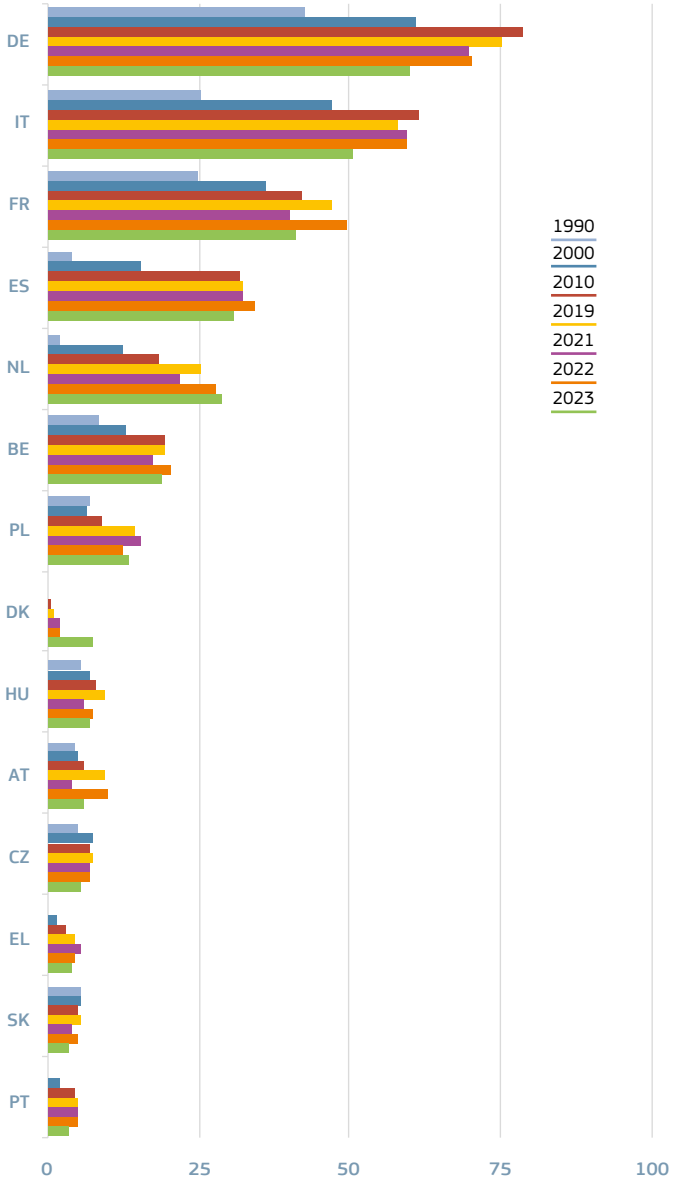
Ranking

Mtoe and %	2000			2023		
	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Natural gas						
1	DE	61.1	25.4%	DE	60.0	20.0%
2	IT	47.0	19.6%	IT	50.6	16.9%
3	FR	36.5	15.2%	FR	41.2	13.8%
4	ES	15.5	6.4%	ES	30.7	10.3%
5	BE	13.3	5.5%	NL	28.9	9.7%
6	NL	12.5	5.2%	BE	19.2	6.4%
7	CZ	7.5	3.1%	PL	13.4	4.5%
8	HU	7.3	3.1%	DK	7.4	2.5%
9	PL	6.6	2.8%	HU	7.0	2.3%
10	SK	5.7	2.4%	AT	6.0	2.0%
11	AT	5.3	2.2%	CZ	5.8	1.9%
12	FI	3.4	1.4%	EL	4.1	1.4%
13	BG	2.7	1.1%	SK	3.8	1.3%
14	RO	2.7	1.1%	PT	3.7	1.2%
15	IE	2.5	1.0%	IE	3.2	1.1%
16	LT	2.1	0.9%	LT	2.8	0.9%
17	PT	2.0	0.8%	HR	2.5	0.8%
18	EL	1.7	0.7%	BG	2.2	0.7%
19	LV	1.1	0.5%	RO	2.2	0.7%
20	HR	0.9	0.4%	FI	1.5	0.5%
21	SI	0.8	0.3%	SE	0.8	0.3%
22	SE	0.8	0.3%	LV	0.7	0.2%
23	LU	0.7	0.3%	SI	0.7	0.2%
24	EE	0.7	0.3%	LU	0.5	0.2%
25	DK	0.0	0.0%	MT	0.3	0.1%
26	CY	0.0	0.0%	EE	0.3	0.1%
27	MT	0.0	0.0%	CY	0.0	0.0%
Top 5 Total		173.3	72.1%		211.4	70.6%
Total EU27_2020		240.4	100.0%		299.3	100.0%

source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.3 Imports – Natural gas

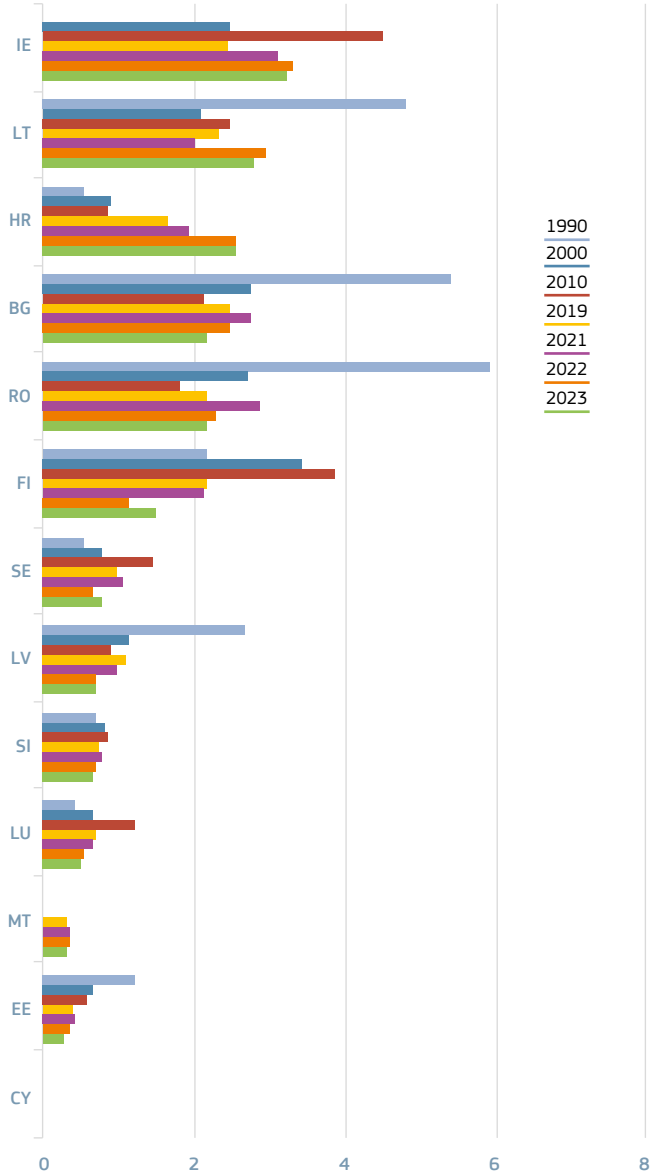
By Member State – Top 14 importers
1990-2023



source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.3 Imports – Natural gas

By Member State – Least 13 importers
1990-2023

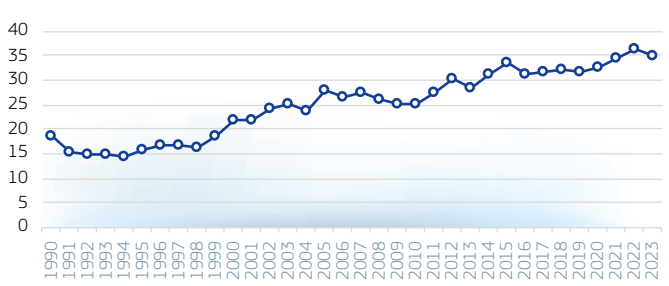


source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.4 Imports – Electricity

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	21.7	25.1	31.8	34.5	36.3	35.0
Index2000	100%	116%	147%	159%	168%	162%
BE	1.00	1.07	1.09	1.31	1.41	1.74
BG	0.08	0.10	0.26	0.16	0.13	0.38
CZ	0.75	0.57	0.95	1.30	1.44	1.16
DK	0.72	0.91	1.37	1.73	1.61	1.71
DE	3.88	3.69	3.45	4.45	4.24	5.96
EE	0.03	0.09	0.42	0.63	0.62	0.66
IE	0.01	0.07	0.19	0.21	0.14	0.32
EL	0.15	0.73	0.95	0.65	0.67	0.70
ES	1.05	0.45	1.61	1.50	0.69	0.97
FR	0.32	1.67	1.34	2.09	4.51	2.19
HR	0.38	1.07	0.98	0.99	1.02	0.86
IT	3.85	3.95	3.78	4.00	4.07	4.69
CY	0.00	0.00	0.00	0.00	0.00	0.00
LV	0.18	0.34	0.40	0.40	0.46	0.35
LT	0.44	0.70	1.14	1.07	1.11	0.94
LU	0.55	0.63	0.59	0.58	0.57	0.55
HU	0.82	0.85	1.71	1.72	1.86	1.72
MT	0.00	0.00	0.06	0.05	0.06	0.06
NL	1.97	1.34	1.75	1.80	1.59	1.68
AT	1.19	1.71	2.24	2.27	2.46	1.85
PL	0.28	0.54	1.54	1.30	1.31	1.30
PT	0.40	0.50	0.70	0.82	1.06	1.17
RO	0.07	0.07	0.47	0.75	0.74	0.87
SI	0.36	0.74	0.78	0.72	0.88	0.78
SK	0.51	0.63	1.16	1.19	1.44	0.92
FI	1.05	1.35	2.06	2.11	1.67	0.83
SE	1.57	1.28	0.78	0.72	0.53	0.63

Imports – Electricity – 1990-2023 (Mtoe)



source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.4 Imports – Electricity

Ranking

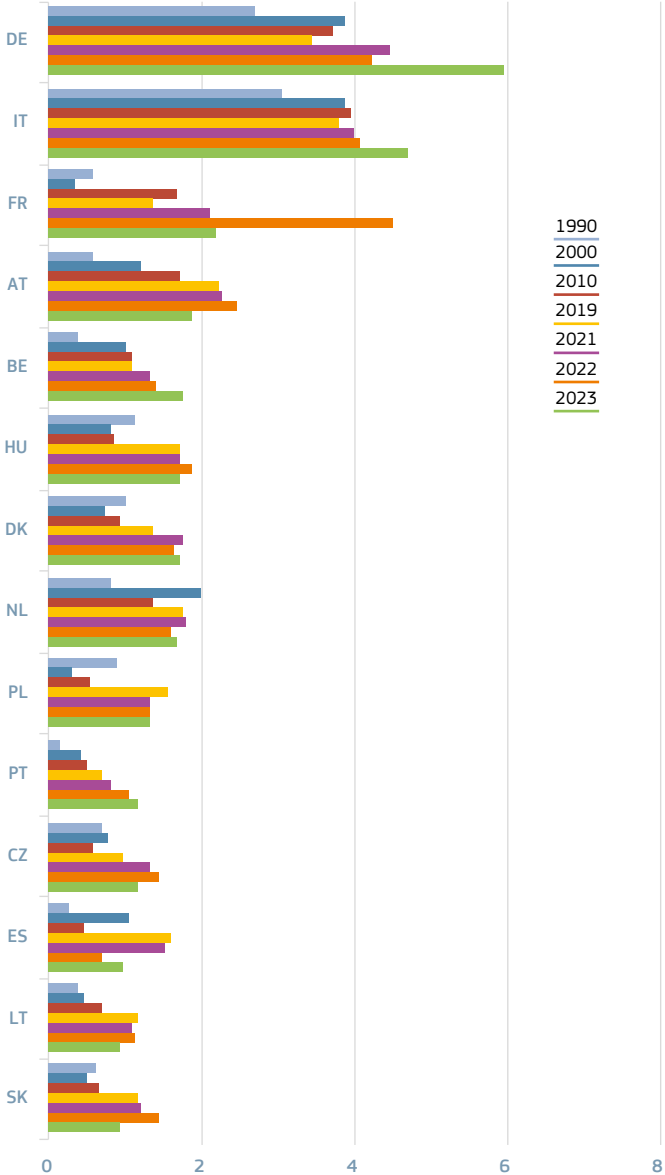
Mtoe and %	2000			2023		
	MS	Imports	EU27_2020 Share	MS	Imports	EU27_2020 Share
Electricity						
1	DE	3.88	17.9%	DE	5.96	17.0%
2	IT	3.85	17.8%	IT	4.69	13.4%
3	NL	1.97	9.1%	FR	2.19	6.3%
4	SE	1.57	7.3%	AT	1.85	5.3%
5	AT	1.19	5.5%	BE	1.74	5.0%
6	ES	1.05	4.9%	HU	1.72	4.9%
7	FI	1.05	4.8%	DK	1.71	4.9%
8	BE	1.00	4.6%	NL	1.68	4.8%
9	HU	0.82	3.8%	PL	1.30	3.7%
10	CZ	0.75	3.5%	PT	1.17	3.4%
11	DK	0.72	3.3%	CZ	1.16	3.3%
12	LU	0.55	2.6%	ES	0.97	2.8%
13	SK	0.51	2.4%	LT	0.94	2.7%
14	LT	0.44	2.0%	SK	0.92	2.6%
15	PT	0.40	1.9%	RO	0.87	2.5%
16	HR	0.38	1.7%	HR	0.86	2.5%
17	SI	0.36	1.7%	FI	0.83	2.4%
18	FR	0.32	1.5%	SI	0.78	2.2%
19	PL	0.28	1.3%	EL	0.70	2.0%
20	LV	0.18	0.8%	EE	0.66	1.9%
21	EL	0.15	0.7%	SE	0.63	1.8%
22	BG	0.08	0.4%	LU	0.55	1.6%
23	RO	0.07	0.3%	BG	0.38	1.1%
24	EE	0.03	0.1%	LV	0.35	1.0%
25	IE	0.01	0.1%	IE	0.32	0.9%
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%		16.4	47.0%
Total EU27_2020		21.7	100.0%		35.0	100.0%

source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.4 Imports – Electricity

By Member State – Top 14 importers

1990-2023 (Mtoe)

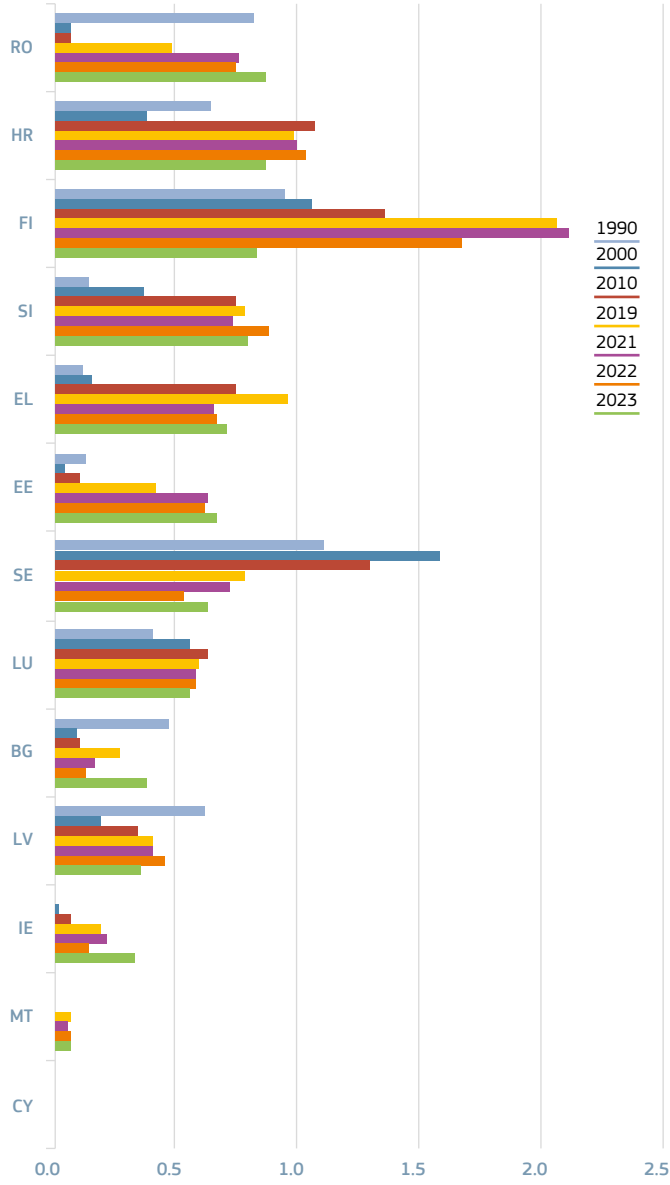


source: Eurostat April 2025

Methodology and Notes: see appendices

2.2.4 Imports – Electricity

By Member State – Least 13 importers
1990-2023



source: Eurostat April 2025
Methodology and Notes: see appendices

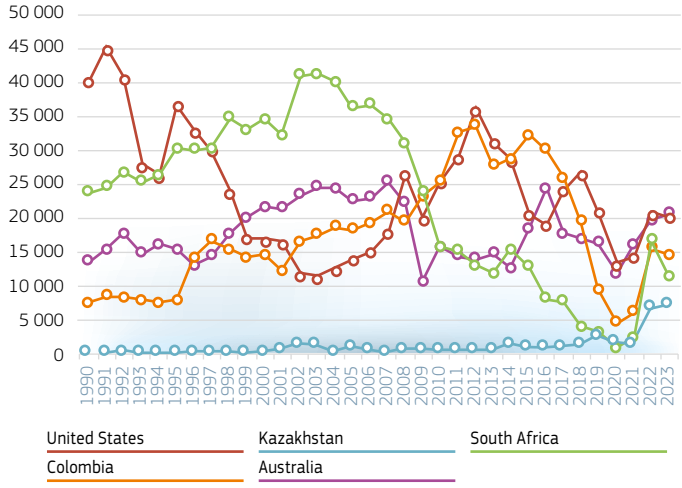
2.2.5 Imports by Country of Origin

EU27_2020 - Hard coal

Top 15 Ordered by 2023 Volume

kton	2000	2010	2019	2021	2022	2023
Australia	21576	15756	16419	16157	19751	20657
United States	16950	25248	21077	14491	20879	20280
Colombia	14566	25414	9626	6180	15532	14704
South Africa	34466	15762	3376	2463	16849	11608
Kazakhstan	0	332	2629	1210	6746	7138
Indonesia	7233	9051	2596	77	4130	2587
Canada	4675	3137	2728	2604	2679	2384
Not specified	4978	7582	0	196	71	1747
Russia	14179	36786	54569	49426	27234	882
Mozambique	70	0	1849	874	1094	775
Tanzania	0	0	0	0	250	610
Ukraine	2058	3024	58	12	713	419
Peru	0	0	62	0	160	391
China	1579	50	23	21	105	183
Venezuela	3328	659	185	75	62	168
Other extra-EU	1499	1178	1533	255	997	535
Extra-EU	127156	143977	116733	94042	117255	85069
Intra-EU	28432	20515	8700	10202	9482	7354
Total Intra-EU and Extra-EU	155589	164492	125433	104244	126737	92423

EU27_2020 – Hard coal – Imports from Extra-EU (1990-2023)
Top 5 ordered by 2023 volume (kton)



source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.5 Imports by Country of Origin

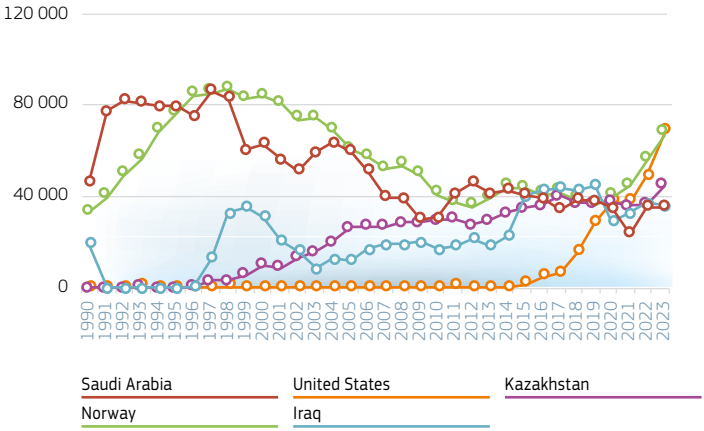
EU27_2020 - Crude Oil and NGL

Top 15 Ordered by 2023 Volume

kton	2000	2010	2019	2021	2022	2023
United States	0	28	28276	37635	48429	68029
Norway	83622	40523	36048	44411	55293	67248
Kazakhstan	9993	29654	36811	35751	36574	44609
Iraq	31317	16945	45064	32473	37147	35774
Saudi Arabia	63036	30759	38231	23818	35495	35556
Libya	45540	50929	31448	35414	29207	34447
Nigeria	22530	19746	39510	29548	25952	29643
United Kingdom	45810	28609	24129	21866	25440	25572
Azerbaijan	3712	22840	22741	20425	19880	21045
Brazil	133	4103	4909	7931	12684	17887
Russia	118282	179253	139398	113434	90215	15605
Algeria	20565	6990	12868	11327	13280	13912
Angola	3861	8367	7330	1735	11266	12914
Other American countries (aggregate changing according to the context)	150	0	0	920	4746	9709
Mexico	9041	6782	10365	7679	6125	7879
other extra-EU	84488	66800	30910	23463	32264	36915
Extra-EU	542081	512328	508037	447828	483999	476745
Intra-EU	13908	9485	4705	3892	3588	3437
Total Intra-EU and Extra-EU	555989	521813	512741	451720	487587	480182

Mio barrels	2000	2010	2019	2021	2022	2023
Extra-EU	3974	3756	3725	3283	3548	3495
Intra-EU	102	70	34	29	26	25
Total Intra-EU and Extra-EU	4076	3826	3759	3312	3575	3520

EU27_2020 – Crude Oil & NGL – Imports from Extra-EU (1990-2023)
Top 5 ordered by 2023 volume (kton)



source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.5 Imports by Country of Origin

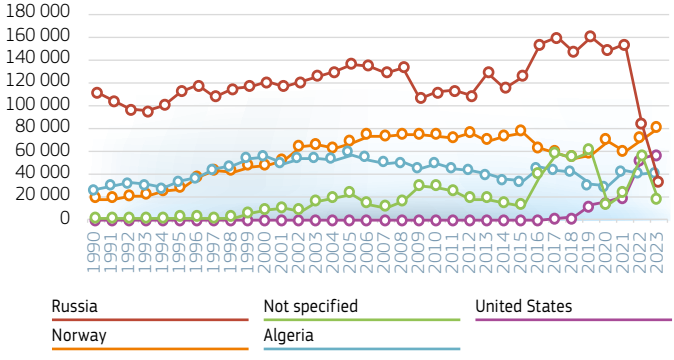
EU27_2020 - Natural Gas*

Top 8 Ordered by 2023 Volume

TJ (GCV)	2000	2010	2019	2021	2022	2023
Norway	1880469	2809991	2204945	2286786	2743948	3108528
United States	0	0	487316	782197	2056218	2184894
Algeria	2203075	1944865	1205081	1684303	1589255	1606556
Russia	4582197	4255049	6131559	5907965	3262546	1325873
Not specified	334765	1135196	2149785	844806	2101069	658043
Qatar	12443	798681	830856	598103	749961	604579
Azerbaijan	0	0	0	334403	460315	443879
United Kingdom	427099	490364	229718	211935	465129	334501
Other extra-EU	290878	1313804	1141351	802446	1024727	1287094
Extra-EU	9730926	12747951	14380612	13452944	14453168	11553948
Intra-EU	1453115	1951064	1136556	988745	1154618	2362916
Total Intra-EU and Extra-EU	11184041	14699015	15517168	14441689	15607786	13916864

Mio m³	2000	2010	2019	2021	2022	2023
Norway	46847	73240	56872	59188	70705	79809
United States	0	0	12536	20271	52997	57485
Algeria	55513	49289	30454	42825	40688	41138
Russia	120699	111743	159775	153226	83824	33403
Not specified	8126	28823	59775	22912	56984	16885
Qatar	309	20045	21039	15332	19119	15523
Azerbaijan	0	0	0	8710	12009	11577
United Kingdom	12044	13481	6115	5531	12529	8817
Other extra-EU	7389	32831	28793	20234	26196	32910
Extra-EU	250927	329452	375358	348227	375052	297547
Intra-EU	41231	51444	29871	26184	30465	61341
Total Intra-EU and Extra-EU	292158	380896	405229	374411	405517	358888

EU27_2020 – Natural Gas – Imports from Extra-EU (1990-2023)
Top 5 by 2023 volume (Mio m³)



* total imports through pipelines and LNG

source: Eurostat April 2025
Methodology and Notes: see appendices

2.2.5 Imports by Country of Origin

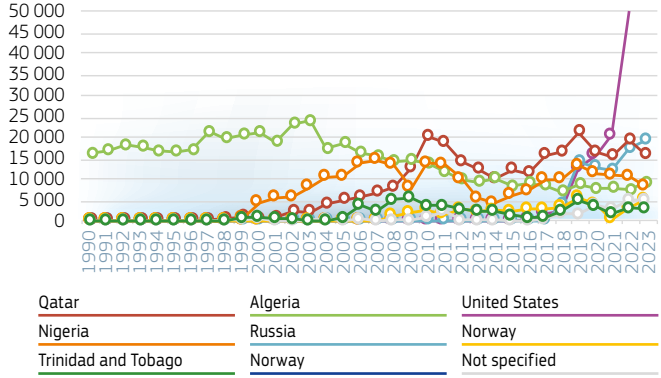
EU27_2020 - LNG

Top 8 Ordered by 2023 Volume

TJ (GCV)	2000	2010	2019	2021	2022	2023
United States	0	0	487316	782197	2056218	2169018
Russia	0	115	554635	469254	675231	769394
Qatar	12443	798681	830856	598103	749961	604579
Algeria	871464	568072	346350	317910	298813	366950
Nigeria	172020	562811	535375	437550	424825	324649
Not specified	22204	36092	64003	116526	199728	196437
Norway	0	104694	206722	11712	119036	195498
Trinidad and Tobago	36334	145341	197112	70990	120169	111108
Other extra-EU	42500	220504	143616	131910	329206	375762
Extra-EU	1156965	2436310	3365985	2936154	4973187	5113395
Intra-EU	0	3153	27623	25624	44804	62899
Total Intra-EU and Extra-EU	1156965	2439463	3393607	2961778	5017991	5176294

Mio m³	2000	2010	2019	2021	2022	2023
United States	0	0	12536	20271	52997	57083
Russia	0	3	14038	12020	17095	19178
Qatar	309	20045	21039	15332	19119	15523
Algeria	21093	13730	8638	7822	7378	9124
Nigeria	4385	13682	13163	10787	10514	8134
Norway	0	2598	5539	302	3073	5112
Not specified	552	891	1645	2875	4962	5069
Trinidad and Tobago	902	3594	4975	1812	3090	2953
Other extra-EU	1053	5457	3731	3408	8662	9713
Extra-EU	28294	60000	85304	74628	126889	131890
Intra-EU	0	78	681	638	1170	1625
Total Intra-EU and Extra-EU	28294	60078	85985	75266	128059	133515

EU27_2020 – LNG – Imports from Extra-EU (1990-2023)
Top 5 by 2023 volume (Mio m³)



source: Eurostat April 2025
Methodology and Notes: see appendices

2.3 Energy Import Dependency

2.3.1 Import Dependency* – All Fuels

(%)

Imports From Extra-EU	2000	2010	2019	2021	2022	2023
EU27_2020	57.8	57.4	62.3	57.1	64.5	60.1
Index2000	100.0	99.3	107.7	98.8	111.5	104.0
Intra and Extra-EU Imports						
BE	85.2	88.5	89.0	80.3	84.9	86.8
BG	46.6	40.4	38.6	36.3	37.2	39.9
CZ	22.7	25.4	40.8	40.0	41.8	41.7
DK	-38.3	-16.8	40.5	33.1	44.1	40.2
DE	59.8	60.5	67.4	63.7	69.0	67.2
EE	34.7	15.2	4.9	1.5	6.6	3.7
IE	86.3	88.3	69.3	78.0	79.9	78.6
EL	78.0	75.1	82.0	80.0	86.7	82.9
ES	80.5	82.0	79.3	73.7	79.7	73.3
FR	51.8	49.1	47.8	44.3	52.1	45.1
HR	48.4	46.7	56.4	54.7	60.4	55.9
IT	87.3	84.0	78.8	74.5	80.5	76.0
CY	106.4	107.4	102.6	98.9	102.3	100.4
LV	61.1	48.0	46.7	40.1	39.2	33.0
LT	58.5	80.6	77.1	75.0	74.0	69.2
LU	99.6	97.1	95.0	92.4	91.5	90.6
HU	55.0	56.9	69.7	54.1	64.2	62.1
MT	181.8	252.0	341.4	332.5	328.2	330.5
NL	44.7	32.8	73.9	67.4	94.0	82.0
AT	65.6	62.8	71.6	51.9	74.2	61.1
PL	10.8	31.6	45.4	40.6	46.1	48.2
PT	87.5	76.6	76.8	69.0	73.5	68.6
RO	21.9	21.4	30.3	31.7	32.4	27.9
SI	51.9	49.4	53.4	49.2	53.9	49.3
SK	65.1	61.9	69.8	52.6	69.6	58.4
FI	56.6	49.1	43.3	38.3	41.3	29.8
SE	40.4	39.5	31.3	22.4	28.2	27.5

* Negative Rate Indicates a Net Exporter.

Values Over 100% Indicate Stocks Build Up.

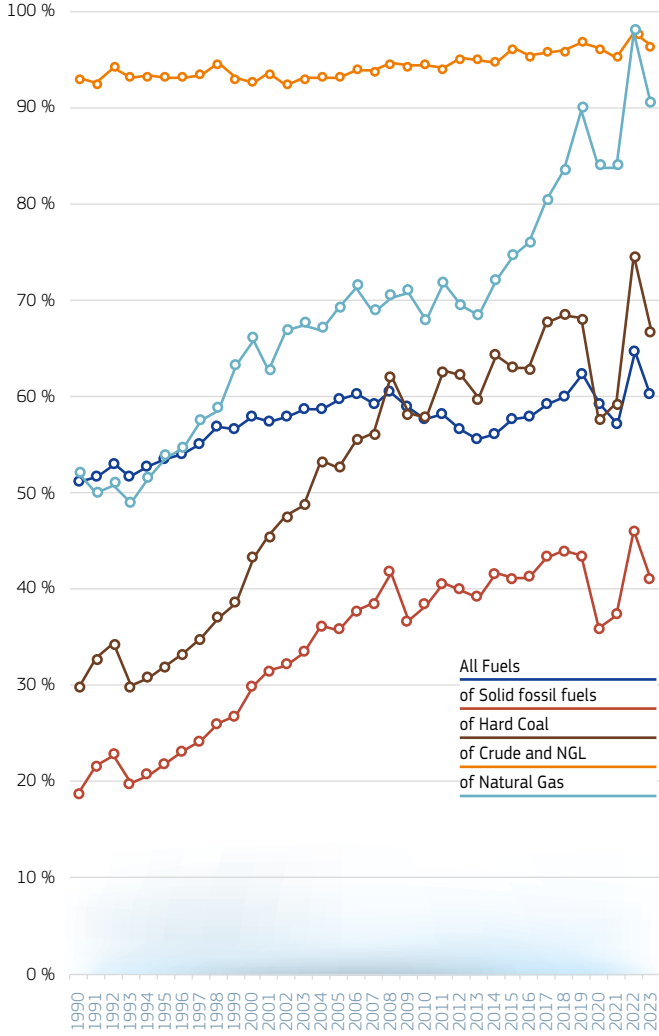
EU27_2020: imports from extra-EU

source: Eurostat April 2025

Methodology and Notes: see appendices

2.3.2 Import Dependency by Fuel

EU27_2020 – Imports from Extra-EU – 1990-2023 (%)



source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.3.3 Import Dependency - Solid Fossil Fuels*

(%)

Imports From Extra-EU	2000	2010	2019	2021	2022	2023
EU27_2020	29.8	38.2	43.3	37.2	45.9	40.8
Index2000	100.0	128.1	145.1	124.7	153.8	136.7
Intra and Extra-EU Imports						
BE	91.2	97.5	101.8	92.2	99.5	101.1
BG	35.2	24.5	7.5	10.4	11.6	5.2
CZ	-22.0	-15.3	8.6	13.9	14.1	14.9
DK	94.9	69.4	145.3	10.9	105.5	108.4
DE	25.6	40.0	47.2	47.8	50.4	49.2
EE	125.2	132.6	107.2	95.2	95.8	268.4
IE	93.3	77.7	67.9	106.4	126.8	86.4
EL	8.5	5.1	6.4	9.6	-0.7	-9.5
ES	61.3	92.8	89.5	102.0	144.3	71.8
FR	86.3	101.0	99.6	73.5	81.6	74.8
HR	110.9	102.6	107.3	100.7	100.9	109.2
IT	104.6	100.8	98.6	97.0	102.4	96.4
CY	102.0	65.6	117.2	97.6	147.3	41.9
LV	84.1	106.5	110.8	93.1	193.2	87.1
LT	101.7	95.7	108.1	91.9	127.8	89.9
LU	100.0	102.2	93.1	88.5	98.5	99.6
HU	28.1	41.9	45.7	38.5	41.4	24.9
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	99.4	101.4	102.1	99.6	102.1	102.4
AT	83.9	99.6	96.7	99.4	99.9	102.0
PL	-29.0	-5.0	6.0	-3.6	8.0	5.0
PT	102.9	98.3	122.1	4.5	107.4	81.2
RO	25.5	16.9	22.0	23.2	20.0	13.0
SI	18.8	19.3	20.1	11.0	28.1	27.0
SK	80.2	75.7	92.2	88.1	96.1	90.4
FI	97.6	86.3	98.9	72.4	126.3	70.4
SE	105.4	113.7	103.2	94.2	104.7	96.4

* Negative Rate Indicates a Net Exporter.

Values Over 100% Indicate Stocks Build Up.

EU27_2020: imports from extra-EU

source: Eurostat April 2025
Methodology and Notes: see appendices

2.3.4 Import Dependency – Hard Coal *
(%)

Imports From Extra-EU	2000	2010	2019	2021	2022	2023
EU27_2020	43.2	57.7	68.0	59.2	74.5	66.7
Index2000	100.0	133.4	157.3	136.8	172.3	154.3
Intra and Extra-EU Imports						
BE	93.5	100.0	102.7	93.0	99.0	95.8
BG	101.0	86.0	91.5	108.2	196.9	81.3
CZ	-56.4	-53.9	41.5	50.5	65.9	71.4
DK	94.8	69.3	145.7	10.3	105.6	108.4
DE	39.2	73.2	95.2	97.6	103.2	101.8
EE	116.1	118.3	96.7	151.4	112.0	94.1
IE	93.1	77.5	67.0	106.4	127.3	86.6
EL	105.8	100.5	105.0	92.7	82.0	60.5
ES	71.5	95.7	91.6	101.8	146.2	70.5
FR	87.2	100.6	99.2	88.7	103.4	98.7
HR	112.8	102.8	108.6	100.7	101.3	109.9
IT	105.7	101.4	98.4	97.0	102.3	95.4
CY	102.0	65.4	117.2	97.6	147.3	0.0
LV	82.5	106.6	110.8	93.1	193.2	87.1
LT	100.0	109.7	109.1	91.2	132.1	87.0
LU	100.0	102.5	92.3	87.4	98.3	99.5
HU	96.4	99.2	98.8	98.5	96.5	104.2
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	98.9	101.6	101.8	98.6	102.2	102.1
AT	91.6	97.3	98.4	100.8	99.2	103.8
PL	-29.9	3.7	17.8	8.3	21.4	20.9
PT	103.4	98.3	122.3	1.2	107.7	87.9
RO	96.3	88.4	97.7	102.6	72.9	91.4
SI	118.2	135.3	95.9	103.8	95.6	99.4
SK	103.8	91.9	102.7	95.5	101.0	99.0
FI	97.7	85.5	96.1	72.0	121.4	69.1
SE	107.7	115.2	98.1	101.8	95.3	99.9

* Negative Rate Indicates a Net Exporter.

Values Over 100% Indicate Stocks Build Up.

EU27_2020: imports from extra-EU

source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.3.5 Import dependency - Oil and petroleum products*

(%)

Imports From Extra-EU	2000	2010	2019	2021	2022	2023
EU27_2020	99.8	102.1	105.0	99.7	106.4	102.7
Index2000	100.0	102.3	105.2	100.0	106.6	102.9
Intra and Extra-EU Imports						
BE	122.3	132.7	139.2	129.8	138.4	134.2
BG	97.5	104.3	104.2	99.0	107.6	103.2
CZ	95.3	96.5	97.5	96.9	99.9	99.4
DK	-96.5	-49.0	49.6	32.7	57.8	54.8
DE	96.2	99.1	98.5	96.9	98.3	96.7
EE	117.3	130.2	547.2	-114.4	265.0	-144.4
IE	100.6	99.2	100.9	100.9	102.3	101.4
EL	123.4	117.1	116.1	109.6	118.5	114.9
ES	110.5	113.7	114.8	109.4	117.1	114.8
FR	102.7	100.6	100.6	98.7	100.5	99.9
HR	61.0	80.8	76.9	79.0	87.3	83.4
IT	97.9	97.6	97.1	88.5	97.4	93.0
CY	108.4	111.5	111.6	110.7	113.4	113.2
LV	95.5	110.0	119.2	106.6	109.0	101.4
LT	105.2	104.0	107.3	108.3	104.0	100.0
LU	102.1	99.3	100.4	99.8	99.7	99.5
HU	75.9	85.3	86.6	86.9	89.4	89.0
MT	181.8	253.3	548.1	599.3	551.0	565.5
NL	138.8	133.4	138.9	119.2	149.7	125.3
AT	89.2	90.6	95.8	90.5	94.8	96.3
PL	101.2	99.0	98.2	97.5	99.2	97.6
PT	103.6	101.1	106.8	105.0	105.4	105.1
RO	34.4	52.7	65.6	68.4	72.8	70.7
SI	101.5	99.9	109.6	103.5	98.4	98.9
SK	92.5	98.4	101.3	98.3	103.0	105.2
FI	111.5	94.2	98.9	99.2	106.1	89.8
SE	110.4	106.3	127.5	92.1	127.7	119.0

* Negative Rate Indicates a Net Exporter.

Values Over 100% Indicate Stocks Build Up.

EU27_2020: imports from extra-EU

source: Eurostat April 2025
Methodology and Notes: see appendices see appendices

2.3.6 Import Dependency – Crude oil and NGL*

(%)

Imports From Extra-EU	2000	2010	2019	2021	2022	2023
EU27_2020	92.5	94.4	96.6	95.1	97.6	96.3
Index2000	100.0	102.0	104.4	102.8	105.5	104.1
Intra and Extra-EU Imports						
BE	100.2	99.9	100.0	99.2	99.7	99.9
BG	98.7	99.1	102.6	98.6	101.3	99.8
CZ	95.2	97.5	98.6	96.2	99.6	98.9
DK	-120.5	-68.8	36.0	56.7	53.8	60.2
DE	93.8	97.3	98.3	97.0	98.0	97.6
EE	0.0	0.0	0.0	0.0	0.0	0.0
IE	89.8	101.6	100.9	98.1	102.5	97.3
EL	99.6	99.6	98.1	98.4	99.8	99.3
ES	100.6	99.3	101.0	98.7	100.3	99.5
FR	98.5	98.2	98.4	97.2	98.9	99.1
HR	72.1	82.3	71.1	67.3	70.3	63.0
IT	95.1	94.5	93.9	92.0	94.1	92.8
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	99.0	100.8	100.3	99.2	98.3
LU	0.0	0.0	0.0	0.0	0.0	0.0
HU	78.5	85.3	84.6	85.2	89.8	83.9
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	96.7	97.6	99.9	96.8	103.6	97.7
AT	86.9	86.5	94.0	91.7	91.3	94.2
PL	99.2	98.4	96.7	94.6	98.0	97.3
PT	99.0	98.8	100.4	98.6	99.2	99.9
RO	43.5	57.2	72.0	67.3	74.5	70.7
SI	87.2	0.0	0.0	0.0	0.0	0.0
SK	97.6	99.9	100.5	99.1	101.1	103.6
FI	101.5	101.1	99.0	98.5	99.2	98.5
SE	100.6	99.0	100.0	97.4	102.6	98.6

* Negative Rate Indicates a Net Exporter.

Values Over 100% Indicate Stocks Build Up.

EU27_2020: imports from extra-EU

source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.3.7 Import Dependency - Natural Gas*

(%)

Imports From Extra-EU	2000	2010	2019	2021	2022	2023
EU27_2020	65.7	67.8	89.7	83.7	97.6	90.1
Index2000	100.0	103.1	136.5	127.4	148.6	137.1
Intra and Extra-EU Imports						
BE	99.3	100.3	101.9	99.9	100.8	100.9
BG	93.5	92.6	100.4	96.2	106.1	99.7
CZ	99.8	84.8	109.8	92.1	113.4	100.1
DK	-64.8	-68.3	-7.2	27.8	27.1	13.4
DE	79.1	81.2	100.1	90.7	105.9	93.7
EE	100.0	100.0	105.4	106.1	118.8	106.2
IE	72.1	95.3	53.0	71.3	73.9	77.5
EL	99.1	99.9	99.0	99.4	101.6	97.6
ES	101.6	99.4	101.6	100.4	103.3	99.0
FR	100.0	92.8	104.5	96.1	109.0	99.5
HR	41.0	18.1	66.4	74.5	77.5	68.7
IT	81.1	90.5	95.1	93.7	99.2	96.3
CY	0.0	0.0	0.0	0.0	0.0	0.0
LV	101.9	61.8	100.0	100.0	99.8	100.1
LT	100.0	99.7	100.0	100.8	101.2	96.0
LU	100.0	100.0	100.0	100.0	100.0	100.0
HU	75.4	78.7	115.2	67.2	99.1	98.6
MT	0.0	0.0	103.6	103.5	100.2	93.9
NL	-49.1	-60.4	26.3	33.8	64.8	65.8
AT	80.6	75.3	122.8	51.0	149.1	101.6
PL	66.3	69.3	82.4	83.6	81.2	81.3
PT	100.3	100.4	99.9	100.0	104.0	97.5
RO	19.8	16.8	23.2	22.8	18.1	4.2
SI	99.3	99.3	99.2	99.4	99.5	99.4
SK	98.8	99.9	136.6	69.0	137.3	105.7
FI	100.0	100.0	100.6	99.7	103.2	105.4
SE	100.0	100.0	101.8	101.7	102.5	107.4

* Negative Rate Indicates a Net Exporter.

Values Over 100% Indicate Stocks Build Up.

EU27_2020: imports from extra-EU

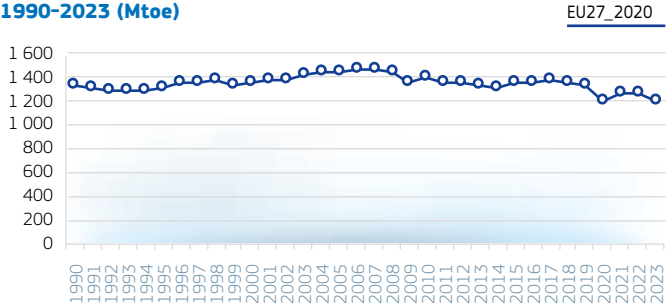
source: Eurostat April 2025
Methodology and Notes: see appendices

2.4 Energy Transformation

2.4.1 Transformation Input - All Fuels

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	1383.7	1414.3	1351.0	1287.9	1275.8	1226.2
Index2000	100%	102%	98%	93%	92%	89%
BE	68.63	67.85	65.34	63.73	60.77	59.19
BG	18.65	18.84	19.45	17.26	21.09	17.42
CZ	31.82	37.33	34.69	33.33	33.14	30.31
DK	18.06	16.56	16.55	17.19	16.91	16.94
DE	292.34	291.21	260.47	252.82	248.20	219.68
EE	3.64	4.93	4.20	3.97	4.20	3.86
IE	8.59	8.52	8.00	8.50	8.55	7.88
EL	35.80	35.28	41.77	42.80	41.73	41.80
ES	115.16	121.90	130.89	118.00	127.38	123.35
FR	234.06	227.79	197.25	175.80	159.08	173.78
HR	7.72	6.78	5.17	5.02	4.80	4.98
IT	163.61	161.45	138.58	131.53	137.60	124.98
CY	2.08	1.21	1.06	1.04	1.07	1.06
LV	1.39	1.49	1.58	1.53	1.31	1.38
LT	9.43	12.53	12.17	10.95	10.97	12.03
LU	0.20	0.74	0.35	0.44	0.42	0.46
HU	19.86	23.01	18.23	17.87	16.68	16.41
MT	0.50	0.58	0.34	0.36	0.38	0.38
NL	104.43	113.01	129.69	128.39	126.87	125.05
AT	20.35	22.52	23.70	22.33	19.50	22.41
PL	72.87	79.74	81.21	81.79	81.43	74.10
PT	20.97	20.73	22.24	19.77	19.84	18.29
RO	29.11	26.03	26.22	23.45	23.75	22.14
SI	3.11	3.41	3.14	3.10	2.74	2.90
SK	16.91	17.34	15.61	16.79	15.65	16.34
FI	32.41	38.72	35.67	31.15	33.21	34.10
SE	52.05	54.78	57.35	58.98	58.61	54.99

Transformation Input – All Fuels – 1990-2023 (Mtoe)



source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.4.2 Transformation Input by Fuel

	2022						
Mtoe	Transformation Input	Solid fossil fuels	Oil and petroleum products	Natural gas	Nuclear	Renewables and biofuels	Waste, non-renewable
EU27_2020	1 226.2	132.9	658.7	86.3	158.0	167.1	9.1
Share - %	100.0%	10.8%	53.7%	7.0%	12.9%	13.6%	0.7%
BE	59.19	2.82	40.54	2.71	7.93	3.79	0.48
BG	17.42	3.48	7.27	0.93	4.22	1.43	0.01
CZ	30.31	10.69	8.10	1.25	7.57	2.23	0.09
DK	16.94	0.58	9.70	0.38	0.00	5.70	0.38
DE	219.68	46.65	113.47	17.53	1.86	34.43	2.86
EE	3.86	0.00	0.09	0.09	0.00	0.94	0.03
IE	7.88	0.31	3.34	2.44	0.00	1.60	0.09
EL	41.80	1.17	35.75	2.65	0.00	2.19	0.01
ES	123.35	3.03	77.56	10.29	14.78	16.50	0.29
FR	173.78	5.47	52.20	5.79	88.14	20.20	1.18
HR	4.98	0.28	2.38	0.94	0.00	1.37	0.00
IT	124.98	5.15	80.08	19.46	0.00	18.93	0.86
CY	1.06	0.00	0.95	0.00	0.00	0.11	0.00
LV	1.38	0.00	0.02	0.39	0.00	0.97	0.00
LT	12.03	0.00	10.40	0.19	0.00	1.23	0.06
LU	0.46	0.00	0.00	0.04	0.00	0.27	0.02
HU	16.41	0.97	7.85	1.94	4.02	1.49	0.11
MT	0.38	0.00	0.01	0.34	0.00	0.04	0.00
NL	125.05	4.92	102.29	7.44	0.93	7.93	0.78
AT	22.41	3.06	9.41	1.54	0.00	7.10	0.39
PL	74.10	33.93	28.82	3.65	0.00	6.57	0.23
PT	18.29	0.00	11.64	2.02	0.00	4.24	0.08
RO	22.14	2.31	11.38	2.54	2.87	2.98	0.00
SI	2.90	0.69	0.00	0.15	1.32	0.70	0.01
SK	16.34	3.20	6.25	0.89	4.73	1.14	0.03
FI	34.10	2.20	14.57	0.58	8.02	7.48	0.27
SE	54.99	1.96	24.61	0.09	11.58	15.59	0.81

source: Eurostat April 2025
Methodology and Notes: see appendices

2.4.3 Transformation Input by Sector

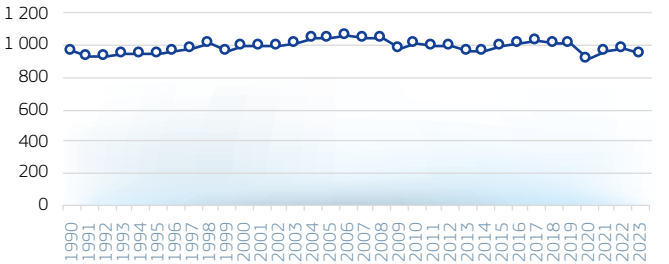
Mtoe	2023 Total, All Sectors	Electricity producers	Heat producers	CHP producers	Refineries, Petroleum and sub-products	Other transformation input
EU27_2020	1 226.2	355.4	18.9	121.9	646.1	83.8
Share - %	100.0%	29.0%	1.5%	9.9%	52.7%	6.8%
BE	59.19	12.07	0.01	2.59	40.51	4.02
BG	17.42	7.61	0.33	1.52	7.21	0.76
CZ	30.31	13.90	0.67	4.40	8.05	3.29
DK	16.94	1.96	0.93	3.41	9.61	1.04
DE	219.68	57.62	3.06	23.98	111.99	23.02
EE	3.86	0.97	0.32	0.58	0.06	1.93
IE	7.88	4.03	0.00	0.26	3.28	0.31
EL	41.80	5.96	0.00	1.28	34.53	0.03
ES	123.35	39.96	0.00	3.00	75.53	4.86
FR	173.78	105.10	2.00	6.30	50.79	9.58
HR	4.98	1.26	0.04	1.21	2.37	0.09
IT	124.98	25.59	0.39	18.18	77.13	3.69
CY	1.06	1.04	0.00	0.01	0.00	0.01
LV	1.38	0.37	0.45	0.53	0.00	0.03
LT	12.03	0.32	0.59	0.62	10.32	0.18
LU	0.46	0.08	0.01	0.23	0.00	0.14
HU	16.41	5.35	0.60	1.94	7.84	0.68
MT	0.38	0.37	0.00	0.00	0.00	0.01
NL	125.05	10.18	0.73	7.59	101.80	4.75
AT	22.41	6.01	0.95	2.36	9.19	3.90
PL	74.10	4.22	2.52	28.57	28.38	10.42
PT	18.29	4.97	0.00	1.10	11.39	0.83
RO	22.14	8.09	0.46	1.77	11.19	0.63
SI	2.90	1.84	0.07	0.88	0.00	0.12
SK	16.34	5.31	0.39	1.28	6.17	3.18
FI	34.10	10.74	2.33	4.07	14.29	2.67
SE	54.99	20.49	2.08	4.26	24.51	3.67

source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.4.4 Transformation Output - All Fuels

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	1031.9	1059.6	1056.5	1004.2	1014.3	988.4
Index2000	100%	103%	102%	97%	98%	96%
BE	54.28	54.65	54.08	52.09	49.80	50.93
BG	11.62	12.01	12.75	10.39	13.54	11.71
CZ	19.91	23.27	22.16	21.51	21.21	19.80
DK	15.59	14.17	16.36	16.48	16.17	16.42
DE	210.06	210.02	202.79	196.36	199.93	180.39
EE	1.84	2.53	2.62	2.62	2.59	2.58
IE	5.62	5.98	6.17	6.51	6.60	6.33
EL	29.13	28.76	37.85	39.25	38.77	39.45
ES	87.21	96.91	107.03	97.22	104.22	103.32
FR	154.62	139.32	117.67	98.44	96.39	105.05
HR	6.97	6.14	4.58	4.40	4.04	4.24
IT	129.85	131.20	115.34	108.41	113.98	105.82
CY	1.47	0.46	0.45	0.45	0.46	0.47
LV	1.18	1.29	1.28	1.31	1.12	1.19
LT	7.38	11.86	11.93	10.50	10.70	11.74
LU	0.11	0.47	0.26	0.34	0.33	0.34
HU	14.06	17.08	13.36	13.28	12.26	12.35
MT	0.16	0.18	0.19	0.20	0.21	0.22
NL	93.36	100.58	119.87	118.89	117.58	117.21
AT	17.16	18.58	20.36	19.12	16.41	19.32
PL	49.29	57.00	61.42	61.07	61.68	57.40
PT	17.04	17.75	19.00	17.17	17.28	16.11
RO	22.32	20.64	21.15	18.81	19.57	18.28
SI	1.57	1.69	1.69	1.70	1.46	1.65
SK	12.09	12.72	11.30	12.34	11.44	11.70
FI	25.53	31.05	30.09	25.32	27.39	27.53
SE	42.47	43.28	44.72	50.05	49.19	46.89

Transformation Output – All Fuels – 1990-2023 (Mtoe)



source: Eurostat April 2025
Methodology and Notes: see appendices

2.4.5 Transformation Output by Fuel

Mtoe	2023						
	Transformation Output	Solid fossil fuels	Oil and petroleum products	Natural gas	Renewables and biofuels	Electricity	Heat
EU27_2020	988.4	22.1	2.8	0.0	645.4	0.0	0.0
Share - %	100.0%	2.2%	0.3%	0.0%	65.3%	0.0%	0.0%
BE	50.93	0.92	0.01	0.00	40.69	0.00	0.00
BG	11.71	0.12	0.00	0.00	7.10	0.00	0.00
CZ	19.80	1.45	0.00	0.00	8.21	0.00	0.00
DK	16.42	0.00	0.62	0.00	9.48	0.00	0.00
DE	180.39	7.38	0.91	0.00	109.81	0.00	0.00
EE	2.58	0.00	0.01	0.00	1.23	0.00	0.00
IE	6.33	0.00	0.00	0.00	3.34	0.00	0.00
EL	39.45	0.00	0.00	0.00	35.13	0.00	0.00
ES	103.32	0.88	0.02	0.00	75.35	0.00	0.00
FR	105.05	0.09	0.71	0.00	50.37	0.00	0.00
HR	4.24	0.00	0.00	0.00	2.39	0.00	0.00
IT	105.82	0.87	0.23	0.00	78.15	0.00	0.00
CY	0.47	0.00	0.00	0.00	0.00	0.00	0.00
LV	1.19	0.00	0.00	0.00	0.00	0.00	0.00
LT	11.74	0.00	0.00	0.00	10.29	0.00	0.00
LU	0.34	0.00	0.00	0.00	0.00	0.00	0.00
HU	12.35	0.16	0.01	0.00	7.81	0.00	0.00
MT	0.22	0.00	0.00	0.00	0.00	0.00	0.00
NL	117.21	1.28	0.27	0.00	100.89	0.00	0.00
AT	19.32	0.92	0.01	0.00	8.81	0.00	0.00
PL	57.40	5.65	0.00	0.00	27.86	0.00	0.00
PT	16.11	0.00	0.00	0.00	11.32	0.00	0.00
RO	18.28	0.00	0.00	0.00	11.66	0.00	0.00
SI	1.65	0.00	0.00	0.00	0.00	0.00	0.00
SK	11.70	1.09	0.00	0.00	6.36	0.00	0.00
FI	27.53	0.60	0.01	0.00	14.44	0.00	0.00
SE	46.89	0.70	0.03	0.00	24.75	0.00	0.00

source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.4.6 Transformation Output by Sector

Mtoe	2023					
	Total, All Sectors	Electricity producers	Heat producers	CHP producers	Refineries, Petroleum and sub-products	Other transformation output
EU27_2020	988.4	187.0	15.4	76.0	642.7	67.3
Share - %	100.0%	18.9%	1.6%	7.7%	65.0%	6.8%
BE	50.93	5.82	0.00	1.60	40.59	2.92
BG	11.71	3.01	0.18	1.05	6.92	0.55
CZ	19.80	5.34	0.56	3.00	8.21	2.69
DK	16.42	1.96	0.84	2.93	9.48	1.21
DE	180.39	34.11	2.52	16.42	109.81	17.53
EE	2.58	0.40	0.24	0.42	0.06	1.45
IE	6.33	2.55	0.00	0.16	3.32	0.30
EL	39.45	3.84	0.00	0.47	35.13	0.02
ES	103.32	22.15	0.00	1.88	75.35	3.93
FR	105.05	42.75	1.62	4.13	50.37	6.18
HR	4.24	1.08	0.04	0.72	2.33	0.08
IT	105.82	14.29	0.33	9.99	78.15	3.05
CY	0.47	0.45	0.00	0.01	0.00	0.01
LV	1.19	0.37	0.38	0.41	0.00	0.02
LT	11.74	0.32	0.43	0.47	10.29	0.23
LU	0.34	0.08	0.01	0.15	0.00	0.10
HU	12.35	2.37	0.52	1.12	7.78	0.56
MT	0.22	0.20	0.00	0.00	0.00	0.01
NL	117.21	7.12	0.48	4.82	100.89	3.90
AT	19.32	5.26	0.81	1.89	8.81	2.56
PL	57.40	3.64	2.19	14.81	27.52	9.25
PT	16.11	3.60	0.00	0.61	11.16	0.74
RO	18.28	4.42	0.43	1.24	11.59	0.60
SI	1.65	1.00	0.06	0.48	0.00	0.11
SK	11.70	2.14	0.27	0.76	6.03	2.50
FI	27.53	5.63	1.92	3.08	14.28	2.61
SE	46.89	13.07	1.59	3.33	24.67	4.23

source: Eurostat April 2025
Methodology and Notes: see appendices

2.5 Final Energy

2.5.1 Available for final consumption

Total

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	1022.4	1073.8	1033.8	976.1	1030.2	975.3
Index2000	100%	105%	101%	95%	101%	95%
BE	40.82	42.98	40.12	38.24	40.97	37.10
BG	9.64	9.24	10.15	10.18	10.82	10.26
CZ	26.42	27.75	27.15	26.11	28.25	27.18
DK	14.32	14.97	14.28	13.56	14.01	13.18
DE	234.79	233.13	225.46	214.49	219.16	210.75
EE	2.52	3.14	2.97	2.96	2.95	2.86
IE	10.37	11.29	11.56	11.12	11.35	11.21
EL	18.46	19.16	16.40	14.55	14.99	15.62
ES	85.40	91.45	86.98	78.54	84.61	82.95
FR	156.55	161.51	155.50	141.14	152.00	143.15
HR	6.58	7.73	7.29	6.96	7.30	6.91
IT	128.77	131.73	118.66	109.28	120.35	112.02
CY	1.47	1.69	1.66	1.57	1.62	1.67
LV	3.26	4.06	3.97	3.87	4.07	3.88
LT	4.25	5.42	6.65	6.43	6.68	6.02
LU	3.24	3.93	3.83	3.30	3.47	3.05
HU	17.21	18.86	19.94	19.68	21.18	19.72
MT	0.32	0.42	0.56	0.51	0.54	0.60
NL	58.54	64.53	56.26	55.23	56.43	49.45
AT	23.58	27.77	28.34	26.95	28.56	26.77
PL	57.13	70.38	77.74	77.11	80.49	76.37
PT	19.54	18.98	17.58	16.39	16.94	17.17
RO	24.12	24.80	25.07	25.09	26.74	24.75
SI	4.79	5.28	5.06	4.60	4.93	4.87
SK	11.68	12.19	11.27	10.82	11.81	11.06
FI	23.73	26.31	25.72	24.70	25.70	24.28
SE	34.91	35.15	33.64	32.73	34.27	32.44

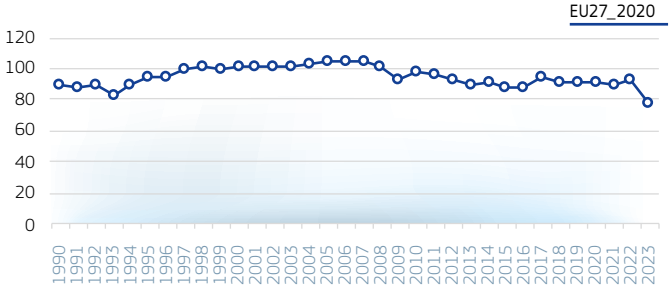
source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.5.2 Final Non-Energy Consumption

Total

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	101.4	98.3	90.5	89.9	92.2	77.5
Index2000	100%	97%	89%	89%	91%	76%
BE	7.00	7.05	7.29	7.14	7.57	6.54
BG	0.98	0.42	0.46	0.47	0.52	0.41
CZ	2.14	2.88	2.97	2.48	2.91	2.82
DK	0.30	0.26	0.20	0.23	0.22	0.21
DE	25.30	22.58	21.65	21.35	23.36	19.54
EE	0.15	0.09	0.12	0.18	0.16	0.13
IE	0.68	0.34	0.24	0.23	0.38	0.23
EL	0.73	1.11	0.92	0.82	0.74	0.45
ES	9.49	7.11	5.35	5.80	5.60	4.85
FR	16.95	13.93	13.42	12.61	13.28	10.46
HR	0.66	0.60	0.57	0.53	0.41	0.19
IT	8.43	9.56	7.00	6.77	5.85	5.66
CY	0.09	0.09	0.04	0.04	0.05	0.04
LV	0.07	0.07	0.09	0.10	0.11	0.09
LT	0.66	0.66	1.20	1.15	1.02	0.64
LU	0.05	0.03	0.04	0.03	0.03	0.03
HU	1.59	1.97	2.12	2.23	2.42	1.85
MT	0.00	0.01	0.02	0.01	0.01	0.01
NL	11.33	14.37	12.01	12.85	12.82	10.31
AT	1.72	1.81	2.12	2.08	2.15	1.78
PL	4.37	4.97	5.60	5.79	5.24	5.51
PT	2.42	1.73	1.15	1.18	1.26	0.97
RO	1.89	2.06	1.14	1.29	1.20	0.66
SI	0.24	0.21	0.16	0.15	0.15	0.11
SK	1.38	1.05	1.00	1.22	1.29	1.13
FI	1.04	1.22	1.38	1.49	1.34	1.38
SE	1.75	2.12	2.30	1.71	2.08	1.49

Final non-energy consumption – total



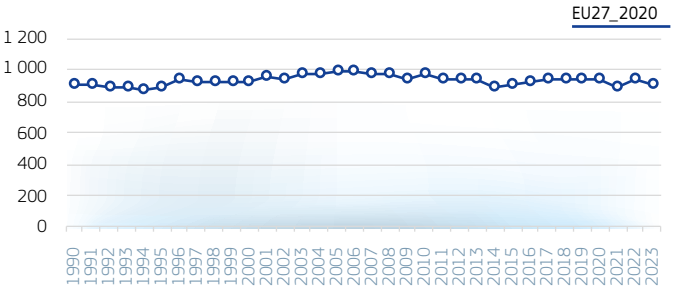
source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.5.3 Final energy consumption

Total

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	926.1	973.9	939.2	886.3	940.7	903.0
Index2000	100%	105%	101%	96%	102%	98%
BE	33.64	35.41	32.44	30.88	33.04	30.38
BG	8.59	8.70	9.72	9.50	10.17	9.86
CZ	23.99	24.12	24.23	23.77	25.30	24.14
DK	14.02	14.85	13.54	13.07	13.78	13.02
DE	207.17	209.92	200.80	194.25	197.57	189.70
EE	2.41	2.88	2.83	2.73	2.79	2.72
IE	10.20	11.19	11.31	10.84	11.04	10.99
EL	17.91	18.37	15.39	14.47	14.91	15.42
ES	76.34	85.50	82.20	73.12	79.23	78.64
FR	145.13	146.26	140.06	128.34	140.20	134.06
HR	5.92	7.13	6.73	6.43	6.89	6.72
IT	119.74	123.05	113.12	103.06	114.72	110.78
CY	1.37	1.65	1.63	1.53	1.58	1.61
LV	3.23	4.00	3.92	3.80	3.98	3.82
LT	3.74	4.76	5.46	5.28	5.66	5.38
LU	3.18	3.90	3.79	3.27	3.44	3.03
HU	15.63	16.88	17.97	17.61	18.79	17.94
MT	0.32	0.40	0.55	0.50	0.53	0.59
NL	47.60	50.77	44.08	41.87	43.26	39.37
AT	21.81	25.96	26.22	24.87	26.41	24.99
PL	53.56	65.26	71.85	70.18	74.14	70.85
PT	17.21	17.27	16.35	15.16	15.77	16.17
RO	21.95	22.04	23.71	23.47	25.28	23.92
SI	4.54	5.05	4.88	4.45	4.77	4.76
SK	9.93	11.09	10.24	9.61	10.51	9.92
FI	23.28	25.04	24.83	23.25	24.81	23.16
SE	33.67	32.47	31.30	31.02	32.16	31.08

Final energy consumption (Mtoe)



source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.5.3 Final energy consumption

By Fuel

	2023							
Mtoe	Oil and petroleum products	Natural gas	Renewables and biofuels	Solid fossil fuels	Waste, non-renewable	Electricity	Heat	Manufactured gases, peat & products
EU27_2020	326.6	172.0	110.5	14.6	4.8	200.3	40.2	4.5
Share - %	36.2%	19.0%	12.2%	1.6%	0.5%	22.2%	4.4%	0.5%
BE	11.91	8.12	2.52	0.28	0.14	6.36	0.34	0.2
BG	3.74	1.02	1.33	0.24	0.04	2.61	0.54	0.0
CZ	7.11	4.21	3.38	1.10	0.23	4.79	1.73	0.2
DK	4.75	1.31	1.64	0.09	0.03	2.62	2.56	0.0
DE	61.59	46.48	17.49	3.12	1.21	39.00	8.51	2.3
EE	0.94	0.16	0.45	0.00	0.00	0.52	0.48	0.0
IE	5.61	1.66	0.63	0.13	0.07	2.71	0.00	0.1
EL	8.15	1.07	1.79	0.06	0.00	3.94	0.03	0.0
ES	37.14	12.85	7.85	0.37	0.21	19.15	0.00	0.1
FR	50.53	22.54	16.65	0.58	0.49	34.19	3.59	0.0
HR	3.11	1.02	1.05	0.07	0.05	1.40	0.23	0.0
IT	40.97	29.47	11.43	0.30	0.31	23.98	1.43	0.1
CY	0.90	0.00	0.22	0.03	0.05	0.42	0.00	0.0
LV	1.33	0.28	1.03	0.01	0.05	0.54	0.52	0.0
LT	2.20	0.57	0.85	0.10	0.01	0.88	0.71	0.0
LU	1.63	0.46	0.17	0.02	0.02	0.52	0.11	0.0
HU	5.50	4.51	2.03	0.08	0.09	3.45	0.86	0.0
MT	0.32	0.00	0.04	0.00	0.00	0.23	0.00	0.0
NL	12.46	12.74	2.18	0.10	0.05	8.75	1.64	0.3
AT	7.96	3.87	4.52	0.23	0.24	5.32	1.63	0.1
PL	26.43	9.40	8.69	6.76	0.74	11.46	5.20	0.3
PT	7.16	1.64	3.21	0.00	0.09	4.26	0.10	0.0
RO	9.35	5.00	3.83	0.32	0.33	3.56	0.84	0.1
SI	2.10	0.52	0.64	0.02	0.05	1.06	0.15	0.0
SK	2.77	2.25	1.09	0.22	0.17	1.83	0.47	0.4
FI	4.91	0.55	6.42	0.06	0.05	6.38	3.89	0.2
SE	6.00	0.31	9.37	0.30	0.09	10.35	4.60	0.2

source: Eurostat April 2025
Methodology and Notes: see appendices

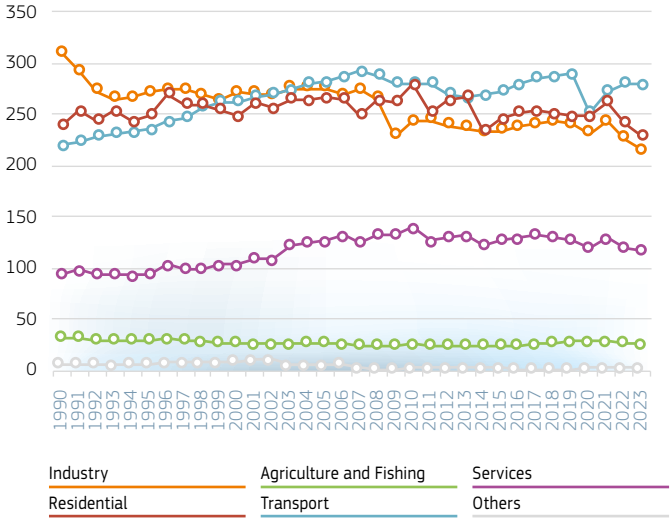
2.5.3 Final Energy Consumption

By Sector

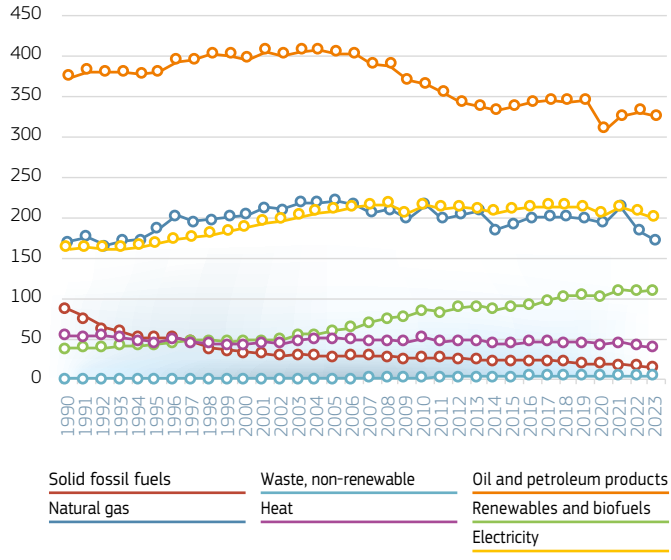
	2022					
Mtoe	Industry	Transport	Residential	Services	Agriculture and Fishing	Others
EU27_2020	214.7	279.3	229.3	117.9	27.8	4.3
Share - %	23.8%	30.9%	25.4%	13.1%	3.1%	0.5%
BE	9.27	8.88	6.96	3.83	0.85	0.04
BG	2.45	3.53	2.05	1.26	0.19	0.03
CZ	5.96	7.03	6.42	2.69	0.60	0.02
DK	2.23	3.96	4.15	1.89	0.67	0.10
DE	50.07	49.20	52.87	23.85	3.67	0.06
EE	0.34	0.85	0.94	0.36	0.08	0.00
IE	2.06	4.12	2.54	1.94	0.29	0.00
EL	2.46	6.13	3.77	2.14	0.29	0.24
ES	18.48	32.20	13.86	10.23	2.65	0.23
FR	23.96	44.09	36.31	18.88	4.52	0.82
HR	1.17	2.49	2.22	0.78	0.26	0.00
IT	23.50	37.11	27.59	16.60	2.97	0.18
CY	0.25	0.68	0.34	0.29	0.04	0.01
LV	0.92	1.02	1.08	0.54	0.19	0.01
LT	0.90	2.14	1.53	0.62	0.11	0.01
LU	0.49	1.51	0.46	0.44	0.02	0.00
HU	3.99	4.93	5.37	1.64	0.57	0.03
MT	0.06	0.27	0.11	0.13	0.02	0.00
NL	11.64	9.50	7.71	6.15	3.09	0.10
AT	6.94	7.39	6.58	2.42	0.53	0.00
PL	13.72	23.72	19.89	8.10	3.58	0.00
PT	4.31	6.17	3.02	2.42	0.51	0.03
RO	4.96	7.70	7.55	2.05	0.54	0.51
SI	1.07	1.83	1.04	0.44	0.07	0.07
SK	2.87	2.62	2.43	1.15	0.12	0.00
FI	9.29	3.77	5.48	2.90	0.73	0.27
SE	11.35	6.49	7.05	4.17	0.62	1.51

2.5.3 Final energy consumption

By Sector – EU27_2020 – 1990-2023 (Mtoe)



Final Energy Consumption – By Fuel – EU27_2020 – 1990-2022 (Mtoe)



source: Eurostat April 2025
Methodology and Notes: see appendices

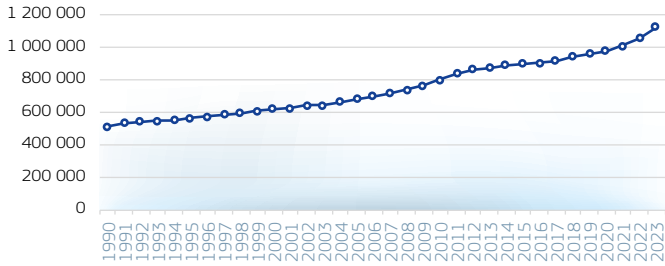
2.6 Electricity

2.6.1 Installed Electricity Capacity

Total

MW	2000	2010	2019	2021	2022	2023
EU27_2020*	613221	790048	946888	993743	1040838	1109680
Index2000	100%	129%	154%	162%	170%	181%
BE	15685	18621	23809	26230	26706	27263
BG	11085	10031	11229	11208	13264	14504
CZ	15323	20073	22011	20965	21110	22072
DK	12316	13438	14970	16191	17589	18202
DE	118884	162924	231489	242648	244788	261357
EE	2800	2751	2746	2410	2543	2854
IE	4709	8142	11096	11364	11669	12476
EL	10904	15312	20489	21957	23988	25833
ES	53922	101747	109688	111014	123099	129473
FR	114518	124138	137170	142067	148761	149945
HR	2067	4103	4712	4873	4974	5371
IT	75510	106610	116435	116846	120438	130060
CY	988	1560	1819	1983	2092	2252
LV	2092	2557	2938	2940	3008	3194
LT	5716	3570	3375	3705	4296	5270
LU	1217	1712	1775	1878	1957	2107
HU	8282	8993	9994	11579	12728	14405
MT	0	572	750	790	712	714
NL	21062	26688	36845	47731	51531	57580
AT	17802	21345	25902	28122	28528	31606
PL	30559	33360	43440	45419	55041	62346
PT	10908	18932	21575	21344	22588	23744
RO	16820	19912	20899	18799	19346	19841
SI	2614	3193	3832	4080	4236	4754
SK	7454	7873	7724	7490	7465	7499
FI	16260	15438	17352	17942	20615	23604
SE	33724	36452	42824	44753	47769	51354

Installed Electricity Capacity – Total – 1990-2023 (MW)



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

source: Eurostat April 2025
Methodology and Notes: see appendices **see appendices**

2.6.1 Installed Electricity Capacity

By Fuel

MW	2023						
	Installed Electricity Capacity	Combustible Fuels	Wind	Hydro	Nuclear	Solar	Others
EU27_2020	1 109 680	380 982	218 860	153 179	100 971	247 145	8 544
Share - %	100.0%	34.3%	19.7%	13.8%	9.1%	22.3%	0.8%
BE	27 263	8 002	5 454	1 431	3 916	8 352	108
BG	14 504	5 535	704	3 350	2 006	2 908	0
CZ	22 072	11 900	343	2 288	4 290	3 251	0
DK	18 202	7 389	7 277	7	0	3 529	0
DE	261 357	100 433	69 486	10 951	4 205	74 882	1 400
EE	2 854	1 691	340	10	0	813	0
IE	12 476	5 906	4 739	529	0	753	549
EL	25 833	10 453	5 232	3 459	0	6 689	0
ES	129 473	39 404	30 868	20 140	7 117	31 884	59
FR	149 945	20 960	23 132	26 325	61 400	17 026	1 103
HR	5 371	1 548	1 160	2 190	0	463	10
IT	130 060	61 016	12 307	22 912	0	29 351	4 474
CY	2 252	1 513	158	0	0	581	0
LV	3 194	1 159	128	1 588	0	319	0
LT	5 270	1 931	1 284	877	0	1 153	25
LU	2 107	175	207	1 330	0	394	0
HU	14 405	6 044	324	60	2 027	5 910	40
MT	714	488	0	0	0	226	0
NL	57 580	24 386	10 734	38	512	21 275	636
AT	31 606	6 353	3 896	14 953	0	6 395	8
PL	62 346	33 038	9 343	2 410	0	17 510	45
PT	23 744	6 121	5 538	8 187	0	3 869	29
RO	19 841	5 728	3 027	6 687	1 411	2 988	0
SI	4 754	1 681	3	1 351	688	1 031	0
SK	7 499	2 353	4	2 530	2 003	593	16
FI	23 604	8 044	6 946	3 169	4 394	1 009	42
SE	51 354	7 730	16 224	16 406	7 001	3 993	0

source: Eurostat April 2025
Methodology and Notes: see appendices

2.6.1 Installed Electricity Capacity*

Renewables

	2023						
MW	Total renewables	Hydro	Wind	Solar Thermal	Solar PV	Geothermal	Tide, Wave and Ocean
EU27_2020	620282	153179	218860	2304	244841	882	217
Share(%)	100.0%	24.7%	35.3%	0.4%	39.5%	0.1%	0.0%
BE	15237	1431	5454	0	8352	0	0
BG	6963	3350	704	0	2908	0	0
CZ	5882	2288	343	0	3251	0	0
DK	10813	7	7277	0	3529	0	0
DE	155371	10951	69486	0	74882	52	0
EE	1163	10	340	0	813	0	0
IE	6021	529	4739	0	753	0	0
EL	15379	3459	5232	0	6689	0	0
ES	82897	20140	30868	2304	29580	0	5
FR	66711	26325	23132	0	17026	16	212
HR	3823	2190	1160	0	463	10	0
IT	65342	22912	12307	0	29351	772	0
CY	738	0	158	0	581	0	0
LV	2035	1588	128	0	319	0	0
LT	3314	877	1284	0	1153	0	0
LU	1932	1330	207	0	394	0	0
HU	6297	60	324	0	5910	3	0
MT	226	0	0	0	226	0	0
NL	32046	38	10734	0	21275	0	0
AT	25244	14953	3896	0	6395	0	0
PL	29264	2410	9343	0	17510	0	0
PT	17623	8187	5538	0	3869	29	0
RO	12702	6687	3027	0	2988	0	0
SI	2385	1351	3	0	1031	0	0
SK	3127	2530	4	0	593	0	0
FI	11124	3169	6946	0	1009	0	0
SE	36623	16406	16224	0	3993	0	0

* Net maximum capacity

source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.6.2 Gross Electricity Generation

Total

TWh	2000	2010	2019	2021	2022	2023
EU27_2020	2658,3	2984,1	2907,2	2916,1	2822,9	2748,6
Index2000	100%	112%	109%	110%	106%	103%
BE	84.01	94.61	93.64	100.48	95.95	83.67
BG	40.92	46.65	44.28	47.57	50.50	50.50
CZ	73.46	85.90	87.04	85.02	84.85	77.00
DK	36.05	38.86	29.52	33.05	35.12	33.73
DE	576.54	633.12	606.92	592.80	578.95	511.88
EE	8.51	12.96	7.62	7.20	8.94	5.75
IE	23.98	28.40	31.12	32.03	34.05	31.85
EL	53.84	57.40	48.63	54.72	52.67	49.92
ES	224.47	301.53	273.26	274.31	292.45	285.88
FR	539.95	569.29	570.72	555.13	474.65	524.65
HR	11.28	14.90	12.76	15.21	14.22	17.54
IT	276.64	302.06	293.85	289.07	283.96	264.72
CY	3.37	5.32	5.14	5.12	5.27	5.33
LV	4.14	6.63	6.44	5.85	5.03	6.39
LT	11.43	5.75	3.97	5.08	4.78	5.98
LU	1.17	4.59	1.91	2.21	2.26	2.53
HU	35.19	37.37	34.29	36.12	35.80	35.55
MT	1.92	2.11	2.06	2.21	2.29	2.34
NL	89.63	119.27	121.41	122.17	121.57	121.33
AT	61.25	71.13	74.23	70.89	69.19	74.46
PL	145.18	157.66	163.99	179.63	179.75	167.36
PT	43.76	54.09	53.15	50.98	48.81	49.04
RO	51.56	60.98	59.62	59.47	56.00	57.98
SI	13.62	16.44	16.10	15.88	13.62	15.88
SK	31.16	27.86	28.43	30.02	26.84	29.90
FI	69.97	80.67	68.65	72.12	72.19	81.54
SE	145.27	148.55	168.44	171.80	173.16	166.09

source: Eurostat April 2025
Methodology and Notes: see appendices

2.6.2 Gross Electricity Generation

By Fuel

	2023						
TWh	Gross Electricity Generation	Solid fossil fuels, peat and products, oil shale and oil sands	Oil and petroleum products	Natural gas and manufactured gas	Nuclear	Renewables and biofuel	Wastes non-RES
EU27_2020	2748.6	322.6	48.4	482.1	619.6	1218.5	20.2
Share - %	100.0%	11.7%	1.8%	17.5%	22.5%	44.3%	0.7%
BE	83.67	0.0	0.20	20.08	32.93	27.47	1.29
BG	50.50	21.8	0.50	2.05	16.46	9.64	0.00
CZ	77.00	29.9	0.09	4.12	30.41	11.15	0.12
DK	33.73	2.5	0.24	1.00	0.00	29.21	0.76
DE	511.88	125.0	5.37	90.80	7.22	270.11	6.42
EE	5.75	2.0	0.02	0.86	0.00	2.81	0.09
IE	31.85	1.4	0.23	15.35	0.00	14.28	0.33
EL	49.92	4.6	4.69	15.98	0.00	24.39	0.04
ES	285.88	3.6	9.29	65.10	56.87	143.77	0.84
FR	524.65	2.0	6.18	30.93	338.20	139.43	2.25
HR	17.54	1.3	0.04	3.86	0.00	12.23	0.00
IT	264.72	13.2	10.19	120.14	0.00	116.58	2.40
CY	5.33	0.0	4.24	0.00	0.00	1.09	0.00
LV	6.39	0.0	0.00	1.42	0.00	4.96	0.00
LT	5.98	0.0	0.21	0.58	0.00	4.44	0.18
LU	2.53	0.0	0.00	0.09	0.00	1.24	0.06
HU	35.55	2.5	0.06	7.30	15.92	9.37	0.30
MT	2.34	0.0	0.02	2.01	0.00	0.32	0.00
NL	121.33	8.7	1.53	47.95	3.99	56.78	1.81
AT	74.46	0.0	0.78	9.40	0.00	59.66	0.73
PL	167.36	98.8	2.01	18.25	0.00	45.85	0.57
PT	49.04	0.0	1.24	10.42	0.00	34.35	0.21
RO	57.98	8.1	0.68	9.18	11.19	28.36	0.00
SI	15.88	3.1	0.01	0.50	5.60	6.31	0.01
SK	29.90	1.2	0.41	2.74	18.33	6.71	0.10
FI	81.54	2.7	0.23	1.33	34.31	42.30	0.43
SE	166.09	0.1	0.20	0.74	48.47	115.25	1.31

source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.6.2 Gross Electricity Generation

Renewables

TWh	2023							
	Renewables and biofuels	Wind	Hydro	Solar	Solid & liquid biofuels, renewable waste	Biogases	Geothermal	Tide, Wave and Ocean
EU27_2020	1218.5	478.1	329.9	252.1	99.9	51.8	6.3	0.5
Share - %	100.0%	39.2%	27.1%	20.7%	8.2%	4.2%	0.5%	0.0%
BE	27.47	15.44	0.41	7.82	2.76	1.05	0.00	0.00
BG	9.64	1.50	3.80	2.09	2.05	0.19	0.00	0.00
CZ	11.15	0.70	2.36	2.89	2.59	2.60	0.00	0.00
DK	29.21	19.39	0.02	3.36	5.92	0.52	0.00	0.00
DE	270.11	140.54	19.89	63.58	15.81	30.10	0.20	0.00
EE	2.81	0.68	0.02	0.72	1.37	0.00	0.00	0.00
IE	14.28	11.86	0.94	0.65	0.68	0.15	0.00	0.00
EL	24.39	11.02	3.82	8.89	0.05	0.60	0.00	0.00
ES	143.77	64.28	25.00	48.59	4.89	1.01	0.00	0.01
FR	139.43	50.48	56.66	21.82	6.81	3.09	0.13	0.45
HR	12.23	2.59	8.16	0.41	0.71	0.34	0.02	0.00
IT	116.58	23.64	40.52	30.71	8.53	7.48	5.69	0.00
CY	1.09	0.21	0.00	0.83	0.00	0.05	0.00	0.00
LV	4.96	0.27	3.79	0.24	0.48	0.18	0.00	0.00
LT	4.44	2.54	0.45	0.69	0.65	0.12	0.00	0.00
LU	1.24	0.50	0.09	0.29	0.32	0.04	0.00	0.00
HU	9.37	0.65	0.22	6.93	1.24	0.32	0.02	0.00
MT	0.32	0.00	0.00	0.31	0.00	0.01	0.00	0.00
NL	56.78	29.53	0.07	19.58	6.91	0.70	0.00	0.00
AT	59.66	8.04	40.67	6.39	3.88	0.67	0.00	0.00
PL	45.85	24.18	2.41	11.11	6.68	1.48	0.00	0.00
PT	34.35	13.15	12.04	5.16	3.55	0.25	0.21	0.00
RO	28.36	7.55	18.14	2.23	0.38	0.07	0.00	0.00
SI	6.31	0.01	5.02	0.98	0.20	0.09	0.00	0.00
SK	6.71	0.00	4.69	0.61	1.01	0.41	0.00	0.00
FI	42.30	15.04	15.20	0.72	11.08	0.26	0.00	0.00
SE	115.25	34.25	66.19	3.11	11.69	0.01	0.00	0.00

source: Eurostat April 2025
Methodology and Notes: see appendices

2.6.2 Gross Electricity Generation

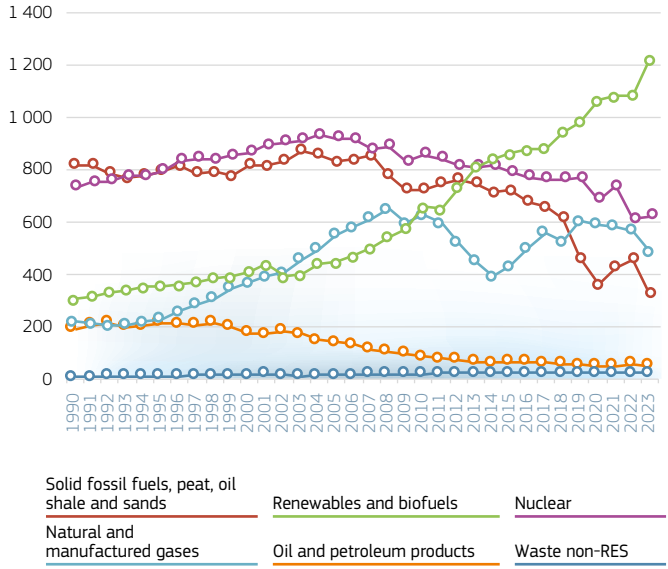
EU27_2020 by Fuel

Share of Total (%)	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	13.3	1.0
1991	35.1	8.8	9.1	32.3	13.6	1.1
1992	34.0	9.2	8.7	32.6	14.3	1.2
1993	33.1	8.6	8.9	33.6	14.7	1.2
1994	33.2	8.6	9.2	32.9	15.0	1.1
1995	32.9	8.8	9.5	32.9	14.6	1.3
1996	32.5	8.4	10.2	33.3	14.2	1.3
1997	31.2	8.1	11.2	33.5	14.6	1.3
1998	30.8	8.2	11.9	32.6	15.0	1.4
1999	29.9	7.6	13.3	32.8	14.9	1.5
2000	30.6	6.5	13.6	32.3	15.3	1.6
2001	29.6	6.2	14.1	32.5	16.0	1.6
2002	30.1	6.6	14.6	32.7	14.1	1.8
2003	30.6	5.9	16.0	32.0	14.0	1.6
2004	29.4	4.9	16.9	31.9	15.1	1.7
2005	28.2	4.7	18.7	31.3	15.2	1.9
2006	28.1	4.4	19.4	30.7	15.7	1.7
2007	28.5	3.7	20.4	29.2	16.6	1.7
2008	25.9	3.4	21.6	29.5	18.0	1.6
2009	25.3	3.3	20.7	29.0	20.1	1.7
2010	24.2	2.8	20.8	28.6	21.9	1.7
2011	25.3	2.5	20.1	28.5	21.9	1.7
2012	25.8	2.5	17.6	27.6	24.8	1.7
2013	25.5	2.2	15.3	27.6	27.6	1.8
2014	24.8	2.1	13.6	28.4	29.3	1.8
2015	24.7	2.2	14.7	27.1	29.5	1.8
2016	23.0	2.1	17.0	26.2	29.8	1.8
2017	22.1	2.0	18.8	25.6	29.6	1.9
2018	20.8	1.9	17.8	25.9	31.9	1.8
2019	15.8	1.8	20.6	26.3	33.6	1.8
2020	12.8	1.7	21.0	24.5	38.0	1.9
2021	14.6	1.6	19.9	25.1	37.0	1.8
2022	16.2	2.0	20.0	21.6	38.3	2.0
2023	11.7	1.8	17.5	22.5	44.3	2.1

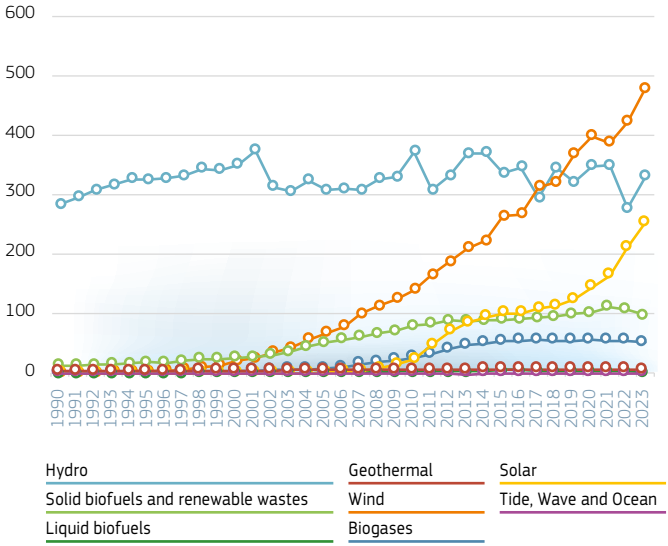
source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.6.2 Gross Electricity Generation

EU27_2020 – by Fuel – All Fuels – 1990-2023 (TWh)



EU27_2020 – By Fuel – Gross Electricity Generation, By Fuel: Renewables – 1990-2022 (TWh)



source: Eurostat April 2025
Methodology and Notes: see appendices

2.6.3 Market Share of the Largest Electricity Producer

%	2000	2010	2019	2021	2022	2023
BE	91.1	79.1	55.2	56.0	52.0	48.0
BG			39.0	36.0	34.0	42.0
CZ	69.2	73.0	69.0	63.0	60.0	64.0
DK	36.0	46.0	28.1	31.0	25.0	23.0
DE	34.0	28.4	26.0	26.0	26.0	23.0
EE	91.0	89.0	67.4	64.0	69.0	55.0
IE	97.0	34.0	28.0	41.0	38.0	31.0
EL	97.0	85.1	49.4	45.0	39.0	33.0
ES	42.4	24.0	22.4	24.0	19.0	23.0
FR	90.2	86.5	79.8	79.0	72.0	74.0
HR		88.0	77.8	75.7	74.0	78.0
IT	46.7	28.0	16.0	17.0	18.0	17.0
CY	99.6	100.0	92.0	88.0	88.0	85.0
LV	95.8	88.0	66.6	62.0	56.0	66.0
LT	72.8	35.4	15.5	17.0	12.0	9.0
LU		85.4	18.7	20.0	20.0	18.0
HU	41.3	42.1	56.3	63.0	63.0	63.0
MT	100.0	100.0	37.0	37.4	37.0	37.0
NL			0.0		0.0	0.0
AT	32.6		0.0		0.0	0.0
PL	19.5	17.4	18.4	17.4	15.0	13.0
PT	58.5	47.2	37.7	26.0	23.0	23.0
RO		33.6	26.7	30.0	25.0	26.0
SI		56.3	50.3	51.0	49.0	49.0
SK	85.1	80.9	66.1	64.4	70.0	73.0
FI	23.3	26.6	22.0	21.0	24.0	32.0
SE	49.5	42.0	18.0	19.0	19.0	18.0

source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.7 Solar and wind Energy

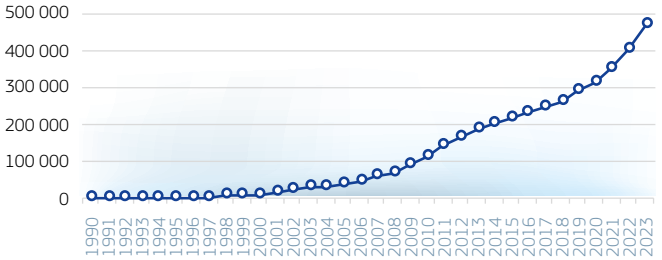
2.7.1 Solar and wind Energy Cumulative Capacity

Total

MW	2000	2010	2019	2021	2022	2023
EU27_2020	12472	109438	287117	351873	400340	466005
Index2000	100%	877%	2302%	2821%	3210%	3736%
BE	14	1744	8387	10882	12085	13806
BG	0	513	1748	1979	2441	3612
CZ	1	1940	2424	2516	2743	3593
DK	2391	3809	7191	8708	10154	10806
DE	6209	44961	109656	123749	127390	144368
EE	0	108	437	711	836	1153
IE	117	1391	4171	4451	4745	5492
EL	226	1500	6423	8927	10132	11920
ES	2216	25305	36701	43927	56315	62752
FR	45	6956	27155	33037	38176	40157
HR	0	79	731	1125	1209	1623
IT	382	9386	31545	33535	36376	41659
CY	0	89	309	472	582	738
LV	2	30	81	84	186	447
LT	0	133	634	922	1513	2437
LU	14	73	296	414	482	602
HU	0	295	1723	3292	4559	6234
MT	0	1	155	194	210	226
NL	460	2327	11712	22468	26057	32009
AT	55	1105	4926	6205	7425	10291
PL	4	1108	7377	14383	20321	26853
PT	84	3930	6124	7073	8184	9407
RO	0	389	4435	4409	4824	6015
SI	0	12	281	464	629	1035
SK	0	22	594	541	553	597
FI	40	204	2506	3682	6341	7955
SE	212	2028	9395	13722	16667	20217

Solar and wind Energy – Cumulative Capacity – Total – 1990-2023 (MW)

EU27_2020



source: Eurostat April 2025
Methodology and Notes: see appendices

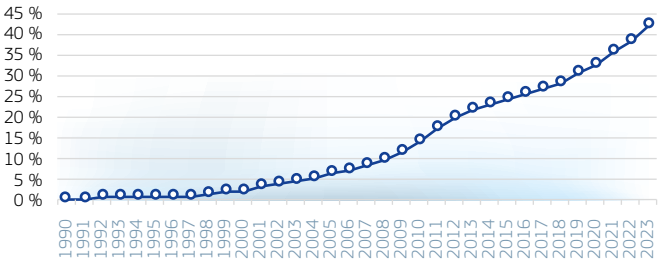
2.7.1 Solar and wind energy – Cumulative Capacity

Share of total installed electricity capacity

%	2000	2010	2019	2021	2022	2023
EU27_2020	2.0	13.9	30.3	35.4	38.5	42.0
BE	0.09	9.36	35.22	41.49	45.25	50.64
BG	0.00	5.11	15.56	17.66	18.40	24.91
CZ	0.01	9.66	11.01	12.00	12.99	16.28
DK	19.41	28.35	48.03	53.78	57.73	59.37
DE	5.22	27.60	47.37	51.00	52.04	55.24
EE	0.00	3.93	15.90	29.50	32.87	40.40
IE	2.47	17.08	37.59	39.17	40.67	44.02
EL	2.07	9.80	31.35	40.65	42.24	46.14
ES	4.11	24.87	33.46	39.57	45.75	48.47
FR	0.04	5.60	19.80	23.25	25.66	26.78
HR	0.00	1.93	15.52	23.09	24.30	30.21
IT	0.51	8.80	27.09	28.70	30.20	32.03
CY	0.00	5.72	16.98	23.81	27.80	32.79
LV	0.10	1.17	2.77	2.87	6.17	14.00
LT	0.00	3.73	18.79	24.88	35.23	46.24
LU	1.15	4.27	16.65	22.02	24.63	28.56
HU	0.00	3.28	17.24	28.43	35.82	43.28
MT	0.00	0.14	20.71	24.61	29.45	31.63
NL	2.18	8.72	31.79	47.07	50.57	55.59
AT	0.31	5.18	19.02	22.06	26.03	32.56
PL	0.01	3.32	16.98	31.67	36.40	43.07
PT	0.77	20.76	28.39	33.14	36.23	39.62
RO	0.00	1.95	21.22	23.45	24.94	30.31
SI	0.00	0.38	7.34	11.38	14.86	21.76
SK	0.00	0.28	7.69	7.22	7.41	7.96
FI	0.25	1.32	14.44	20.52	30.76	33.70
SE	0.63	5.56	21.94	30.66	34.89	39.37

Solar and wind Energy – Cumulative Capacity – Share of Total – 1990-2023 (%)

EU27_2020



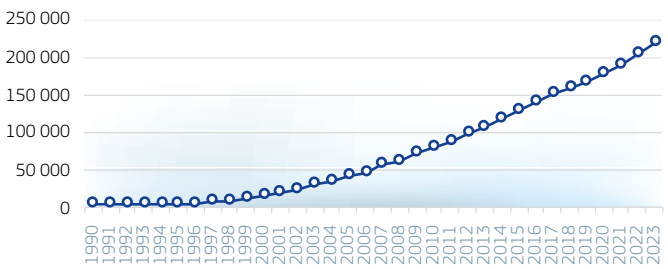
source: Eurostat April 2025
Methodology and Notes: see appendices

2.7.2 Wind Cumulative Installed Capacity

Total

MW	2000	2010	2019	2021	2022	2023
EU27_2020	12297	78981	167140	187817	203619	218860
Index2000	100%	642%	1359%	1527%	1656%	1780%
BE	14	903	3864	4948	5303	5454
BG	0	488	703	704	704	704
CZ	1	213	339	339	339	343
DK	2390	3802	6111	7004	7084	7277
DE	6095	26955	60742	63711	66202	69486
EE	0	108	316	316	316	340
IE	117	1390	4126	4339	4536	4739
EL	226	1298	3589	4649	4702	5232
ES	2206	20693	25590	27908	30114	30868
FR	38	5912	16427	18434	20835	23132
HR	0	79	646	987	987	1160
IT	363	5794	10679	11254	11821	12307
CY	0	82	158	158	158	158
LV	2	30	78	77	82	128
LT	0	133	534	671	946	1284
LU	14	44	136	136	165	207
HU	0	293	323	324	324	324
MT	0	0	0	0	0	0
NL	447	2237	4484	7646	8700	10734
AT	50	1016	3224	3422	3633	3896
PL	4	1108	5838	6967	8150	9343
PT	83	3796	5223	5427	5538	5538
RO	0	389	3038	3015	3015	3027
SI	0	0	3	3	3	3
SK	0	3	4	4	4	4
FI	38	197	2284	3257	5677	6946
SE	209	2017	8681	12116	14279	16224

Wind Cumulative Installed Capacity – Total – 1990-2023 (MW)



source: Eurostat April 2025
Methodology and Notes: see appendices

2.7.2 Wind Cumulative Installed Capacity

Share of total installed electricity capacity

%	2000	2010	2019	2021	2022	2023
EU27_2020	2.0	10.0	17.7	18.9	19.6	19.7
BE	0.1	4.9	16.2	18.9	19.9	20.0
BG	0.0	4.9	6.3	6.3	5.3	4.9
CZ	0.0	1.1	1.5	1.6	1.6	1.6
DK	19.4	28.3	40.8	43.3	40.3	40.0
DE	5.1	16.5	26.2	26.3	27.0	26.6
EE	0.0	3.9	11.5	13.1	12.4	11.9
IE	2.5	17.1	37.2	38.2	38.9	38.0
EL	2.1	8.5	17.5	21.2	19.6	20.3
ES	4.1	20.3	23.3	25.1	24.5	23.8
FR	0.0	4.8	12.0	13.0	14.0	15.4
HR	0.0	1.9	13.7	20.3	19.8	21.6
IT	0.5	5.4	9.2	9.6	9.8	9.5
CY	0.0	5.3	8.7	7.9	7.5	7.0
LV	0.1	1.2	2.7	2.6	2.7	4.0
LT	0.0	3.7	15.8	18.1	22.0	24.4
LU	1.2	2.6	7.7	7.3	8.4	9.8
HU	0.0	3.3	3.2	2.8	2.5	2.2
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	2.1	8.4	12.2	16.0	16.9	18.6
AT	0.3	4.8	12.4	12.2	12.7	12.3
PL	0.0	3.3	13.4	15.3	14.6	15.0
PT	0.8	20.1	24.2	25.4	24.5	23.3
RO	0.0	2.0	14.5	16.0	15.6	15.3
SI	0.0	0.0	0.1	0.1	0.1	0.1
SK	0.0	0.0	0.1	0.1	0.1	0.1
FI	0.2	1.3	13.2	18.2	27.5	29.4
SE	0.6	5.5	20.3	27.1	29.9	31.6

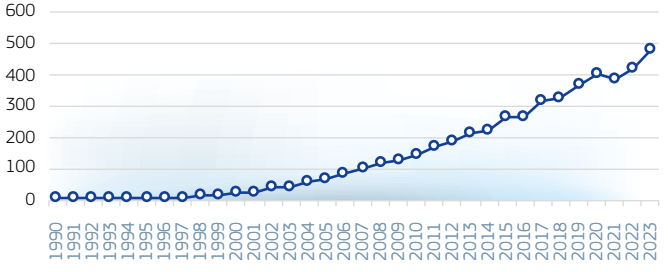
source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.7.3 Wind Gross Electricity Production

Total

TWh	2000	2010	2019	2021	2022	2023
EU27_2020	21.3	139.9	367.3	387.0	421.9	478.1
Index2000	100%	657%	1726%	1818%	1982%	2247%
BE	0.0	1.3	9.8	12.0	12.4	15.4
BG	0.0	0.7	1.3	1.4	1.5	1.5
CZ	0.0	0.3	0.7	0.6	0.6	0.7
DK	4.2	7.8	16.1	16.1	19.0	19.4
DE	9.4	38.5	125.9	114.2	124.8	140.5
EE	0.0	0.3	0.7	0.7	0.7	0.7
IE	0.2	2.9	10.2	9.9	11.4	11.9
EL	0.5	2.7	7.3	10.5	10.9	11.0
ES	4.7	44.3	55.6	62.1	62.8	64.3
FR	0.0	9.9	34.7	37.1	38.2	50.5
HR	0.0	0.1	1.5	2.1	2.1	2.6
IT	0.6	9.1	20.2	20.9	20.5	23.6
CY	0.0	0.0	0.2	0.2	0.2	0.2
LV	0.0	0.0	0.2	0.1	0.2	0.3
LT	0.0	0.2	1.5	1.4	1.5	2.5
LU	0.0	0.1	0.3	0.3	0.3	0.5
HU	0.0	0.5	0.7	0.7	0.6	0.6
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	0.8	4.0	11.5	18.1	21.6	29.5
AT	0.1	2.1	7.5	6.7	7.2	8.0
PL	0.0	1.7	15.1	16.2	19.8	24.2
PT	0.2	9.2	13.7	13.2	13.2	13.1
RO	0.0	0.3	6.8	6.6	7.0	7.5
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	0.3	6.0	8.5	12.0	15.0
SE	0.5	3.5	19.8	27.2	33.3	34.2

WIND GROSS ELECTRICITY PRODUCTION – TOTAL – 1990-2022



source: Eurostat April 2025
Methodology and Notes: see appendices

2.7.4 Wind penetration level

in total gross electricity generation

%	2000	2010	2019	2021	2022	2023
EU27_2020	0.8	4.7	12.6	13.3	14.9	17.4
BE	0.0	1.4	10.4	11.9	12.9	18.5
BG	0.0	1.5	3.0	3.0	3.0	3.0
CZ	0.0	0.4	0.8	0.7	0.8	0.9
DK	11.8	20.1	54.7	48.6	54.2	57.5
DE	1.6	6.1	20.7	19.3	21.6	27.5
EE	0.0	2.1	9.0	10.2	7.5	11.9
IE	1.0	10.1	32.7	31.0	33.5	37.2
EL	0.8	4.7	14.9	19.2	20.7	22.1
ES	2.1	14.7	20.4	22.6	21.5	22.5
FR	0.0	1.7	6.1	6.7	8.0	9.6
HR	0.0	0.9	11.5	13.6	15.0	14.7
IT	0.2	3.0	6.9	7.2	7.2	8.9
CY	0.0	0.6	4.6	4.8	4.3	3.9
LV	0.1	0.7	2.4	2.4	3.8	4.2
LT	0.0	3.9	37.8	26.8	31.6	42.4
LU	2.1	1.2	14.7	14.2	13.8	19.6
HU	0.0	1.4	2.1	1.8	1.7	1.8
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	0.9	3.3	9.5	14.8	17.7	24.3
AT	0.1	2.9	10.0	9.5	10.5	10.8
PL	0.0	1.1	9.2	9.0	11.0	14.4
PT	0.4	17.0	25.7	25.9	27.1	26.8
RO	0.0	0.5	11.4	11.1	12.5	13.0
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	0.4	8.8	11.8	16.7	18.4
SE	0.3	2.3	11.8	15.9	19.2	20.6

source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.7.5 Wind Capacity Factor

Annual Average

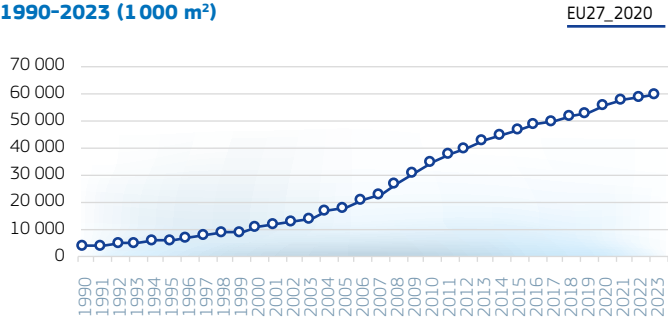
%	2000	2010	2019	2021	2022	2023
EU27_2020	19.8	20.2	25.1	23.5	23.7	24.9
BE	13.0	16.4	28.8	27.7	26.6	32.3
BG			21.4	23.2	24.3	24.3
CZ		18.0	23.5	20.2	21.6	23.4
DK	20.3	23.4	30.2	26.2	30.7	30.4
DE	17.5	16.3	23.7	20.5	21.5	23.1
EE		29.3	24.8	26.5	24.1	22.9
IE	24.3	23.5	28.2	26.2	28.7	28.6
EL	22.8	23.9	23.1	25.7	26.4	24.0
ES	24.5	24.4	24.8	25.4	23.8	23.8
FR	14.5	19.2	24.1	23.0	20.9	24.9
HR		20.1	25.9	23.8	24.7	25.4
IT	17.7	18.0	21.6	21.2	19.8	21.9
CY			17.3	17.9	16.3	15.1
LV		18.7	22.5	20.9	26.3	24.1
LT			32.1	23.2	18.3	22.5
LU	20.2	14.4	23.6	26.3	21.6	27.3
HU		20.8	25.8	23.4	21.5	22.8
MT						
NL	21.2	20.4	29.3	27.1	28.3	31.4
AT	15.2	23.2	26.4	22.5	22.8	23.5
PL	14.3	17.1	29.5	26.6	27.7	29.5
PT	23.1	27.6	29.9	27.8	27.3	27.1
RO			25.5	24.9	26.5	28.5
SI				19.2	19.7	21.9
SK		22.8	17.1	14.3	11.4	11.4
FI	23.4	17.1	30.1	29.8	24.2	24.7
SE	25.0	19.7	26.1	25.7	26.6	24.1

source: Eurostat April 2025
Methodology and Notes: see appendices

2.7.6 Solar Collectors' Surface

1 000 m²	2000	2010	2019	2021	2022	2023
EU27_2020	10759	34428	53090	57723	59140	59648
Index2000	100%	320%	493%	537%	550%	554%
BE	41	375	724	748	756	760
BG	0	194	425	470	516	535
CZ	0	307	555	586	611	630
DK	243	480	1915	2035	2059	2072
DE	3251	13914	19326	22057	22415	22395
EE	0	0	0	0	0	0
IE	4	185	337	345	346	347
EL	2941	4100	4868	5175	5442	5742
ES	405	2312	4068	4360	4449	4525
FR	513	1447	3698	3957	4101	4282
HR	20	92	272	300	313	322
IT	271	2415	4344	4658	4954	5136
CY	0	909	1084	1122	1140	1156
LV	0	0	22	22	22	22
LT	0	0	0	0	0	0
LU	0	29	67	72	73	73
HU	36	140	350	406	418	460
MT	0	40	73	52	46	42
NL	276	576	672	662	662	668
AT	2202	4559	5050	4775	4616	4616
PL	0	656	2696	3196	3406	3068
PT	238	752	1348	1479	1545	1598
RO	0	104	219	249	249	249
SI	101	178	224	216	213	204
SK	0	123	220	249	265	279
FI	10	31	73	88	88	88
SE	207	510	459	445	435	377

Solar thermal collectors – 1990-2023 (1 000 m²)



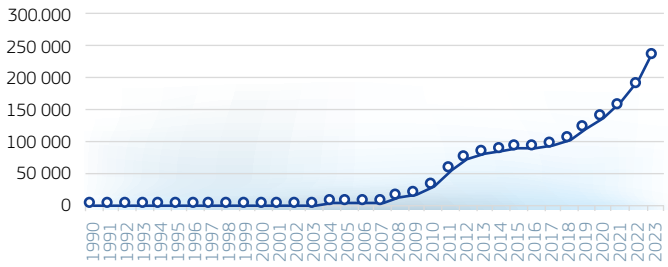
source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.7.7 Solar Installed Capacity

Total

MW	2000	2010	2019	2021	2022	2023
EU27_2020	175	30457	119977	164055	196721	247145
BE	0	840	4523	5934	6781	8352
BG	0	25	1044	1275	1737	2908
CZ	0	1727	2085	2177	2404	3251
DK	1	7	1080	1704	3070	3529
DE	114	18006	48914	60038	61188	74882
EE	0	0	121	395	520	813
IE	0	1	45	112	209	753
EL	0	202	2834	4277	5430	6689
ES	10	4612	11111	16019	26201	31884
FR	7	1044	10729	14603	17341	17026
HR	0	0	85	138	222	463
IT	19	3592	20865	22281	24555	29351
CY	0	7	151	315	424	581
LV	0	0	3	7	103	319
LT	0	0	100	251	567	1153
LU	0	29	160	277	317	394
HU	0	2	1400	2968	4235	5910
MT	0	1	155	194	209	226
NL	13	90	7228	14823	17356	21275
AT	5	89	1702	2783	3792	6395
PL	0	0	1539	7416	12170	17510
PT	1	134	901	1646	2646	3869
RO	0	0	1398	1394	1809	2988
SI	0	12	278	461	626	1031
SK	0	19	590	537	549	593
FI	2	7	222	425	664	1009
SE	3	11	714	1606	2388	3993

Solar Installed Capacity – Total – 1990-2023 (MW)



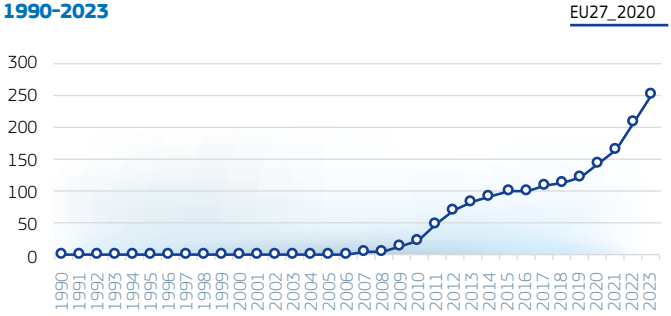
source: Eurostat April 2025
Methodology and Notes: see appendices

2.7.8 Solar Gross Electricity Production

Total

TWh	2000	2010	2019	2021	2022	2023
EU27_2020	0.1	23.2	123.7	164.3	210.6	252.1
BE	0.0	0.6	4.3	5.6	6.9	7.8
BG	0.0	0.0	1.4	1.5	2.1	2.1
CZ	0.0	0.6	2.3	2.2	2.6	2.9
DK	0.0	0.0	1.0	1.3	2.2	3.4
DE	0.1	11.7	44.4	50.5	61.0	63.6
EE	0.0	0.0	0.1	0.4	0.6	0.7
IE	0.0	0.0	0.0	0.1	0.1	0.6
EL	0.0	0.2	4.4	5.3	7.1	8.9
ES	0.0	7.2	15.1	27.1	35.7	48.6
FR	0.0	0.6	12.2	15.4	19.6	21.8
HR	0.0	0.0	0.1	0.1	0.2	0.4
IT	0.0	1.9	23.7	25.0	28.1	30.7
CY	0.0	0.0	0.2	0.5	0.6	0.8
LV	0.0	0.0	0.0	0.0	0.1	0.2
LT	0.0	0.0	0.1	0.2	0.3	0.7
LU	0.0	0.0	0.1	0.2	0.3	0.3
HU	0.0	0.0	1.5	3.8	4.7	6.9
MT	0.0	0.0	0.2	0.3	0.3	0.3
NL	0.0	0.1	5.4	11.3	16.7	19.6
AT	0.0	0.1	1.7	2.8	3.8	6.4
PL	0.0	0.0	0.7	3.9	8.3	11.1
PT	0.0	0.2	1.3	2.2	3.5	5.2
RO	0.0	0.0	1.8	1.7	2.0	2.2
SI	0.0	0.0	0.3	0.5	0.6	1.0
SK	0.0	0.0	0.6	0.7	0.7	0.6
FI	0.0	0.0	0.1	0.3	0.4	0.7
SE	0.0	0.0	0.7	1.5	2.0	3.1

Solar Gross Electricity Production – Total – 1990-2023



source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.7.9 Solar Penetration Level

in Total Gross Electricity Generation

%	2000	2010	2019	2021	2022	2023
EU27_2020	0.0	0.8	4.3	5.6	7.5	9.2
BE	0.0	0.6	4.5	5.6	7.2	9.3
BG	0.0	0.0	3.2	3.1	4.1	4.1
CZ	0.0	0.7	2.7	2.6	3.1	3.8
DK	0.0	0.0	3.3	4.0	6.3	10.0
DE	0.0	1.9	7.3	8.5	10.5	12.4
EE	0.0	0.0	1.0	4.9	6.7	12.5
IE	0.0	0.0	0.1	0.3	0.4	2.0
EL	0.0	0.3	9.1	9.6	13.6	17.8
ES	0.0	2.4	5.5	9.9	12.2	17.0
FR	0.0	0.1	2.1	2.8	4.1	4.2
HR	0.0	0.0	0.7	1.0	1.1	2.4
IT	0.0	0.6	8.1	8.7	9.9	11.6
CY	0.0	0.1	4.2	9.1	11.4	15.6
LV	0.0	0.0	0.0	0.1	1.5	3.7
LT	0.0	0.0	2.3	3.8	7.2	11.5
LU	0.0	0.5	6.8	8.1	12.2	11.6
HU	0.0	0.0	4.4	10.5	13.2	19.5
MT	0.0	0.0	9.5	11.5	12.6	13.2
NL	0.0	0.0	4.4	9.3	13.7	16.1
AT	0.0	0.1	2.3	3.9	5.5	8.6
PL	0.0	0.0	0.4	2.2	4.6	6.6
PT	0.0	0.4	2.5	4.4	7.2	10.5
RO	0.0	0.0	3.0	2.9	3.6	3.8
SI	0.0	0.1	1.9	2.9	4.7	6.2
SK	0.0	0.1	2.1	2.2	2.4	2.0
FI	0.0	0.0	0.2	0.4	0.5	0.9
SE	0.0	0.0	0.4	0.9	1.1	1.9

source: Eurostat April 2025
Methodology and Notes: see appendices

2.8 CHP

2.8.1 CHP Electricity

Generation and Capacity

	CHP Electricity Generation			CHP Electrical Capacity		
	TWh			GW		
	2021	2022	2023	2021	2022	2023
EU27_2020	346.4	313.2	289.0	129.2	129.4	134.9
BE	13.1	11.7	11.2	2.8	2.9	2.7
BG	4.2	3.7	3.5	1.3	1.7	1.4
CZ	10.6	10.1	9.3	8.0	7.8	8.0
DK	10.1	9.8	8.9	4.6	4.5	4.5
DE	90.1	80.3	75.7	50.2	51.3	52.5
EE	1.5	1.4	1.0	0.5	0.5	0.4
IE	2.0	2.1	1.9	0.3	0.3	0.3
EL	2.3	2.4	2.5	0.4	0.4	0.4
ES	27.5	19.3	18.6	4.8	4.8	4.6
FR	18.5	19.3	17.6	7.0	5.7	8.7
HR	2.7	2.6	2.2	0.9	0.9	0.9
IT	34.7	32.6	31.2	7.4	6.9	7.0
CY	0.0	0.0	0.0	0.0	0.0	0.0
LV	2.6	1.8	1.9	1.3	1.2	1.2
LT	1.3	1.3	1.3	0.5	0.6	0.6
LU	0.5	0.4	0.4	0.1	0.1	0.2
HU	5.6	4.6	4.0	1.6	1.6	1.6
MT	0.1	0.1	0.1	0.1	0.1	0.1
NL	31.4	27.4	25.9	8.3	8.8	8.9
AT	11.5	10.7	9.4	5.0	5.2	5.4
PL	30.8	28.6	27.0	10.6	10.4	1082.0
PT	6.1	4.9	4.0	1.3	1.0	1.0
RO	4.7	3.9	2.7	1.5	1.4	1.3
SI	1.2	1.1	0.9	0.4	0.3	1.3
SK		3.3	2.4		1.4	1.2
FI	20.6	17.6	14.2	6.3	6.2	6.3
SE	8.9	12.3	11.3	2.7	3.3	3.6

source: Eurostat, July 2022
Methodology and Notes: see appendices

2.8.2 CHP Heat

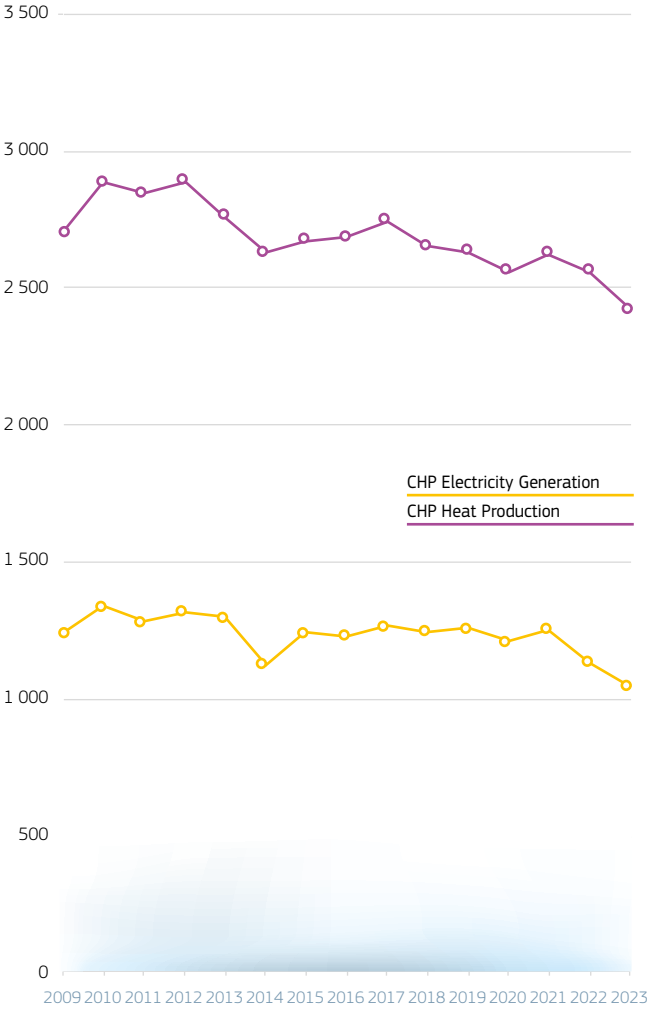
Production and Capacity

	CHP Heat Production			CHP Heat Capacity		
	PJ			GW		
	2021	2022	2023	2021	2022	2023
EU27_2020	2621.1	2557.6	2416.2	242.5	241.2	249.0
BE	95.0	88.0	84.9	5.4	5.7	5.4
BG	49.8	43.5	36.5	4.7	4.7	3.8
CZ	99.0	90.2	84.2	19.3	18.2	18.6
DK	86.9	88.4	86.8	8.4	8.2	7.9
DE	670.2	617.4	567.1	64.6	64.4	65.2
EE	16.5	15.8	12.2	1.5	1.3	1.2
IE	10.9	11.3	10.2	0.6	0.7	0.7
EL	17.0	15.6	17.7	0.8	0.8	0.8
ES	138.9	101.4	98.5	10.4	10.3	9.5
FR	174.4	178.0	172.6	22.0	20.6	24.6
HR	20.0	17.5	16.3	2.1	1.9	1.9
IT	169.9	166.2	163.0	10.4	10.9	10.5
CY	0.2	0.1	0.1	0.0	0.0	0.0
LV	13.1	10.3	10.1	1.2	1.1	1.0
LT	13.7	13.5	14.7	1.3	1.6	1.8
LU	5.3	5.0	4.8	0.3	0.4	0.5
HU	30.1	27.6	25.9	3.3	3.1	3.2
MT	0.1	0.1	0.1	0.0	0.0	0.0
NL	173.4	154.9	143.9	15.6	16.0	16.2
AT	112.2	108.1	99.2	8.4	8.4	8.5
PL	259.6	247.9	235.8	24.4	24.4	23.8
PT	59.3	51.5	47.1	4.8	4.3	4.2
RO	36.1	32.8	21.6	4.2	3.9	3.8
SI	11.2	9.9	8.9	1.0	1.0	1.0
SK		36.1	31.3		3.0	2.9
FI	223.3	199.4	177.5	16.1	16.0	16.8
SE	94.5	227.2	245.3	7.4	13.5	15.4

source: Eurostat, July 2022
Methodology and Notes: see appendices

2.8.3 CHP Electricity and Heat

EU27_2020 – CHP Electricity and Heat Generation (PJ)*



source: Eurostat July 2022

*data before 2009 is not consistent across the EU27
Methodology and Notes: **see appendices**

2.9 Heat*

2.9.1 Gross Heat Generation

Total

PJ	2000	2010	2019	2021	2022	2023
EU27_2020	2090,0	2651,9	2344,5	2312,2	2121,9	2043,1
Index2000	100%	127%	112%	111%	102%	98%
BE	23.2	42.0	30.5	30.4	27.4	22.9
BG	50.8	59.4	38.8	41.0	36.4	35.6
CZ	139.2	148.6	116.4	121.4	110.2	100.8
DK	119.2	150.4	132.0	141.0	129.1	134.2
DE	315.9	515.2	457.9	469.6	429.3	409.5
EE	27.0	25.5	22.0	22.7	23.8	23.9
IE	0.0	0.0	0.0	0.0	0.0	0.0
EL	1.2	1.9	2.2	2.0	1.5	1.4
ES	0.0	0.0	0.0	0.0	0.0	0.0
FR	135.5	153.3	175.9	190.9	183.3	171.1
HR	11.5	12.5	13.2	15.6	14.4	13.9
IT	0.0	205.3	231.4	92.9	86.0	86.5
CY	0.0	0.0	0.1	0.0	0.0	0.0
LV	31.9	28.7	28.6	31.2	27.8	25.8
LT	48.2	48.8	42.8	44.6	36.4	34.7
LU	0.5	3.1	4.0	6.1	5.4	5.1
HU	69.2	53.0	48.4	52.2	46.9	43.0
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	172.4	159.9	113.7	110.8	103.4	93.3
AT	47.9	78.4	83.9	92.4	83.1	79.5
PL	340.7	335.8	287.1	308.4	286.4	268.6
PT	5.6	21.1	20.9	16.7	11.5	9.7
RO	189.7	99.1	61.4	61.2	51.2	48.3
SI	9.4	9.8	9.1	10.1	8.9	8.2
SK	36.8	48.6	31.3	32.5	28.7	26.6
FI	150.6	211.0	185.3	194.2	181.8	182.7
SE	163.8	240.6	207.6	224.5	208.9	217.9

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

source: Eurostat April 2025
Methodology and Notes: see appendices

2.9.1 Gross Heat Generation

By Fuel

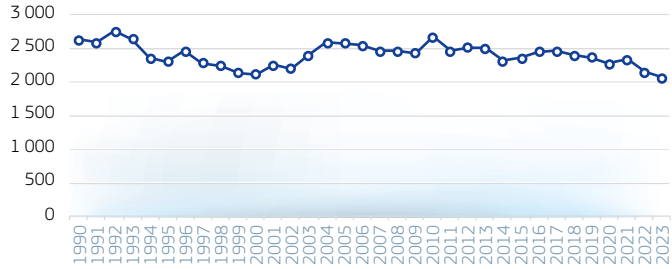
	2023						
PJ	Gross Heat Generation	Solid fossil fuels, peat, oil shale & sands	Oil and petroleum products	Natural gas and manufactured gases	Nuclear	Renewables and biofuels	Wastes non-RES and others
EU27_2020	2043.1	370.8	55.3	664.5	3.8	702.2	131.7
Share - %	100.0%	18.2%	2.7%	32.5%	0.2%	34.4%	6.4%
BE	22.9	0.0	0.0	10.1	0.0	3.9	1.5
BG	35.6	6.1	0.1	20.4	0.5	5.6	0.2
CZ	100.8	49.8	1.4	33.5	1.1	12.2	1.7
DK	134.2	8.3	1.2	10.4	0.0	89.6	13.9
DE	409.5	77.2	6.4	200.6	0.0	78.4	41.2
EE	23.9	1.3	0.6	5.0	0.0	16.0	0.9
IE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EL	1.4	1.1	0.0	0.3	0.0	0.0	0.0
ES	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FR	171.1	2.1	8.3	61.9	0.0	77.1	15.8
HR	13.9	0.0	0.1	9.7	0.0	4.0	0.0
IT	86.5	0.0	0.9	63.2	0.0	16.7	4.7
CY	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LV	25.8	0.0	0.9	8.2	0.0	16.8	0.0
LT	34.7	0.1	1.4	4.3	0.0	24.4	1.5
LU	5.1	0.0	0.0	1.0	0.0	4.0	0.1
HU	43.0	1.0	0.0	30.1	0.4	7.7	1.3
MT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NL	93.3	0.7	9.3	47.6	0.0	20.0	7.6
AT	79.5	0.0	4.0	24.8	0.0	44.6	6.0
PL	268.6	185.0	4.6	49.6	0.0	24.8	3.9
PT	9.7	0.0	0.1	9.6	0.0	0.0	0.0
RO	48.3	5.7	3.4	36.2	0.0	2.9	0.0
SI	8.2	2.8	0.1	3.3	0.0	1.8	0.1
SK	26.6	3.2	0.6	14.2	1.8	6.4	0.3
FI	182.7	25.6	9.1	13.6	0.0	104.8	6.9
SE	217.9	0.9	2.7	7.1	0.0	140.4	24.0

source: Eurostat April 2025
Methodology and Notes: see appendices

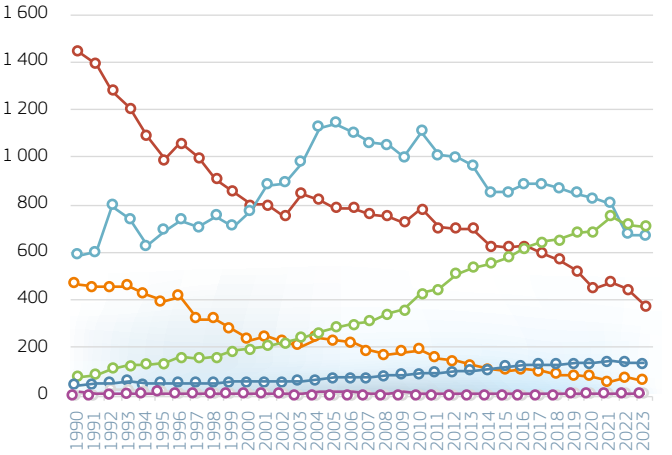
2.9.1 Gross Heat Generation

EU27_2020- Gross Heat Generation - Total - 1990-2023 (PJ)

EU27_2020



EU27_2020 Gross Heat Generation (PJ)



Solid fossil fuels, peat, oil shale and sands
Nuclear
Wastes non-RES
Oil and petroleum products
Renewables and biofuels
Others
Natural gas and manufactured gases

source: Eurostat April 2025
Methodology and Notes: see appendices

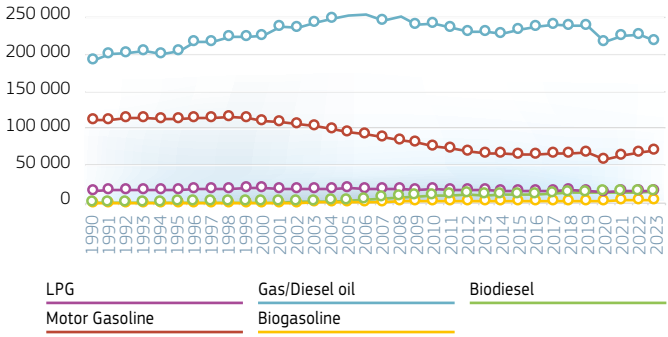
2.10 Transport

2.10.1 Fuels Final Consumption

EU27_2020 - Petroleum Products and Biofuels

ktoe	Final consumption petroleum products	LPG	Motor gasoline	Gas/Diesel oil	Final consumption biofuels	Biogasoline	Biodiesel
1990	321230	16192	111718	193320	6	0	6
1995	336944	17423	113998	205523	218	25	189
2000	355244	19465	110381	225397	713	59	640
2001	366591	19344	108744	238502	840	66	756
2002	363107	19100	107019	236988	1113	159	932
2003	366647	19092	103482	244074	1433	243	1160
2004	369254	19157	100230	249867	1963	306	1613
2005	367905	19409	95746	252751	3270	550	2532
2006	365886	18772	92404	254710	5465	849	3909
2007	353704	18181	89352	246171	7657	1100	5720
2008	355279	18070	84683	252526	9355	1707	7183
2009	339786	17680	81474	240631	11049	2084	8681
2010	337045	18039	76821	242184	12442	2496	9701
2011	328647	17104	74173	237371	12964	2550	10303
2012	317694	16750	69467	231477	13795	2491	11255
2013	315668	16866	67044	231757	12291	2313	9931
2014	311218	16177	66680	228361	13320	2304	10947
2015	315526	16239	65422	233865	13329	2346	10925
2016	320162	16615	65785	237761	13180	2304	10807
2017	324022	16337	66175	241511	14438	2438	11940
2018	322159	16830	66332	238997	16072	2623	13332
2019	323760	16540	67777	239443	16636	2725	13784
2020	291430	15152	58359	217919	16899	2689	14030
2021	306055	15623	63876	226556	17661	3056	14442
2022	310654	15929	67718	227007	17739	3266	14346
2023	304827	15697	70319	218811	18622	3580	14906

EU27_2020 – Fuels Consumption in the Transport Sector – 1990-2023 (ktoe)



source: Eurostat April 2025
Methodology and Notes: see appendices

2.10.2 Biofuels

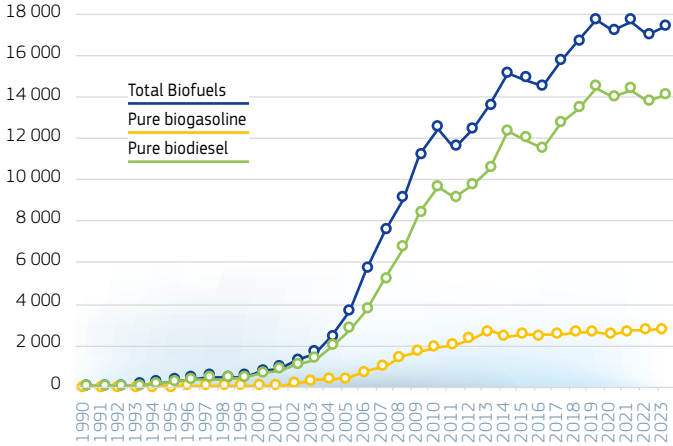
EU27_2020 by Fuel

	Production			Share in Transport Fuels		
	Total Biofuels	Pure biogasoline	Pure biodiesel	of liquid biofuels in total transport liquid fuels	of Biogasoline in Motor Gasoline %	of Biodiesel in Gas/Diesel Oil %
	ktoe			%		
1990	6	0	6	0.0%	0.0%	0.0%
1991	7	0	7	0.0%	0.0%	0.0%
1992	20	2	16	0.0%	0.0%	0.0%
1993	47	18	25	0.0%	0.0%	0.0%
1994	133	25	96	0.0%	0.0%	0.1%
1995	222	25	188	0.1%	0.0%	0.1%
1996	314	39	270	0.1%	0.0%	0.1%
1997	403	54	340	0.1%	0.0%	0.2%
1998	385	63	312	0.1%	0.1%	0.1%
1999	442	59	371	0.1%	0.1%	0.2%
2000	639	60	564	0.2%	0.1%	0.3%
2001	792	71	696	0.2%	0.1%	0.3%
2002	1108	160	918	0.3%	0.1%	0.4%
2003	1460	264	1145	0.4%	0.2%	0.5%
2004	2139	312	1716	0.5%	0.3%	0.6%
2005	3229	383	2445	0.9%	0.6%	1.0%
2006	5036	636	3298	1.5%	0.9%	1.5%
2007	6711	865	4621	2.2%	1.2%	2.3%
2008	8102	1282	5975	2.6%	2.0%	2.8%
2009	9994	1538	7521	3.3%	2.6%	3.6%
2010	11158	1728	8614	3.7%	3.2%	4.0%
2011	10314	1824	8156	3.9%	3.4%	4.3%
2012	11111	2103	8703	4.3%	3.6%	4.9%
2013	12144	2408	9399	3.9%	3.4%	4.3%
2014	13527	2188	11042	4.3%	3.5%	4.8%
2015	13315	2274	10707	4.2%	3.6%	4.7%
2016	12962	2240	10289	4.1%	3.5%	4.5%
2017	14109	2264	11408	4.5%	3.7%	4.9%
2018	14922	2368	12012	5.0%	4.0%	5.6%
2019	15849	2364	12947	5.1%	4.0%	5.8%
2020	15407	2289	12492	5.8%	4.6%	6.4%
2021	15824	2406	12821	5.8%	4.8%	6.4%
2022	15201	2460	12311	5.7%	4.8%	6.3%
2023	15549	2497	12582	6.1%	5.1%	6.8%

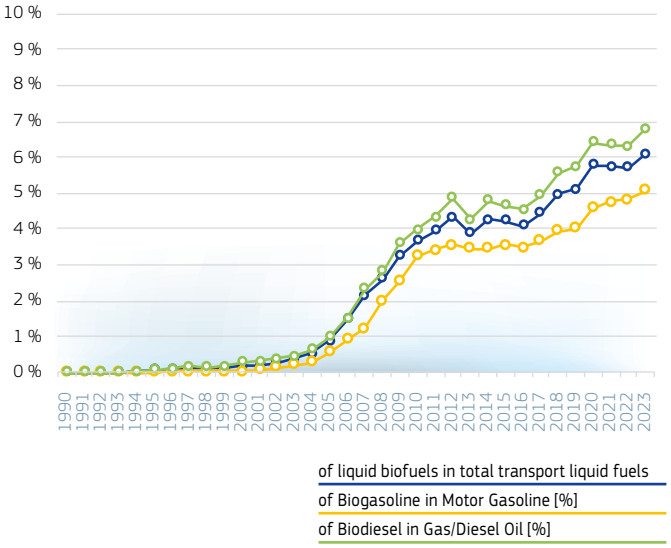
source: Eurostat April 2025
Methodology and Notes: see appendices

2.10.2 Biofuels

EU27-2020 – Production biofuels – 1990-2023 (ktoe)



EU27_2020 – Biofuels Share in Transport LIquid Fuels – 1990-2023 (%)



source: Eurostat April 2025
Methodology and Notes: see appendices

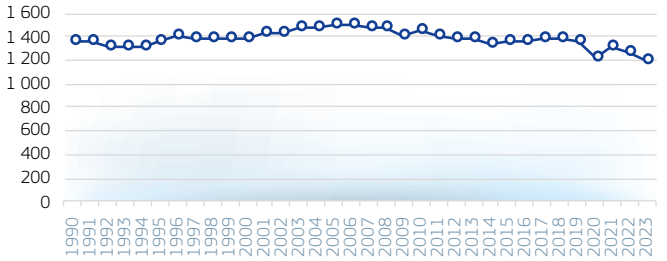
2.11 Energy Efficiency

2.11.1 Primary energy consumption 2020-2030*

All Fuels

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	1396.4	1458.3	1354.4	1313.1	1259.6	1208.5
Index2000	100%	104%	97%	94%	90%	87%
BE	52.4	53.4	48.4	48.7	45.2	42.1
BG	17.7	17.4	18.0	18.6	18.9	16.6
CZ	39.1	42.5	39.7	39.5	38.6	35.5
DK	19.1	19.9	16.9	16.3	15.7	15.4
DE	317.1	315.2	285.2	271.5	261.1	237.2
EE	4.6	5.8	4.8	4.5	4.7	4.1
IE	4.6	5.8	4.8	4.5	4.7	4.1
EL	27.2	27.2	22.3	20.3	20.9	19.9
ES	114.5	123.0	120.6	111.4	113.5	110.1
FR	239.0	254.5	235.5	224.8	205.9	209.6
HR	7.8	8.9	8.2	8.3	8.3	8.5
IT	166.1	167.3	145.9	145.6	139.6	134.8
CY	2.3	2.7	2.5	2.3	2.5	2.5
LV	3.8	4.6	4.6	4.5	4.3	4.3
LT	6.5	6.2	6.3	6.6	6.3	6.3
LU	3.6	4.6	4.5	4.2	3.8	3.7
HU	23.6	24.6	24.6	24.9	23.9	22.1
MT	0.8	0.9	0.9	0.8	0.9	0.9
NL	66.9	71.7	63.7	60.8	56.2	53.8
AT	27.5	32.9	32.3	31.6	30.3	29.3
PL	84.8	96.6	100.2	103.9	98.4	93.3
PT	23.0	22.7	22.1	19.5	20.8	20.7
RO	34.9	32.9	32.1	33.1	31.0	29.9
SI	6.3	7.0	6.5	6.3	6.2	5.9
SK	16.4	17.4	16.0	16.4	15.4	15.3
FI	31.6	35.4	32.1	31.5	30.2	31.3
SE	46.0	48.3	45.8	43.3	42.6	41.4

Primary energy consumption 2020-2030 – 1990-2023 (Mtoe)



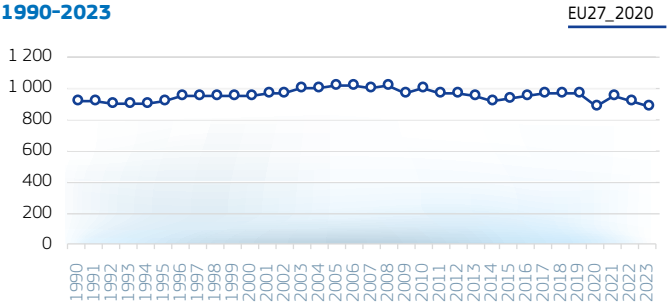
*This indicator should be used also for tracking progress towards Europe 2020/2030 energy efficiency targets. This indicator is in line to the previous Eurostat methodology, which was used to calculate the targets.
source: Eurostat April 2025
Methodology and Notes: see appendices

2.11.2 Final Energy Consumption 2020-2030*

All Fuels

Mtoe	2000	2010	2019	2021	2022	2023
EU27_2020	954.6	1003.6	968.7	947.7	921.5	893.7
Index2000	100%	105%	101%	99%	97%	94%
BE	35.1	36.8	34.0	34.4	31.9	31.3
BG	8.7	8.8	9.9	10.2	9.9	9.6
CZ	24.2	24.4	24.4	25.2	24.0	22.6
DK	14.7	15.5	14.3	13.8	13.3	13.4
DE	213.8	217.4	209.3	202.1	196.9	187.0
EE	2.4	2.9	2.9	2.8	2.8	2.6
IE	2.4	2.9	2.9	2.8	2.8	2.6
EL	18.7	19.1	16.2	15.2	16.1	15.7
ES	79.1	88.6	86.2	80.0	81.1	80.6
FR	150.3	150.4	143.4	139.2	135.2	129.7
HR	6.0	7.2	6.9	7.0	6.9	7.1
IT	122.6	126.2	114.6	113.8	110.9	108.7
CY	1.6	1.9	1.9	1.7	1.8	1.9
LV	3.3	4.1	4.1	4.1	3.9	3.9
LT	3.8	4.8	5.6	5.7	5.4	5.3
LU	3.5	4.3	4.4	4.1	3.7	3.5
HU	15.9	17.1	18.2	18.9	18.1	16.8
MT	0.4	0.5	0.7	0.6	0.7	0.7
NL	50.9	54.1	47.8	45.3	42.1	41.0
AT	22.4	26.5	26.8	26.4	25.1	24.2
PL	53.8	65.7	72.7	74.3	71.3	69.6
PT	17.9	18.1	17.1	15.7	16.7	17.2
RO	22.1	22.2	23.9	25.4	24.0	23.3
SI	4.6	5.1	4.9	4.7	4.7	4.5
SK	10.0	11.1	10.2	10.5	9.9	9.1
FI	23.6	25.6	25.1	24.4	22.9	22.2
SE	34.4	33.2	30.8	31.0	30.2	30.3

Final energy consumption 2020-2030 – 1990-2023



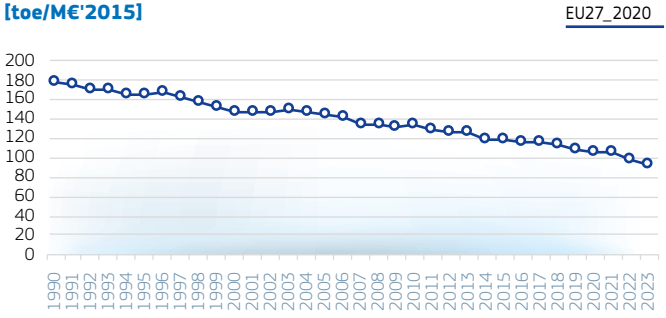
*This indicator should be used also for tracking progress towards Europe 2020/2030 energy efficiency targets. This indicator is in line to the previous Eurostat methodology, which was used to calculate the targets.
source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.11.3 Energy Intensity

All Fuels

toe/M€ '2015	2000	2010	2019	2021	2022	2023
EU27_2020	146	133	109	106	97	93
Index2000	100%	91%	74%	72%	66%	64%
BE	179	154	126	126	111	103
BG	680	418	362	358	349	302
CZ	356	289	219	221	211	194
DK	82	79	58	54	51	49
DE	132	119	93	90	85	77
EE	374	337	200	180	189	171
IE	98	78	44	33	32	33
EL	159	131	127	117	113	106
ES	141	120	106	103	99	93
FR	140	129	107	104	92	93
HR	239	207	170	163	149	150
IT	104	103	90	90	82	78
CY	173	142	115	98	98	97
LV	286	233	176	168	157	153
LT	365	233	177	169	148	149
LU	100	95	76	66	60	59
HU	305	261	200	200	180	172
MT	134	121	67	54	60	58
NL	134	129	99	94	81	79
AT	105	107	93	94	85	83
PL	350	274	204	201	184	171
PT	145	130	120	111	109	104
RO	398	250	169	171	152	145
SI	227	192	150	140	133	124
SK	406	260	190	193	179	173
FI	185	175	150	147	141	146
SE	143	124	101	92	88	87

Energy Intensity – 1990-2023
[toe/M€'2015]



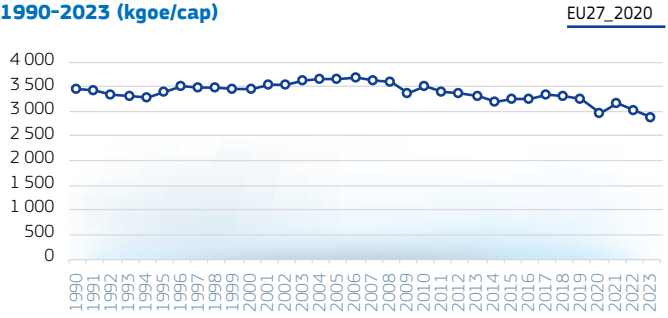
Source: Eurostat, DG Economic and Financial Affairs, April 2025
Methodology and Notes: **see appendices**

2.11.4 Energy consumption per Capita

Gross inland consumption (All Fuels) per Population

kgoe/cap	2000	2010	2019	2021	2022	2023
EU27_2020	3496	3539	3269	3189	3037	2904
Index2000	100%	101%	94%	91%	87%	83%
BE	5805	5597	4898	4918	4502	4185
BG	2275	2414	2802	2952	3018	2673
CZ	4017	4346	4031	4071	3979	3550
DK	3658	3673	2991	2901	2789	2707
DE	4168	4135	3712	3564	3392	3079
EE	3360	4443	3711	3464	3644	3115
IE	3804	3312	3033	2817	2843	2729
EL	2589	2549	2196	2014	2087	2010
ES	3065	2799	2703	2490	2518	2420
FR	4227	4171	3743	3572	3234	3283
HR	1883	2201	2215	2233	2203	2296
IT	3066	2963	2598	2601	2508	2410
CY	3511	3370	2950	2635	2765	2753
LV	1623	2183	2421	2419	2330	2328
LT	2093	2254	2774	2828	2542	2519
LU	8433	9250	7405	6651	5915	5584
HU	2468	2655	2753	2836	2683	2531
MT	2080	2266	1828	1549	1764	1740
NL	4934	5198	4410	4250	3823	3667
AT	3652	4171	3925	3830	3631	3472
PL	2332	2672	2793	2956	2837	2672
PT	2476	2306	2313	2073	2167	2100
RO	1637	1725	1710	1786	1662	1615
SI	3301	3544	3241	3105	3027	2872
SK	3284	3419	3122	3259	3059	3028
FI	6336	6875	6200	6092	5857	5986
SE	5384	5402	4858	4543	4385	4287

Energy per Capita –
1990-2023 (kgoe/cap)



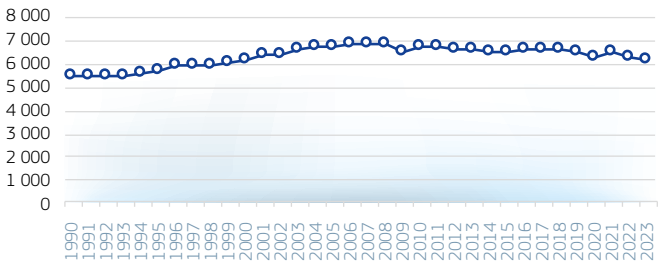
source: Eurostat April 2025
Methodology and Notes: **see appendices**

2.11.5 Final Electricity Consumption per Capita

All Fuels

kWh/cap	2000	2010	2019	2021	2022	2023
EU27_2020	6204	6772	6516	6540	6330	6139
Index2000	100%	109%	105%	105%	102%	99%
BE	8205	8728	8175	8696	8259	7125
BG	4996	6286	6644	7282	7790	7832
CZ	7148	8211	8172	8101	8068	7112
DK	6764	7021	5084	5659	5980	5686
DE	7017	7740	7311	7129	6955	6158
EE	6075	9723	5748	5417	6710	4206
IE	6349	6243	6300	6321	6605	6043
EL	4997	5163	4534	5124	5035	4793
ES	5547	6486	5824	5787	6159	5945
FR	8918	8804	8481	8196	6971	7684
HR	2508	3463	3215	3907	3682	4555
IT	4860	5060	4913	4880	4810	4487
CY	4881	6497	5776	5598	5666	5615
LV	1737	3125	3353	3088	2682	3392
LT	3253	1830	1412	1807	1704	2092
LU	2690	9145	3109	3483	3499	3832
HU	3443	3732	3535	3742	3725	3703
MT	4931	5105	4178	4291	4409	4325
NL	5650	7196	7025	6991	6911	6812
AT	7655	8517	8380	7936	7706	8178
PL	3794	4146	4319	4845	4873	4554
PT	4270	5116	5144	4905	4684	4663
RO	2296	3005	3071	3097	2941	3043
SI	6854	8031	7737	7528	6462	7501
SK	5771	5168	5217	5498	4938	5508
FI	13531	15075	12441	13033	13011	14655
SE	16393	15903	16465	16552	16567	15786

Final Electricity Consumption per Capita – All Fuels – 1990-2023 [kwh/cap]



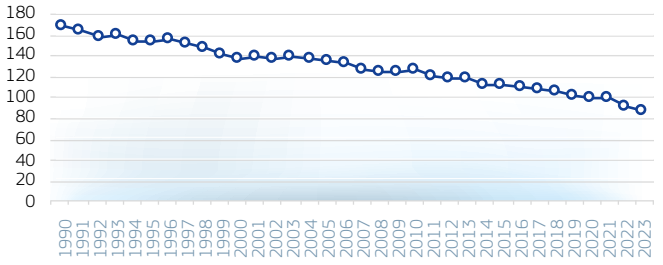
source: Eurostat April 2025
Methodology and Notes: see appendices

2.11.6 Primary Energy Intensity 2020-2030*

All Fuels

toe/M€'2015	2000	2010	2019	2021	2022	2023
EU27_2020	136	125	101	98	90	86
Index2000	100%	91%	74%	72%	66%	63%
BE	158	136	109	108	96	89
BG	644	406	350	345	338	291
CZ	337	270	203	205	195	179
DK	81	78	56	52	49	47
DE	122	111	86	82	78	71
EE	362	332	195	174	184	165
IE	31	30	14	10	10	9
EL	155	126	120	111	108	100
ES	130	114	100	98	94	88
FR	131	122	100	97	86	87
HR	221	193	159	155	145	145
IT	99	97	84	85	77	74
CY	167	137	111	94	94	93
LV	280	230	172	164	154	149
LT	325	203	142	141	131	131
LU	99	95	75	65	60	58
HU	286	242	184	182	167	156
MT	134	120	65	52	58	56
NL	115	107	83	77	68	65
AT	99	101	87	86	79	77
PL	333	261	192	191	173	162
PT	132	121	110	101	100	97
RO	377	236	163	165	149	141
SI	218	186	145	135	129	121
SK	374	245	178	178	166	161
FI	179	168	140	138	131	137
SE	138	119	93	85	82	80

Primary Energy Intensity – All Fuels – 1990-2023 (toe/M€'2015)



* ratio between primary energy consumption 2020-2030 and GDP chain linked 2015

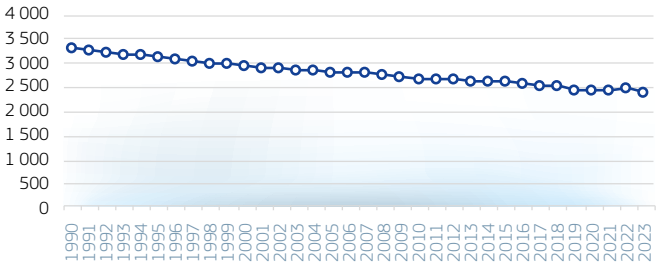
Source: Eurostat, DG Economic and Financial Affairs, April 2025
Methodology and Notes: see appendices **see appendices**

2.11.7 Greenhouse Gas (GHG) Intensity of energy

All Fuels

kg CO_2/toe	2000	2010	2019	2021	2022	2023
EU27_2020	2974	2678	2460	2437	2492	2389
Index2000	100%	90%	83%	82%	84%	80%
BE	2497	2197	2073	1932	1969	1999
BG	3089	3317	2891	2805	2988	2632
CZ	3632	3074	2831	2748	2748	2666
DK	3750	3230	2655	2619	2612	2446
DE	3044	2750	2590	2569	2652	2626
EE	3703	3562	2952	2728	2915	2553
IE	4791	4101	3989	4220	4023	3819
EL	4540	4206	3664	3627	3562	3436
ES	3080	2718	2435	2436	2444	2320
FR	2154	1901	1731	1735	1832	1679
HR	3048	2985	2823	2810	2882	2875
IT	3219	2957	2685	2675	2789	2706
CY	3423	3418	3208	3397	3245	3255
LV	2638	2568	2397	2342	2315	2277
LT	2575	2862	2528	2486	2584	2486
LU	2645	2626	2365	2228	2152	2105
HU	2987	2512	2432	2338	2317	2235
MT	3400	3160	2360	2628	2463	2381
NL	2813	2494	2382	2251	2283	2184
AT	2785	2453	2319	2282	2255	2173
PL	4410	3995	3641	3643	3664	3547
PT	3236	2826	2661	2607	2497	2411
RO	3859	3566	3473	3365	3464	3375
SI	2857	2719	2540	2451	2439	2435
SK	2727	2468	2330	2300	2218	2197
FI	2151	2058	1541	1418	1406	1234
SE	1428	1271	1010	1012	964	984

GHG Intensity of Energy – 1990-2023 (kg CO_2/toe) EU27_2020



Source: EEA, June 2025, Eurostat 2025
Methodology and Notes: see appendices

2.12 Renewable Energy Indicators

2.12.1 Renewable Energy Shares*

Overall and Heating & Cooling

	Overall Renewable share (with aviation cap) [%]**				RES-H&C - Renewable Heating and Cooling [%]			
%	2000	2010	2019	2023	2000	2010	2019	2023
EU27_2020	0.0%	14.4%	19.9%	24.6%	0.0%	17.0%	22.4%	26.2%
BE	0.0%	6.0%	9.9%	14.7%	0.0%	6.7%	8.3%	11.3%
BG	0.0%	13.9%	21.5%	22.5%	0.0%	24.3%	35.4%	34.9%
CZ	0.0%	10.5%	16.2%	18.6%	0.0%	14.1%	22.6%	27.8%
DK	0.0%	21.9%	37.0%	44.4%	0.0%	30.4%	47.3%	54.9%
DE	0.0%	11.7%	17.3%	21.6%	0.0%	12.1%	14.5%	17.1%
EE	0.0%	24.6%	31.7%	41.0%	0.0%	43.2%	52.2%	66.7%
IE	0.0%	5.8%	12.0%	15.3%	0.0%	4.3%	6.3%	7.9%
EL	0.0%	10.1%	19.6%	25.3%	0.0%	18.7%	30.0%	35.5%
ES	0.0%	13.8%	17.9%	24.9%	0.0%	12.5%	17.2%	21.4%
FR	0.0%	12.7%	17.2%	22.3%	0.0%	16.2%	22.4%	29.9%
HR	0.0%	25.1%	28.5%	28.1%	0.0%	32.9%	36.8%	36.2%
IT	0.0%	13.0%	18.2%	19.6%	0.0%	15.6%	19.7%	21.7%
CY	0.0%	6.2%	13.8%	20.2%	0.0%	18.8%	35.1%	42.8%
LV	0.0%	30.4%	40.9%	43.2%	0.0%	40.7%	57.7%	61.4%
LT	0.0%	19.6%	25.5%	31.9%	0.0%	32.5%	47.4%	53.6%
LU	0.0%	2.9%	7.0%	14.4%	0.0%	4.7%	8.7%	15.5%
HU	0.0%	12.7%	12.6%	17.1%	0.0%	18.1%	18.2%	22.3%
MT	0.0%	1.0%	8.2%	15.1%	0.0%	7.3%	23.6%	47.5%
NL	0.0%	3.9%	8.9%	17.4%	0.0%	3.1%	7.2%	10.2%
AT	0.0%	31.2%	33.8%	40.8%	0.0%	31.0%	33.9%	39.4%
PL	0.0%	9.3%	15.4%	16.6%	0.0%	11.8%	22.0%	20.4%
PT	0.0%	24.1%	30.6%	35.2%	0.0%	33.8%	41.7%	47.1%
RO	0.0%	22.8%	24.3%	25.8%	0.0%	27.2%	25.7%	29.1%
SI	0.0%	21.1%	22.0%	25.1%	0.0%	29.5%	32.1%	34.3%
SK	0.0%	9.1%	16.9%	17.0%	0.0%	7.9%	19.7%	18.8%
FI	0.0%	32.2%	42.8%	50.7%	0.0%	44.0%	56.9%	61.3%
SE	0.0%	46.1%	55.8%	66.4%	0.0%	57.1%	64.4%	67.1%

* 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 2025
Methodology and Notes: see appendices

2.12.1 Renewable Energy (RES) Shares*

Electricity and Transport

	RES-E - Renewable Electricity Generation [%]				RES-T - Renewable energy in Transport [%]*			
%	2000	2010	2019	2023	2000	2010	2019	2023
EU27_2020	0.0%	21.3%	34.1%	45.3%	0.0%	5.5%	8.8%	10.8%
BE	0.0%	7.3%	20.8%	31.4%	0.0%	4.8%	6.8%	12.1%
BG	0.0%	12.4%	23.5%	29.4%	0.0%	1.5%	7.9%	8.1%
CZ	0.0%	7.5%	14.0%	16.4%	0.0%	5.2%	7.8%	5.7%
DK	0.0%	32.7%	65.3%	79.4%	0.0%	1.1%	7.1%	10.8%
DE	0.0%	18.2%	40.6%	52.3%	0.0%	6.4%	7.6%	11.9%
EE	0.0%	10.3%	22.0%	31.8%	0.0%	0.4%	6.2%	9.1%
IE	0.0%	15.6%	36.5%	40.4%	0.0%	2.5%	8.9%	7.6%
EL	0.0%	12.3%	31.3%	48.2%	0.0%	1.9%	4.0%	3.9%
ES	0.0%	29.7%	37.1%	56.9%	0.0%	5.0%	7.6%	12.0%
FR	0.0%	14.8%	22.4%	30.0%	0.0%	6.6%	9.2%	10.0%
HR	0.0%	37.5%	49.8%	58.8%	0.0%	1.1%	5.9%	0.9%
IT	0.0%	20.1%	35.0%	38.1%	0.0%	4.9%	9.0%	10.3%
CY	0.0%	1.4%	9.8%	20.9%	0.0%	2.0%	3.3%	7.3%
LV	0.0%	42.1%	53.4%	54.3%	0.0%	4.0%	4.6%	1.4%
LT	0.0%	7.4%	18.8%	36.5%	0.0%	3.8%	4.0%	7.2%
LU	0.0%	3.8%	10.9%	18.0%	0.0%	2.1%	7.7%	9.2%
HU	0.0%	7.1%	10.0%	19.5%	0.0%	6.2%	8.1%	7.6%
MT	0.0%	0.0%	7.5%	10.7%	0.0%	0.0%	8.9%	10.7%
NL	0.0%	9.6%	18.2%	46.4%	0.0%	3.4%	12.3%	13.4%
AT	0.0%	66.4%	75.1%	87.8%	0.0%	10.7%	10.1%	13.2%
PL	0.0%	6.5%	14.4%	25.8%	0.0%	6.6%	6.2%	6.0%
PT	0.0%	40.6%	53.8%	63.0%	0.0%	5.5%	9.1%	11.2%
RO	0.0%	30.4%	42.6%	47.4%	0.0%	1.4%	7.8%	8.0%
SI	0.0%	32.2%	32.6%	41.9%	0.0%	3.1%	8.0%	10.0%
SK	0.0%	17.8%	22.1%	24.2%	0.0%	5.3%	8.3%	9.2%
FI	0.0%	27.2%	38.0%	52.4%	0.0%	4.4%	14.8%	20.6%
SE	0.0%	55.8%	71.2%	87.5%	0.0%	9.6%	30.3%	33.6%

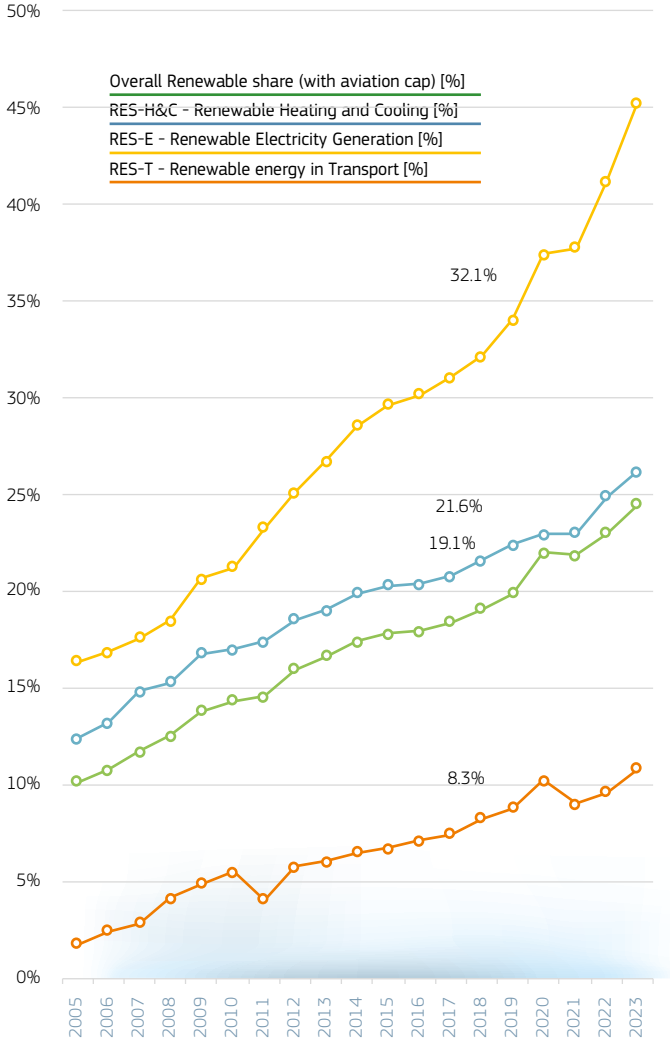
* of the Gross Final Energy

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

source: Eurostat-RES SHARES March 2025
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 2025
Methodology and Notes: **see appendices**

2.13 Energy Prices and Taxes

2.13.1 Prices of Transport Fuels

Automotive Diesel Oil - All Taxes Included*

Current Prices (€/litre)	2005	2010	2019	2022	2023
EU27_2020	1.00	1.15	1.32	1.75	1.67
BE	0.99	1.14	1.44	1.88	1.77
BG		0.98	1.11	1.44	1.37
CZ	0.93	1.21	1.23	1.71	1.50
DK	1.03	1.21	1.39	1.89	1.74
DE	1.06	1.20	1.25	1.90	1.73
EE	0.80	1.10	1.33	1.70	1.61
IE	1.03	1.22	1.32	1.82	1.66
EL	0.89	1.24	1.38	1.74	1.70
ES	0.90	1.07	1.21	1.67	1.56
FR	1.02	1.14	1.44	1.81	1.80
HR			1.32	1.68	1.58
IT	1.11	1.21	1.48	1.76	1.79
CY	0.84	1.00	1.23	1.61	1.55
LV	0.80	1.06	1.20	1.66	1.59
LT	0.82	1.02	1.14	1.64	1.50
LU	0.84	0.99	1.10	1.68	1.53
HU	1.02	1.16	1.23	1.35	1.62
MT	0.88	1.04	1.25	1.21	1.21
NL	1.02	1.15	1.36	1.91	1.71
AT	0.95	1.10	1.21	1.69	1.64
PL	0.92	1.06	1.17	1.44	1.45
PT	0.94	1.15	1.36	1.77	1.59
RO		1.03	1.20	1.55	1.45
SI	0.91	1.15	1.25	1.50	1.54
SK	0.97	1.11	1.23	1.58	1.55
FI	0.97	1.13	1.41	2.06	1.94
SE	1.08	1.25	1.51	2.29	2.02

Source: DG Energy, Member States, Weekly Oil Bulletin
Methodology and Notes: see appendices

2.13.1 Prices of Transport Fuels

Euro Super 95 – All Taxes Included*

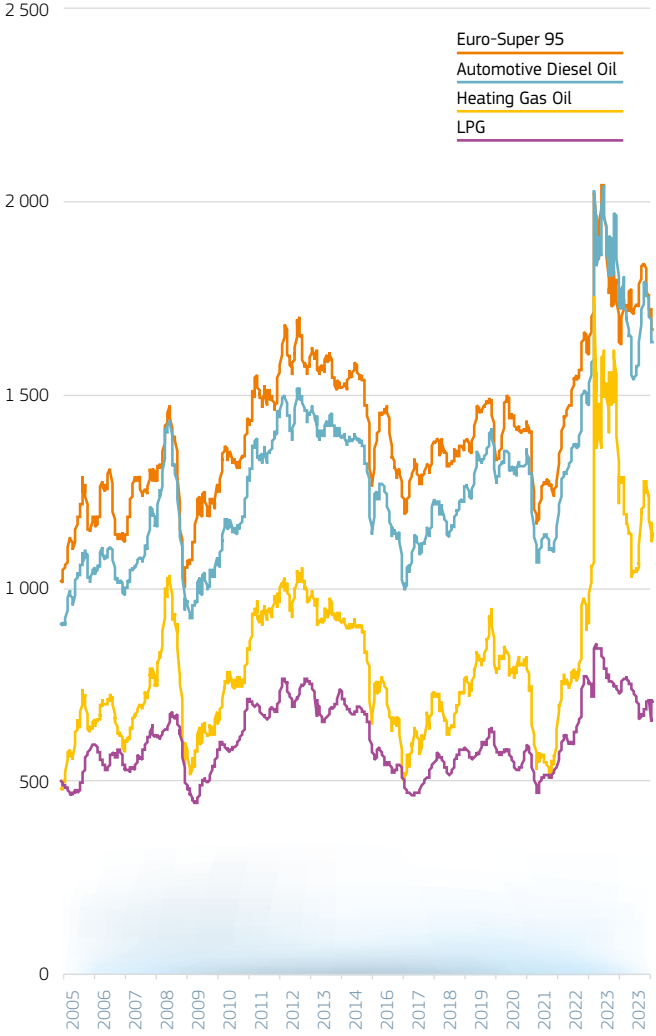
Current Prices (€/litre)	2005	2010	2019	2022	2023
EU27_2020	1.13	1.31	1.40	1.85	1.74
BE	1.22	1.40	1.39	1.82	1.72
BG		1.02	1.08	1.43	1.34
CZ	0.95	1.25	1.24	1.71	1.57
DK	1.21	1.44	1.61	2.10	1.97
DE	1.22	1.39	1.42	1.97	1.85
EE	0.80	1.11	1.34	1.83	1.72
IE	1.05	1.30	1.40	1.86	1.68
EL	0.89	1.43	1.59	2.05	1.90
ES	0.96	1.16	1.30	1.78	1.64
FR	1.16	1.34	1.50	1.88	1.88
HR			1.34	1.65	1.49
IT	1.22	1.36	1.57	1.88	1.87
CY	0.86	1.04	1.18	1.51	1.45
LV	0.81	1.09	1.26	1.76	1.64
LT	0.83	1.18	1.20	1.70	1.52
LU	1.02	1.16	1.21	1.70	1.57
HU	1.05	1.22	1.17	1.28	1.58
MT	0.94	1.19	1.38	1.34	1.34
NL	1.35	1.49	1.65	2.16	1.92
AT	1.03	1.19	1.24	1.70	1.60
PL	1.00	1.13	1.16	1.41	1.43
PT	1.15	1.37	1.49	1.92	1.72
RO		1.06	1.16	1.51	1.37
SI	0.92	1.20	1.28	1.48	1.45
SK	0.96	1.25	1.33	1.68	1.59
FI	1.22	1.43	1.52	2.15	1.93
SE	1.18	1.34	1.48	1.94	1.74

Source: DG Energy, Member States, Weekly Oil Bulletin
Methodology and Notes: **see appendices**

2.13.1 Prices of Transport Fuels

Consumer Prices of Petroleum Products*

EU Weighted Average (€ per litre)



*All Taxes Included, weekly prices
Incomplete series for the period 2005-2013
due to later accesion to the EU of Bulgaria, Croatia and Romania
Source: DG Energy, Member States, Weekly Oil Bulletin
Methodology and Notes: see appendices

2.13.2 Fuel Prices*– Domestic Consumers

Gas - Band D2:
20GJ < Consumption < 200GJ – 2nd Semester**

€/GJ (GCV)	2009	2010	2019	2021	2022	2023
EU27_2020	15.50	17.22	20.05	21.72	31.59	31.25
BE	14.33	16.78	15.92	18.78	37.85	27.60
BG	9.67	11.98	12.27	19.65	32.59	19.52
CZ	13.11	14.35	16.32	15.40	29.61	31.26
DK	23.64	26.81	21.41	34.64	57.89	33.89
DE	16.35	15.86	16.33	19.23	26.15	31.80
EE	10.07	11.14	12.38	20.82	30.25	21.97
IE	15.29	14.63	21.22	21.74	42.88	45.50
EL			16.30	28.16	44.41	25.73
ES	14.88	15.00	28.35	30.06	43.71	28.06
FR	16.20	15.98	23.31	21.89	28.01	32.80
HR	9.10	10.54	11.28	11.04	12.50	12.70
IT	14.84	21.86	25.96	27.91	36.38	37.42
CY						
LV	10.52	11.28	9.74	12.01	30.85	25.02
LT	11.29	12.59	11.27	11.38	35.77	40.38
LU	12.82	13.13	11.49	17.76	24.75	23.61
HU	13.23	15.38	9.29	8.47	9.70	9.29
MT						
NL	18.73	19.99	26.80	30.47	53.48	41.66
AT	17.23	16.71	18.73	19.30	34.31	41.04
PL	12.78	14.04	12.91	13.13	15.36	20.28
PT	16.52	17.49	21.56	21.46	35.47	38.17
RO	7.45	7.73	9.23	13.19	35.14	15.51
SI	14.96	18.68	15.59	16.32	26.15	30.74
SK	13.21	12.39	13.35	11.75	13.85	16.96
FI						
SE	26.12	29.48	30.69	57.18	76.41	57.50

* All Taxes and levies Included

**Prices from second semester each year

source: Eurostat June 2025
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	2019	2021	2022	2023
EU27_2020	16.77	17.77	21.68	23.69	28.40	28.32
BE	18.64	19.74	28.60	29.94	44.89	37.78
BG	8.18	8.30	9.58	10.91	11.47	11.92
CZ	15.33	15.49	17.70	18.83	17.21	31.51
DK	25.55	27.08	29.24	34.48	58.71	35.54
DE	22.94	24.38	28.78	32.34	33.57	40.20
EE	9.20	10.04	14.11	19.39	26.50	23.39
IE	18.55	18.75	25.46	29.74	32.25	37.94
EL	10.32	12.11	15.51	19.74	24.38	23.09
ES	16.84	18.51	23.94	28.16	33.50	23.47
FR	12.07	13.50	19.13	20.22	22.04	25.91
HR	11.64	11.53	13.24	13.13	14.79	14.80
IT	19.97	19.20	23.41	23.60	36.41	33.47
CY	16.42	20.21	22.36	23.04	32.61	34.52
LV	10.54	10.48	16.40	18.86	29.92	27.74
LT	9.26	12.16	12.54	14.77	24.29	22.23
LU	18.82	17.47	17.99	19.89	20.42	20.15
HU	16.62	15.74	10.97	10.03	10.84	11.32
MT	15.13	16.53	13.04	13.18	12.84	12.79
NL	19.06	17.89	20.55	14.49	13.50	25.15
AT	19.09	19.30	20.74	22.85	23.70	27.48
PL	12.91	13.82	13.76	15.74	16.04	21.62
PT	15.94	16.66	21.81	21.70	22.22	22.99
RO	9.79	10.52	14.21	16.02	34.11	19.10
SI	13.41	14.26	16.66	17.11	19.56	21.13
SK	15.60	16.37	15.85	16.24	18.84	19.43
FI	12.89	13.70	17.83	18.40	24.74	24.03
SE	16.46	19.58	20.52	26.04	27.40	21.81

* All Taxes and levies Included

**Prices from second semester each year

source: Eurostat June 2025
Methodology and Notes: see appendices

2.13.3 Fuel Prices*– Industrial Consumers

Gas - Band I3

10 000 GJ < Consumption < 100 000 GJ

2nd Semester**

€/GJ (GCV)	2009	2010	2019	2021	2022	2023
EU27_2020	8.61	9.42	8.53	11.55	22.55	19.14
BE	8.50	8.20	6.32	9.45	17.67	14.96
BG	5.96	8.41	7.75	14.11	32.82	12.79
CZ	7.56	10.07	7.95	9.12	22.82	19.35
DK	6.85	10.72	8.38	21.99	38.28	16.16
DE	9.61	11.09	8.32	10.54	17.03	20.60
EE	6.39	7.85	9.26	18.61	37.24	15.77
IE	7.31	8.80	8.94	15.49	22.83	19.49
EL			9.28	13.87	35.89	14.65
ES	7.53	8.08	8.53	9.38	29.07	15.74
FR	8.80	9.69	10.22	14.00	20.37	21.66
HR	7.43	10.95	8.32	10.61	22.76	17.50
IT	7.83	8.34	8.22	11.17	31.33	17.21
CY						
LV	7.69	8.84	7.76	12.53	39.92	16.92
LT	7.55	9.40	7.63	19.97	33.56	15.25
LU	10.03	11.72	7.90	12.67	31.46	25.05
HU	10.06	9.93	7.60	12.83	43.35	22.00
MT						
NL	9.72	8.62	7.90	12.47	19.53	18.10
AT	9.07	9.78	8.60	13.24	23.39	17.03
PL	8.36	9.02	9.33	11.43	26.74	23.83
PT	7.22	9.28	8.70	9.37	27.94	16.63
RO	5.93	6.11	8.76	12.15	41.05	15.13
SI	9.61	11.81	9.40	12.74	22.46	18.79
SK	8.91	10.22	9.92	9.13	21.64	26.69
FI	8.00	9.13	15.41	28.03	50.42	27.36
SE	12.47	13.43	13.68	28.47	46.17	35.44

* Excluding VAT and other recoverable taxes and levies

**Prices from second semester each year

source: Eurostat June 2025

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	2019	2021	2022	2023
EU27_2020	10.11	10.42	11.90	14.42	21.04	20.08
BE	10.79	10.54	11.52	14.39	23.67	21.64
BG	6.39	6.64	8.68	15.64	17.94	13.62
CZ	11.22	10.81	7.84	9.05	18.40	17.98
DK	9.20	9.61	6.81	11.64	22.78	11.70
DE	11.34	11.90	16.08	18.60	20.56	21.75
EE	6.45	7.27	9.15	15.26	25.86	15.70
IE	11.75	11.31	13.28	18.81	28.76	25.79
EL	9.36	10.26	10.84	22.38	24.57	18.32
ES	11.20	10.93	11.04	14.59	22.02	15.36
FR	6.48	7.16	9.50	10.18	12.67	21.33
HR	9.04	9.04	10.55	11.42	23.91	23.32
IT	13.70	14.43	16.16	18.53	33.72	22.84
CY	14.94	17.30	18.00	19.46	31.62	27.59
LV	8.93	9.07	10.70	13.51	21.57	15.08
LT	7.90	10.46	9.45	13.96	32.97	16.19
LU	11.58	10.24	9.04	9.74	15.12	23.42
HU	12.97	10.53	9.54	10.32	22.49	26.95
MT	12.91	18.10	13.55	14.01	13.48	13.51
NL	10.61	9.70	8.99	12.38	18.02	22.13
AT	11.62	11.28	10.88	12.78	17.86	24.71
PL	9.33	9.87	8.28	11.04	17.02	21.19
PT	9.44	9.20	11.59	11.86	13.59	11.61
RO	8.28	8.08	10.14	12.93	35.73	17.18
SI	9.62	10.05	9.53	9.99	19.68	20.47
SK	14.03	11.98	13.17	13.45	24.29	23.30
FI	6.83	6.83	7.21	8.00	11.50	8.85
SE	6.89	8.41	6.94	9.82	15.25	9.01

* Excluding VAT and other recoverable taxes and levies

**Prices from second semester each year

source: Eurostat June 2025

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 Eurostat (NACE) and UN (ISIC) Classifications

EUROSTAT (NACE) AND UN (ISIC) CLASSIFICATIONS

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

* Broad Definition, The Narrow Definition only Includes Division D35

Source: Eurostat, UN, July 2019

3.2 Enterprises in the Energy Sector

3.2.1 Number of Enterprises in the Energy Sector

ENTERPRISES SURVEY
EU27_2020

	2021	2022	2023
B05 - Mining of coal and lignite	127	120	*111*
B06 - Extraction of crude petroleum and natural gas	190	186	*192*
B0721 - Mining of uranium and thorium ores	1	2	*2*
B0892 - Extraction of peat	1028	1000	*992*
B091 - Support activities for petroleum and natural gas extraction	1050	1147	*1125*
C19 - Manufacture of coke and refined petroleum products	860	835	*746*
D35 - Electricity, gas, steam and air conditioning supply	172873	187625	*203517*
D351 - Electric power generation, transmission and distribution	161195	175671	*190763*
D3511 - Production of electricity	150000	165000	*168084*
D3512 - Transmission of electricity	634	677	*668*
D3513 - Distribution of electricity	2917	3230	*3467*
D3514 - Trade of electricity	5770	6320	*6590*
D352 - Manufacture of gas; distribution of gaseous fuels through mains	5601	5794	*5825*
D3521 - Manufacture of gas	4307	4485	*4531*
D3522 - Distribution of gaseous fuels through mains	550	535	*512*
D3523 - Trade of gas through mains	750	774	*711*
D353 - Steam and air conditioning supply	6077	6160	*6252*
D3530 - Steam and air conditioning supply	6077	6160	*6252*
Broad sector - no. of enterprises reported	176129	190915	*206685*

Italics, blue: DG ENER estimates
source: Eurostat, Structural Business Statistics Survey (SBS), May 2025
Methodology and Notes in the annexes

3.2.1 Number of Enterprises in the Energy Sector

NUMBER OF ENTERPRISES
ENTERPRISES SURVEY

	Mining of Coal and Lignite (B05)				Extraction of Crude Petroleum and Natural Gas (B06)			
	2015	2021	2022	2023	2015	2021	2022	2023
EU27_2020		127	120	*111*	220	190	186	*192*
								0
BE	0		0	*0*	0	0	0	
BG	22	15	13	*11*	4	4	3	*3*
CZ	12	8	8	*12*	5	5	5	*6*
DK	0	0	0	*0*	12	12	12	*10*
DE	7	2	3	*3*	4	6	6	*7*
EE	0	0	0	*0*	2	1	1	*1*
IE							19	
EL	12			*7*				
ES	81	34	33	*33*	19	6		*16*
FR	1	0		*0*		31		*29*
HR	0	0	0	*0*	4	0	0	*0*
IT	0	0	0	*0*	12		10	*11*
CY	0	0	0	*0*	0	0	0	*0*
LV	0		0	*0*	2	1	1	*1*
LT	0	0	0	*0*	4	3	3	*4*
LU	0	0	0	*0*	0	0	0	*0*
HU	14	6			8	11	13	*12*
MT	0	0	0	*0*	0	0	0	*0*
NL	0	0	0	*0*	41	34	33	*34*
AT	0	0	0	*0*	2	2	3	*3*
PL	62	27	25	*27*	62	18	13	*11*
PT	0	0	0	*0*	0	0	0	*0*
RO	27	18	19	*17*	38	22	25	*24*
SI	1	1	1	*1*	1	2	2	*1*
SK								
FI	0	0	0	*0*	0	0	0	*0*
SE	0	0	0	*0*	0	0	0	*0*

Italics, blue: DG ENER estimates
source: Eurostat, Structural Business Statistics Survey (SBS), May 2025
Methodology and Notes in the annexes

3.2.1 Number of Enterprises in the Energy Sector

NUMBER OF ENTERPRISES
ENTERPRISES SURVEY

	Extraction of Peat (B08.92)				Support Activities for Petroleum and Natural Gas Extraction (B09.1)			
	2015	2021	2022	2023	2015	2021	2022	2023
EU27_2020		1 028	1 000	*992*		1 050	1 147	*1125*
0								
BE	0	0	0				13	
BG	4	0	0	*0*	14	6	5	*7*
CZ	17	13	11	*14*	6	6	5	*5*
DK	2	2	2	*2*	55	69	68	*69*
DE	91	80	78	*75*		65	65	*68*
EE	41	37	34	*33*	0	0	0	*0*
IE		45	49	*47*	35		39	
EL		0	0	*0*	9	6	4	*5*
ES	7	7	7	*7*	46	33		*41*
FR	39	8	8	*7*	54	21	19	*14*
HR	0	0	0	*0*	4	6	7	*8*
IT	4	3	3	*3*	52	30	33	*32*
CY	0	0	0	*0*				
LV	91	107	93	*70*	2		0	*0*
LT	26	18	17	*17*	0	0	0	*0*
LU	0	0	0	*0*	0	0	0	*0*
HU	13	12		*9*	37	31	31	*26*
MT	0	0	0	*0*		8	4	*6*
NL	6	4	2	*2*	251	399	467	*502*
AT	5	4	4	*4*	7	8	10	*8*
PL	32	39	41	*37*	104	139	138	*136*
PT	1	1	1	*0*	4	6	9	*8*
RO	5	3	4	*4*	106	122	149	*154*
SI	0	0	0	*0*	2	2	4	*4*
SK	42	104	121	*152*		0	0	*0*
FI	450	493	478	*462*	0	0	0	*0*
SE	70	48	46	*47*	63	38	31	*32*

Italics, blue: DG ENER estimates
source: Eurostat, Structural Business Statistics Survey (SBS), May 2025
Methodology and Notes in the annexes

3.2.1 Number of Enterprises in the Energy Sector

NUMBER OF ENTERPRISES
ENTERPRISES SURVEY

	Manufacture of Coke and Refined Petroleum Products (C19)				Electricity, Gas, Steam and Air Conditioning Supply (D35)			
	2015	2019	2020	2021	2015	2021	2022	2023
EU27_2020	866	860	876	*780*	96893	172873	187625	*203517*
BE				*14*	851	787	829	*948*
BG	11	10	12	*9*	1745	2583	4026	*4901*
CZ	25	23	22	*19*	10996	12203	12738	*12727*
DK	3	10	15	*15*	1745	1391	2237	*2256*
DE	54	82	86	*84*	2059	63817	66352	*74086*
EE	5	4	5	*5*	230	640	686	*648*
IE		21	22		515	821	873	*970*
EL	40			*34*	7036	10815	12232	*12315*
ES	14	19		*15*	14044	11961	11834	*11681*
FR	43	18	16	*16*	27062	32079	37254	*42764*
HR	14	7	6	*3*	573	590	660	*825*
IT	281	292		*254*	10775	9723	10005	*10102*
CY		3	3	*3*	58	103	103	*124*
LV	16	8	9	*7*	533	475	490	*500*
LT	9	7	9	*3*	1488	1244	1307	*1346*
LU	0	0	0	*0*	80	164	167	*150*
HU	8	7	6	*7*	610	1594	1673	*1762*
MT		0	0	*0*	3	21	24	*26*
NL	45	47	48	*41*	1130	2359	2764	*3022*
AT	5	5	5	*5*	2390	3853	3999	*4765*
PL	176	106	98	*97*	3192	4429	4522	*4961*
PT	18	20	21	*21*	1209	4671	6186	*5206*
RO	44	45	36	*38*	1460	1028	1121	*1333*
SI	4	3	3	*2*	1530	1316	1326	*1361*
SK		30	29	*33*	451	810	831	*827*
FI	17	21			907	1327	1453	*1664*
SE	34	22	26	*21*	4221	2099	1932	*2247*

Italics, blue: DG ENER estimates
source: Eurostat, Structural Business Statistics Survey (SBS), May 2025
Methodology and Notes in the annexes

3.2.2 Turnover in the Energy Sector

TURNOVER
ENTERPRISES SURVEY
EU27_2020

Mio €	2021	2022	2023
B05 - Mining of coal and lignite	7364	11603	*11072*
B06 - Extraction of crude petroleum and natural gas	38897	101000	*33174*
B0721 - Mining of uranium and thorium ores	0	0	*0*
B0892 - Extraction of peat	1878	2037	*1389*
B091 - Support activities for petroleum and natural gas extraction	3375	6516	*5523*
C19 - Manufacture of coke and refined petroleum products	426415	717892	*518801*
D35 - Electricity, gas, steam and air conditioning supply	1906347	3316829	*2653085*
D351 - Electric power generation, transmission and distribution	1600000	2412104	*2002629*
D3511 - Production of electricity	691511	711352	*598634*
D3512 - Transmission of electricity	91400	126061	*85316*
D3513 - Distribution of electricity	138693	160882	*145529*
D3514 - Trade of electricity	654314	1195553	*943199*
D352 - Manufacture of gas; distribution of gaseous fuels through mains	286490	845783	*453512*
D3521 - Manufacture of gas	4167	6939	*7434*
D3522 - Distribution of gaseous fuels through mains	29565	40000	*21707*
D3523 - Trade of gas through mains	252758	798023	*399199*
D353 - Steam and air conditioning supply	44000	58942	*35836*
D3530 - Steam and air conditioning supply	44000	58942	*35836*
Broad sector - turnover reported	2384274	4155876	*3223044*

Italics, blue: DG ENER estimates
source: Eurostat, Structural Business Statistics Survey (SBS), May 2025
Methodology and Notes in the annexes

3.2.2 Turnover in the Energy Sector

TURNOVER
ENTERPRISES SURVEY

Mio €	Mining of Coal and Lignite (B05)				Extraction of Crude Petroleum and Natural Gas (B06)			
	2015	2021	2022	2023	2015	2021	2022	2023
EU27_2020		7364	11603	*11072*	84723	38897	101000	*33174*
BE	0		0	*0*	0	0	0	
BG	349				30			
CZ	1578	1171	1590	*1873*				
DK	0	0	0	*0*	3896	1652	3249	*2146*
DE	2162				2978			
EE	0	0	0	*0*	245	75	105	*107*
IE								
EL	93			*40*				
ES	236	14	18	*26*	126	1		*2161*
FR	0	0		*0*				
HR	0	0	0	*0*		0	0	*0*
IT	0	0	0	*0*	46395		6517	
CY	0	0	0	*0*	0	0	0	*0*
LV	0		0	*0*				
LT	0	0	0	*0*	39	15	22	*23*
LU	0	0	0	*0*	0	0	0	*0*
HU	9	3			33	230	595	*439*
MT	0		0	*0*	0	0	0	*0*
NL	0	0	0	*0*	26735	20854	61627	*26002*
AT	0	0	0	*0*				
PL	5755	5232	8537	*9112*				
PT	0	0	0	*0*	0	0	0	*0*
RO	21	12	17	*21*	4246	1300	3719	*2297*
SI								
SK								
FI	0	0	0	*0*	0	0	0	*0*
SE		0	0	*0*	0	0	0	*0*

Italics, blue: DG ENER estimates
source: Eurostat, Structural Business Statistics Survey (SBS), May 2025
Methodology and Notes in the annexes

3.2.2 Turnover in the Energy Sector

TURNOVER
ENTERPRISES SURVEY

Mio €	Extraction of Peat (B08.92)				Support Activities for Petroleum and Natural Gas Extraction (B09.1)			
	2015	2021	2022	2023	2015	2021	2022	2023
EU27_2020	1288	1878	*2037*	*1389*	4455	3375	6516	*5523*
BE	0	0	0				8	
BG		0	0	*0*	0			
CZ	7	4	5	*5*				
DK					633	512	567	*743*
DE	400	550	556	*479*		1091	1458	*570*
EE	84	138	165	*158*	0	0	0	*0*
IE		24	13	*10*	10		25	
EL		0	0	*0*	29	1	4	*11*
ES	10	14	15	*14*	99	27		*68*
FR	52	69	62		266	315		*442*
HR	0	0	0	*0*				
IT	5	12	12	*13*	2238	491	677	
CY	0	0	0	*0*				
LV	151						0	*0*
LT	61	91	103	*56*	0	0	0	*0*
LU	0	0	0	*0*	0	0	0	*0*
HU	5	6		*7*	133	22	50	*110*
MT	0	0	0	*0*				
NL							2101	*1826*
AT						78	98	*48*
PL		82	99		326	272	318	
PT				*0*			1	*0*
RO	1	4	6	*7*	638	560	664	*670*
SI	0	0	0	*0*				
SK	12	13	15	*16*		0	0	*0*
FI	472	438	514	*453*	0	0	0	*0*
SE	29	10	10	*11*	84	6		*15*

Italics, blue: DG ENER estimates
source: Eurostat, Structural Business Statistics Survey (SBS), May 2025
Methodology and Notes in the annexes

3.2.2 Turnover in the Energy Sector

TURNOVER
ENTERPRISES SURVEY

Mio €	Manufacture of Coke and Refined Petroleum Products (C19)				Electricity, Gas, Steam and Air Conditioning Supply (D35)			
	2015	2021	2022	2023	2015	2021	2022	2023
EU27_2020	330409	426415	717892	*518801*	*1310101*	1906347	3316829	*2653085*
BE				*45728*	36969	29557	55066	*42073*
BG			2175		8357	16673	37538	*19775*
CZ					40927	45546	100504	*72867*
DK					21487	76437	130611	*71689*
DE	107408	91397	164920	*127845*	537677	824733	1387737	*1251390*
EE	254		421	*384*	1765	2965	5541	*4248*
IE					8013	12201	21676	*21312*
EL	14818			*23587*	19684	22127	37718	*22447*
ES	36051	48549		*59150*	93787	118040	189412	*136868*
FR	39383	37222	62306	*50445*	110123	158990	271930	*240148*
HR					4359	6385	13022	*11468*
IT	35596	44857		*68931*	195056	272184	530013	*293035*
CY		4	9	*8*	630	896	1394	*1395*
LV	8	2			2082	2805	4830	*3736*
LT					2376	3540	7574	*5041*
LU	0	0	0	*0*	4647	5682	10657	*10014*
HU	6529	9269	13076	*11775*	16727	22466	47783	*30125*
MT			0	*0*		759	749	*705*
NL	34362	38859	63559	*52137*	31409	39693	82761	*76255*
AT	7226	6965			35906	65699	110986	*61714*
PL	27045	28165			47826	66645	102380	*136790*
PT	7131	7523	13569	*10533*	21119	21569	32171	*21790*
RO	3374	12384	21957	*13802*	13175	17942	29472	*23236*
SI					6076	10153	14939	*13024*
SK					11284	14482	24651	*25892*
FI					12422	18235	24955	*22094*
SE	11225	12823	22203	*17171*	26220	29949	40472	*33951*

Italics, blue: DG ENER estimates
source: Eurostat, Structural Business Statistics Survey (SBS), May 2025
Methodology and Notes in the annexes

3.2.3 Number of Persons Declared as Employed in the energy sector

NUMBER OF PERSONS DECLARED AS EMPLOYED ENTERPRISES SURVEY EU27_2020

	2021	2022	2023
B05 - Mining of coal and lignite	110016	105278	*98175*
B06 - Extraction of crude petroleum and natural gas	17100	16559	*13927*
B0721 - Mining of uranium and thorium ores		0	*0*
B0892 - Extraction of peat	8637	8759	*7449*
B091 - Support activities for petroleum and natural gas extraction	19800	20500	*16153*
C19 - Manufacture of coke and refined petroleum products	160160	163970	*126371*
D35 - Electricity, gas, steam and air conditioning supply	1340000	1380000	*1425361*
D351 - Electric power generation, transmission and distribution	905912	911535	*961361*
D3511 - Production of electricity	439066	457938	*473304*
D3512 - Transmission of electricity	67128	67640	*65505*
D3513 - Distribution of electricity	247218	254290	*195259*
D3514 - Trade of electricity	135944	146910	*156247*
D352 - Manufacture of gas; distribution of gaseous fuels through mains	133229	145960	*110490*
D3521 - Manufacture of gas	11600	13366	*14349*
D3522 - Distribution of gaseous fuels through mains	37554	32574	*27945*
D3523 - Trade of gas through mains	68923	72358	*77257*
D353 - Steam and air conditioning supply	119095	115417	*111578*
D3530 - Steam and air conditioning supply	119095	115417	*111578*
Broad Sector - Employment Reported	1655713	1695066	*1687436*

Italics, blue: DG ENER estimates
source: Eurostat, Structural Business Statistics Survey (SBS), May 2025
Methodology and Notes in the annexes

3.2.3 Number of Persons Declared as Employed in the energy sector

NUMBER OF PERSONS DECLARED AS EMPLOYED ENTERPRISES SURVEY

	Mining of Coal and Lignite (B05)				Extraction of Crude Petroleum and Natural Gas (B06)			
	2015	2021	2022	2023	2015	2021	2022	2023
EU27_2020	148224	110016	105278	*98175*	56621	17100	16559	*13927*
BE	0		0	*0*	0	0	0	
BG	11995							
CZ	18716	8525	7638	*7578*				
DK	0	0	0	*0*	1051	1202		
DE	17468				3927	1303		
EE	0	0	0	*0*	3043	504	503	*512*
IE							187	
EL	316			*198*				
ES	1684	233	260	*261*	368	6		*258*
FR	2	0		*0*				*222*
HR	0	0	0	*0*	7852	0	0	*0*
IT	0	0	0	*0*	12681		1598	*1322*
CY	0	0	0	*0*	0	0	0	*0*
LV	0		0	*0*	20	12	12	*13*
LT	0	0	0	*0*	212	84	90	*95*
LU	0	0	0	*0*	0	0	0	*0*
HU	124	51			68	99	101	*106*
MT	0		0	*0*	0	0	0	*0*
NL	0	0	0	*0*	3913	2483	2385	*2440*
AT	0	0	0	*0*				
PL	96076	87640	84553	*89426*				
PT	0	0	0	*0*	0	0	0	*0*
RO	1843	282	203	*661*	23486	6151	6171	*6267*
SI								
SK								
FI	0	0	0	*0*	0	0	0	*0*
SE		0	0	*0*	0	0	0	*0*

Italics, blue: DG ENER estimates
source: Eurostat, Structural Business Statistics Survey (SBS), May 2025
Methodology and Notes in the annexes

3.2.3 Number of Persons Declared as Employed in the energy sector

NUMBER OF PERSONS DECLARED AS EMPLOYED ENTERPRISES SURVEY

	Extraction of Peat (B08.92)				Support Activities for Petroleum and Natural Gas Extraction (B09.1)			
	2015	2021	2022	2023	2015	2021	2022	2023
EU27_2020	8827	8637	8759	*7449*	19503	19800	20500	*16153*
BE	0	0	0				18	
BG	55	0	0	*0*	25	11	8	
CZ	71	53	55	*60*				
DK					1587	1614	1705	*1716*
DE	1762	1704	1786	*1596*		2255	2448	*1915*
EE	963	840	809	*835*	0	0	0	*0*
IE		82	95	*83*	29			
EL		0	0	*0*	276	3	1	*2*
ES	36	42	42	*44*	191	171		*286*
FR	130	157	153	*131*	386	407	437	*416*
HR	0	0	0	*0*	2273	7	15	*29*
IT	21	40	36	*33*	2188	1298	1356	*1464*
CY	0	0	0	*0*				
LV	2158	2266	2362	*2338*	2		0	*0*
LT	1149	977	975	*678*	0	0	0	*0*
LU	0	0	0	*0*	0	0	0	*0*
HU	97	69		*43*	1062	213	431	*538*
MT	0	0	0	*0*			15	*17*
NL	104						3329	*3543*
AT						178	177	*195*
PL		678	677		4638	3790	3687	
PT				*0*			9	*9*
RO	25	49	54	*57*	6771	6354	5985	*5920*
SI	0	0	0	*0*				
SK	114	157	192	*231*		0	0	*0*
FI	1977	1242	1346	*1242*	0	0	0	*0*
SE	165	62	64	*78*	75	72	102	*103*

Italics, blue: DG ENER estimates
source: Eurostat, Structural Business Statistics Survey (SBS), May 2025
Methodology and Notes in the annexes

3.2.3 Number of Persons Declared as Employed in the energy sector

NUMBER OF PERSONS DECLARED AS EMPLOYED ENTERPRISES SURVEY

	Manufacture of Coke and Refined Petroleum Products (C19)				Electricity Gas Steam and Air Conditioning Supply (D35)			
	2015	2021	2022	2023	2015	2021	2022	2023
EU27_2020	82452	160160	163970	126371	1090709	1340000	1380000	*1425361*
BE				*4766*	20293	21904	22171	*22346*
BG	2078			*2428*	31751	32282	32938	*33326*
CZ					34536	41058	41198	*42093*
DK		663	716	*773*	13815	12826	15388	*17806*
DE	22302	22637	23640	*23708*	224669	386423	405116	*424508*
EE	1679		1186	*1205*	4949	5078	5375	*5640*
IE		367	350		8846	11622	12169	*13345*
EL	3588			*5177*	25764	30613	30345	*30959*
ES	8453	10799		*8612*	39764	42452	44802	*45066*
FR			18059		190364	225742	228593	*231737*
HR	262	8823	8629	*8579*	14893	14690	14810	*15121*
IT	11065	11877		*17894*	89109	93996	96874	*97860*
CY		30	30	*26*	2130	2212	2238	*2377*
LV	65	22	22	*15*	11344	9761	9418	*9526*
LT					13522	12066	12557	*13103*
LU	0	0	0	*0*	1529	1869	1911	*2030*
HU	5691	10767	10818	*11384*	24601	34229	38387	*38665*
MT			0	*0*	10		1776	*1834*
NL	5299	5350	5277	*5500*	27969	32566	35134	*35077*
AT	1180	2487			29168	35381	36255	*38259*
PL	13495	21894			128183	141647	142184	*147984*
PT	1830	1923	1931	*1993*	9589	14020	16161	*16608*
RO	2560	15583	14414	*13182*	72333	62016	63182	*62481*
SI	26				8958	8673	8734	*8949*
SK					17873	17310	17584	*17605*
FI					13368	14020	14254	*14908*
SE	2879	3272	2943	*3070*	31379	37566	33448	*36148*

Italics, blue: DG ENER estimates
source: Eurostat, Structural Business Statistics Survey (SBS), May 2025
Methodology and Notes in the annexes

3.3 Economy

3.3.1 GDP at Current Market Prices

Mrd EUR*	2005	2010	2015	2021	2022	2023
EU27_2020	9600.1	11047.4	12307.8	14795.1	16144.5	17205.1
BE	310.0	363.2	415.5	506.0	563.7	596.2
BG	24.0	38.3	45.8	71.4	86.1	94.7
CZ	110.4	159.5	170.5	246.0	287.0	317.4
DK	213.4	243.4	272.2	345.2	382.3	376.4
DE	2325.7	2616.1	3085.7	3676.5	3953.9	4185.6
EE	11.3	14.7	21.0	31.5	36.4	38.2
IE	170.3	167.4	272.5	449.2	520.9	510.0
EL	194.8	223.6	175.4	184.6	207.9	225.2
ES	928.1	1077.1	1087.1	1235.5	1373.6	1498.3
FR	1762.0	1996.1	2201.4	2508.1	2655.4	2822.5
HR	36.8	44.5	46.0	58.3	67.6	78.1
IT	1499.1	1617.9	1663.3	1842.5	1998.1	2131.4
CY	15.0	19.5	17.9	25.7	29.4	31.3
LV	13.2	17.7	23.7	32.3	36.1	39.4
LT	21.0	27.7	37.4	56.7	67.5	73.8
LU	30.3	42.4	54.1	73.0	76.7	81.0
HU	91.0	99.6	112.9	155.0	169.3	197.9
MT	5.1	6.9	10.2	16.7	18.3	20.5
NL	553.1	643.0	699.2	891.5	993.8	1067.6
AT	252.4	294.1	342.1	406.2	448.0	473.2
PL	246.9	361.0	432.6	583.0	661.8	752.2
PT	158.6	179.9	179.4	216.5	244.0	267.9
RO	79.2	128.3	160.3	242.3	281.8	324.4
SI	28.9	36.1	38.5	52.0	56.9	64.0
SK	39.2	68.7	80.4	101.9	110.0	123.8
FI	164.7	188.1	210.2	248.8	266.1	272.8
SE	315.4	372.6	452.5	538.6	551.9	541.3

* Units in Milliard - Long Scale = 1000 Million €
Source: DG Economic and Financial Affairs, AMECO, April 2025
Methodology and Notes in the annexes

3.3.2 GDP per Capita at Current Market Prices

GDP PER CAPITA AT CURRENT MARKET PRICES

Thousand EUR/cap*	2005	2010	2015	2021	2022	2023
EU27_2020	22.1	25.1	27.8	33.2	36.2	38.4
BE	29.7	33.5	37.0	43.8	48.5	50.8
BG	3.1	5.2	6.5	10.9	13.3	14.7
CZ	10.8	15.2	16.2	23.4	27.3	29.3
DK	39.4	44.0	48.1	59.1	65.1	63.4
DE	28.2	32.0	38.0	44.2	47.5	50.4
EE	8.3	11.0	0.3	0.4	0.4	0.5
IE	41.4	36.8	207.2	337.7	391.1	373.4
EL	17.8	20.1	37.5	36.4	40.3	42.7
ES	21.4	23.2	100.1	115.7	131.3	143.9
FR	28.1	30.9	47.4	52.9	55.9	58.7
HR	8.5	10.3	0.7	0.9	1.0	1.1
IT	25.8	27.1	397.8	473.3	517.3	553.5
CY	20.5	23.8	0.3	0.4	0.5	0.5
LV	5.9	8.3	27.5	35.3	38.8	41.5
LT	6.3	8.8	18.8	29.9	36.0	39.2
LU	65.7	84.5	18.5	26.0	27.3	28.3
HU	9.0	9.9	200.5	244.2	262.3	299.5
MT	12.7	16.7	1.0	1.7	1.9	2.1
NL	33.9	38.8	1593.4	1727.3	1910.5	1969.6
AT	30.8	35.2	20.2	23.2	25.5	26.6
PL	6.5	9.5	50.4	65.3	73.7	82.6
PT	15.1	17.0	4.7	5.8	6.6	7.3
RO	3.7	6.3	15.4	23.3	27.0	30.8
SI	14.5	17.6	1.9	2.7	3.0	3.4
SK	7.3	12.7	39.0	48.3	52.2	58.5
FI	31.5	35.1	38.8	45.6	49.0	50.3
SE	35.0	39.9	82.7	97.3	99.5	97.3

* 1000 €' per Capita
Source: DG Economic and Financial Affairs, AMECO, April 2025
Source: Eurostat, Demography and migration, April 2025
Methodology and Notes in the annexes

3.3.3 GDP at 2015 Market Prices

GDP AT 2015 MARKET PRICES

Mrd EUR*	2005	2010	2015	2021	2022	2023
EU27_2020	11146.8	11708.7	12306.8	13458.3	13920.2	13996.3
BE	365.0	392.7	415.5	450.3	469.5	475.1
BG	36.1	42.9	45.8	53.8	56.0	57.1
CZ	139.5	157.4	170.5	193.0	198.5	198.6
DK	254.3	256.3	272.2	313.3	314.7	316.6
DE	2677.6	2839.6	3087.0	3300.1	3359.8	3330.6
EE	18.0	17.6	21.0	25.9	25.6	24.9
IE	189.5	193.1	272.3	427.4	459.5	447.8
EL	216.7	216.0	175.4	183.2	193.7	198.3
ES	1034.5	1081.7	1087.1	1141.9	1212.5	1245.0
FR	1990.0	2085.2	2201.4	2325.5	2388.6	2423.0
HR	44.3	45.8	45.5	53.3	57.1	59.0
IT	1751.4	1721.4	1663.3	1719.8	1802.7	1815.6
CY	17.1	19.5	17.9	24.5	26.3	27.0
LV	20.4	19.9	23.7	27.3	27.8	28.6
LT	29.0	30.4	37.4	47.0	48.2	48.4
LU	42.4	48.7	54.1	64.0	63.3	62.8
HU	102.5	101.7	112.9	137.0	142.9	141.7
MT	6.6	7.8	10.2	14.7	15.0	16.6
NL	623.8	668.8	699.2	786.7	826.1	821.1
AT	304.0	324.4	342.1	365.8	385.1	381.4
PL	295.7	370.4	432.5	545.4	574.0	575.4
PT	182.2	187.7	179.4	193.8	207.3	212.7
RO	121.6	139.8	160.3	200.0	207.9	212.9
SI	34.4	37.7	38.5	46.9	48.1	49.3
SK	55.3	70.9	80.4	92.4	92.8	94.8
FI	201.1	210.6	210.2	228.7	230.4	228.3
SE	376.1	407.7	452.3	507.2	513.6	512.5

*Units in Milliard - Long Scale = 1000 Millions Euro
Source: DG Economic and Financial Affairs, AMECO, April 2025
Source: Eurostat, Demography and migration, April 2025
Methodology and Notes in the annexes

3.3.4 GDP per Capita at 2015 Market Prices

GDP PER CAPITA AT 2015 MARKET PRICES

Thousand EUR/cap*	2005	2010	2015	2021	2022	2023
EU27_2020	25.7	26.6	27.8	30.2	31.2	31.3
BE	34.9	36.2	37.0	39.0	40.4	40.5
BG	4.7	5.8	6.5	8.2	8.6	8.8
CZ	13.7	15.0	16.2	18.4	18.9	18.3
DK	47.0	46.3	48.1	53.7	53.6	53.4
DE	32.5	34.7	38.0	39.7	40.4	40.1
EE	13.2	13.2	0.3	0.3	0.3	0.3
IE	46.1	42.5	207.1	321.3	345.0	327.9
EL	19.8	19.4	37.5	36.2	37.6	37.6
ES	23.9	23.3	100.1	106.9	115.9	119.5
FR	31.7	32.2	47.4	49.1	50.3	50.4
HR	10.3	10.7	0.7	0.8	0.8	0.9
IT	30.2	28.8	397.8	441.8	466.7	471.5
CY	23.3	23.8	0.3	0.4	0.4	0.5
LV	9.1	9.4	27.6	29.8	29.9	30.1
LT	8.7	9.7	18.9	24.8	25.7	25.7
LU	92.0	97.0	18.5	22.8	22.5	22.0
HU	10.1	10.2	200.5	215.9	221.4	214.4
MT	16.4	18.7	1.0	1.5	1.6	1.7
NL	38.3	40.3	1593.4	1524.2	1588.0	1514.8
AT	37.1	38.8	20.2	20.9	21.9	21.4
PL	7.7	9.7	50.4	61.1	63.9	63.2
PT	17.4	17.8	4.7	5.2	5.6	5.8
RO	5.7	6.9	15.4	19.2	20.0	20.2
SI	17.2	18.4	1.9	2.4	2.5	2.6
SK	10.3	13.2	39.0	43.8	44.0	44.8
FI	38.4	39.3	38.8	41.9	42.4	42.0
SE	41.7	43.6	82.7	91.7	92.6	92.1

* 1000 €' 2010 per Capita
Source: DG Economic and Financial Affairs, AMECO, April 2025
Source: Eurostat, Demography and migration, April 2025
Methodology and Notes in the annexes

3.4 Demography

3.4.1 Population

POPULATION ON 1ST JANUARY

1000 Inhabitants	2005	2010	2015	2021	2022	2023
EU27_2020	434416.3	440660.4	442911.0	445872.5	445972.0	447695.4
BE	10445.9	10839.9	11237.3	11554.8	11617.6	11742.8
BG	7688.6	7421.8	7029.7	6532.1	6482.5	6447.7
CZ	10198.9	10462.1	10538.3	10494.8	10516.7	10827.5
DK	5411.4	5534.7	5659.7	5840.0	5873.4	5932.7
DE	82500.8	81802.3	81197.5	83155.0	83237.1	83118.5
EE	1358.9	1333.3	81197.5	83155.0	83237.1	83118.5
IE	4111.7	4549.4	1314.9	1330.1	1331.8	1365.9
EL	10969.9	11119.3	4677.6	5066.9	5154.3	5271.4
ES	43296.3	46486.6	10858.0	10678.6	10459.8	10414.0
FR	62772.9	64658.9	46425.7	47400.8	47486.8	48085.4
HR	4310.9	4302.8	66458.2	67728.6	68091.7	68277.2
IT	58044.4	59690.3	4180.9	3893.0	3862.3	3850.9
CY	733.1	819.1	60295.5	59236.2	59030.1	58997.2
LV	2249.7	2120.5	860.8	914.5	929.8	949.1
LT	3355.2	3142.0	1986.1	1893.2	1875.8	1883.0
LU	461.2	502.1	2926.6	2810.8	2806.0	2857.3
HU	10097.5	10014.3	563.0	634.7	645.4	660.8
MT	402.7	414.0	9815.9	9651.5	9610.4	9599.7
NL	16305.5	16575.0	438.8	516.1	520.2	542.1
AT	8201.4	8351.6	16900.7	17475.4	17590.7	17811.3
PL	38173.8	38022.9	8584.9	8932.7	8978.9	9104.8
PT	10494.7	10573.5	38005.6	37073.4	36889.8	36753.7
RO	21382.4	20294.7	10395.1	10394.3	10421.1	10516.6
SI	1997.6	2047.0	19870.6	19201.7	19042.5	19054.5
SK	5372.7	5390.4	2062.9	2109.0	2107.2	2117.0
FI	5236.6	5351.4	5421.3	5459.8	5434.7	5428.8
SE	9011.4	9340.7	5471.8	5533.8	5548.2	5564.0

Source: Eurostat, Demography and migration, April 2025

Methodology and Notes in the annexes

3.5 Employment

3.5.1 Total Persons Employed

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

[thousands]	2015	2021	2022	2023
B05 - Mining of coal and lignite	288.6	210.5	178.3	167.7
B06 - Extraction of crude petroleum and natural gas	64.3	56.6	48.7	45.3
B0892 - Extraction of peat*	8.6	8.8	7.4	*7.4*
B091 - Support activities for petroleum and natural gas extraction*	19.8	20.5	16.2	*16.2*
C19 - Manufacture of coke and refined petroleum products	160.7	144.4	147.8	162.2
D35 - Electricity, gas, steam and air conditioning supply	1 370.3	1 502.9	1 475.6	1 565.1
Broad Sector - Total Employment**	1 912.3	1 943.7	1 874.0	*1 963.9*

*According to Structural Business Statistics Survey (SBS), May 2025

**Estimate of total emplo yment as a sum of available figures presented in the table
Italics, blue: DG ENER estimates
Source: Eurostat, Labour Force Sourvey (LFS), April 2025
Methodology and Notes in the annexes

3.5.2 Employment Rate

EMPLOYMENT RATE IN ALL ECONOMIC SECTORS (15-64 YEARS)* MEMBER STATES' DATA - ALL SECTORS

%	2005	2010	2015	2021	2022	2023
EU27_2020	68.8	69.7	71.5	73.6	74.5	75.0
BE	66.7	67.7	67.7	69.7	70.5	70.5
BG	62.1	66.5	69.2	72.0	73.7	73.9
CZ	70.4	70.2	74.0	76.6	77.2	77.1
DK	79.8	78.0	76.9	79.6	80.4	80.8
DE	73.8	75.4	76.4	78.5	79.3	79.7
EE	70.7	74.6	77.0	79.1	81.2	81.6
IE	73.9	71.6	72.0	74.6	76.8	77.5
EL	66.4	67.7	67.7	67.3	69.4	69.5
ES	70.0	73.5	74.3	73.7	74.0	74.5
FR	69.7	71.0	72.2	73.0	73.6	73.9
HR	63.3	65.1	66.9	68.7	69.9	70.1
IT	62.5	61.6	63.8	64.5	65.5	66.7
CY	72.4	73.6	73.9	76.7	78.2	79.0
LV	69.1	72.7	75.7	75.8	76.8	76.6
LT	68.7	70.2	74.1	78.2	78.6	78.8
LU	66.6	68.2	70.9	73.2	73.5	74.1
HU	61.3	64.0	70.5	76.2	77.2	78.0
MT	57.6	60.4	68.8	77.1	79.3	80.7
NL	75.1	80.4	82.1	83.7	84.7	85.5
AT	71.4	74.7	75.8	77.2	77.8	78.2
PL	64.4	63.4	66.8	72.9	73.6	74.5
PT	73.2	71.5	72.3	74.9	76.2	77.6
RO	62.3	57.4	59.9	65.6	66.8	66.8
SI	70.7	70.8	71.2	75.0	76.2	75.2
SK	68.9	70.5	72.9	74.6	76.1	76.5
FI	74.7	73.5	74.8	78.8	79.8	79.9
SE	78.2	78.8	81.5	82.6	83.3	84.0

*Percentage of active population
Source: Eurostat, Labour Force Sourvey (LFS), April 2025
Methodology and Notes in the annexes

3.5.3 Uneployment Rate

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

%	2005	2010	2015	2021	2022	2023
EU27_2020	9.6	10.1	10.2	7.1	6.2	6.1
BE	8.5	8.4	8.7	6.3	5.6	5.5
BG	10.1	11.3	10.1	5.3	4.2	4.3
CZ	7.9	7.3	5.1	2.8	2.2	2.6
DK	4.8	7.7	6.3	5.1	4.5	5.1
DE	11.2	6.6	4.4	3.7	3.2	3.1
EE	8.0	16.6	6.4	6.2	5.6	6.4
IE	4.6	14.6	9.9	6.2	4.5	4.3
EL	10.0	12.9	25.0	14.7	12.5	11.1
ES	9.2	19.9	22.1	14.9	13.0	12.2
FR	8.5	8.9	10.1	7.6	7.0	6.1
HR	12.8	11.7	16.2	7.6	7.0	6.1
IT	7.7	8.5	12.0	9.5	8.1	7.7
CY	5.3	6.3	15.0	7.5	6.8	6.1
LV	10.0	19.7	9.9	7.6	6.9	6.5
LT	8.3	17.8	9.1	7.1	6.0	6.9
LU	4.5	4.4	6.7	5.3	4.6	5.2
HU	7.2	10.8	6.6	4.1	3.6	4.1
MT	6.9	6.9	5.4	3.8	3.5	3.1
NL	5.9	6.1	7.9	4.2	3.5	3.6
AT	5.6	5.2	6.1	6.2	4.8	5.1
PL	17.8	10.0	7.7	3.4	2.9	2.8
PT	7.7	12.6	13.0	6.7	6.2	6.5
RO	7.2	9.0	8.4	5.6	5.6	5.6
SI	6.5	7.3	9.0	4.8	4.0	3.7
SK	16.3	14.3	11.5	6.8	6.1	5.8
FI	8.4	8.6	9.4	7.7	6.8	7.2
SE	7.5	8.7	7.5	8.9	7.5	7.7

*Percentage of active population

Source: Eurostat, Labour Force Sourvey (LFS), April 2025

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4 Environmental Indicators in the EU

4 Environmental Indicators in the EU

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4.1 Gases Emissions

4.1.1 Greenhouse gas (GHG) Emissions

GHG EMISSIONS – NATIONAL TOTAL*

[Million ton CO_2 equiv.]	1990	2010	2019	2021	2022	2023
EU27_2020	4872.6	4176.6	3587.8	3464.6	3375.5	3105.6
Index1990	100.0%	85.7%	73.6%	71.1%	69.3%	63.7%
BE	145.6	133.3	116.3	109.8	103.0	98.2
BG	99.0	59.4	54.0	54.1	58.5	45.4
CZ	196.3	139.8	121.5	117.4	115.0	102.5
DK	72.5	65.7	46.1	44.4	42.8	39.3
DE	1252.4	930.2	798.0	761.4	748.8	672.0
EE	40.3	21.1	14.5	12.6	14.1	10.9
IE	55.7	61.8	59.8	60.2	59.0	54.9
EL	104.0	119.2	86.3	78.0	77.8	71.9
ES	286.7	353.6	308.9	287.6	292.3	270.0
FR	546.6	512.7	436.1	419.8	403.4	376.4
HR	31.6	28.3	24.8	24.4	24.5	25.4
IT	522.8	522.9	417.4	412.2	412.9	384.7
CY	5.6	9.4	8.4	8.2	8.3	8.5
LV	26.1	11.9	11.1	10.7	10.1	10.0
LT	47.5	20.3	19.7	19.8	18.4	17.9
LU	12.8	12.2	10.8	9.4	8.2	7.8
HU	94.9	66.8	64.9	64.0	59.7	54.3
MT	2.6	3.0	2.1	2.1	2.3	2.2
NL	223.1	214.9	181.5	167.2	153.6	142.6
AT	79.6	85.4	80.6	78.1	73.5	68.7
PL	476.1	406.0	386.2	399.3	380.8	348.4
PT	58.9	68.9	63.6	56.2	56.4	53.2
RO	256.6	124.8	115.3	115.4	109.7	103.9
SI	18.8	19.7	17.1	16.0	15.6	14.8
SK	73.5	45.5	39.7	40.9	36.9	36.1
FI	71.8	75.7	52.7	47.8	45.7	41.1
SE	71.2	64.1	50.2	47.7	44.2	44.4

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

Source: EEA, June 2025, Eurostat 2025
Methodology and Notes: **see appendices**

4.1.1 Greenhouse gas (GHG) Emissions

GHG EMISSIONS - ENERGY

[Million ton CO_2 equiv.]	2023								
		of which:							
	Energy	Energy Industries	Manufacturing Industries and Construction	Transport	Commercial/Institutional	Residential	Agriculture/Forestry/Fisheries	Other Sectors	Other Combustion and Fugitive Emissions
EU27_2020	2750.3	699.5	363.4	794.4	445.1	101.9	268.3	74.9	2.8
Share [%]	116.3%	29.6%	15.4%	33.6%	18.8%	4.3%	11.3%	3.2%	0.1%
BE	92.3	15.6	12.2	24.7	19.9	4.5	12.8	2.5	0.1
BG	32.5	15.8	3.8	10.2	1.3	0.4	0.5	0.5	0.0
CZ	85.5	35.7	10.1	19.9	9.8	2.1	6.6	1.2	0.3
DK	27.9	6.5	3.0	11.8	3.1	0.6	1.1	1.4	0.3
DE	670.9	198.1	105.8	146.1	110.3	23.1	79.0	8.2	0.4
EE	9.1	5.5	0.2	2.6	0.4	0.2	0.2	0.1	:
IE	38.8	7.8	4.2	11.8	7.6	1.4	5.3	0.8	:
EL	53.3	20.9	4.3	17.5	5.1	0.6	3.9	0.5	0.4
ES	234.8	41.5	34.9	87.7	35.1	8.8	14.1	12.2	0.5
FR	311.3	34.0	35.9	123.4	59.0	16.3	31.8	10.9	:
HR	20.3	4.1	2.5	7.6	3.1	0.5	1.8	0.8	:
IT	373.2	75.5	50.5	109.0	68.9	21.4	39.9	7.6	0.4
CY	6.7	3.1	0.6	2.2	0.5	0.1	0.3	0.1	0.0
LV	7.8	1.0	0.6	3.1	1.5	0.5	0.5	0.5	0.0
LT	12.5	2.4	1.1	6.1	1.4	0.3	0.9	0.2	0.0
LU	8.0	0.2	0.9	4.1	1.4	0.5	0.9	0.0	0.0
HU	47.4	9.3	4.1	14.0	10.1	2.0	6.7	1.3	0.0
MT	1.9	0.8	0.1	0.8	0.1	0.1	0.0	0.1	0.0
NL	132.3	37.4	17.1	26.5	25.5	5.4	11.7	8.4	0.2
AT	51.3	7.3	9.6	19.8	7.3	1.0	5.3	0.9	0.0
PL	316.5	127.6	26.4	68.3	47.1	5.4	30.9	10.9	:
PT	38.3	5.8	6.0	18.2	4.1	1.2	1.6	1.3	0.0
RO	73.3	15.5	11.5	22.1	12.1	2.3	8.1	1.7	:
SI	12.7	3.3	1.5	5.4	1.3	0.3	0.7	0.2	0.0
SK	28.6	6.4	5.7	7.7	4.4	1.3	2.8	0.3	0.0
FI	30.7	10.1	5.1	9.4	3.1	1.1	0.6	1.3	:
SE	32.3	8.4	5.8	14.2	2.0	0.5	0.4	1.0	:

Source: EEA, June 2025, Eurostat 2025
Methodology and Notes: see appendices

4.1.1 Greenhouse gas (GHG) Emissions

GHG EMISSIONS - NOT ENERGY RELATED

[Million ton CO_2 equiv.]	2023					
	GHG emissions other than from energy	*of which:* Industrial Processes and Product Use	Agriculture	Waste and Others	Indirect CO_2	International aviation
EU27_2020	192.0	122.2	264.8	-198.4	3.4	25.1
Share [%]	100.0%	63.6%	137.9%	-103.3%	1.8%	
BE	37.4	22.4	15.3	-0.3	:	0.0
BG	-4.5	0.2	3.9	-8.6	:	0.7
CZ	9.6	0.0	12.7	-3.6	0.4	0.6
DK	2.9	1.6	1.6	-0.5	0.3	0.0
DE	119.3	3.5	47.2	68.7	:	0.8
EE	3.1	0.7	0.3	2.1	:	0.0
IE	7.1	0.4	2.8	3.9	:	0.0
EL	11.8	6.8	9.1	-4.1	:	0.3
ES	-3.8	27.3	19.9	-51.0	:	0.1
FR	0.9	3.4	34.1	-37.4	0.8	0.0
HR	-1.9	0.1	3.5	-5.5	:	0.0
IT	-25.6	4.6	22.6	-53.6	0.9	0.0
CY	1.8	0.7	1.4	-0.3	0.0	0.0
LV	5.6	0.1	0.9	4.6	0.0	0.0
LT	-2.8	0.4	2.0	-5.3	0.0	0.0
LU	-0.3	0.0	0.4	-0.7	:	0.0
HU	-0.3	0.0	5.5	-5.8	:	0.0
MT	7.5	7.3	0.2	0.0	:	0.0
NL	50.9	33.6	13.1	3.8	0.4	0.1
AT	23.0	0.0	15.5	7.5	:	0.0
PL	-11.9	0.8	19.6	-32.7	0.4	16.3
PT	5.1	1.8	5.2	-2.0	0.1	0.0
RO	-37.9	0.1	8.4	-46.4	:	5.6
SI	-3.3	0.0	1.0	-4.3	:	0.3
SK	-0.4	0.0	7.3	-7.8	0.0	0.2
FI	17.7	0.9	4.7	12.0	0.0	0.0
SE	-19.2	5.4	6.6	-31.2	:	0.0

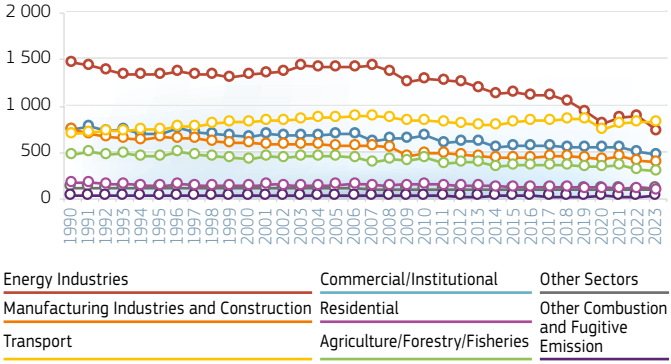
Source: EEA, June 2025, Eurostat 2025
Methodology and Notes: **see appendices**

4.1.1 Greenhouse gas (GHG) Emissions

GHG EMISSIONS – NATIONAL TOTAL AND ENERGY RELATED EU27_2020

[Million ton CO_2 equiv.]	GHG Greenhouse gases (CO_2, N_2O *)	of which: Energy	Energy Industries	Manufacturing Industries and Construction	Transport	Commercial/Institutional	Residential	Agriculture/Forestry/Fisheries	Other Sectors	Other Combustion and Fugitive Emission
1990	4873	3740.1	1441.5	721.1	674.0	714.1	172.2	450.1	91.8	8.2
1995	4563	3514.7	1318.2	638.0	726.1	678.6	149.1	438.0	91.5	5.8
2000	4455	3447.4	1303.8	578.6	799.3	639.0	144.2	407.8	87.0	3.8
2005	4546	3564.5	1385.3	549.5	844.2	670.1	158.1	426.2	85.7	4.5
2010	4177	3290.0	1256.5	469.5	816.1	652.2	158.9	412.0	81.3	3.3
2011	4067	3187.4	1245.4	460.1	806.8	579.8	139.6	359.9	80.3	3.2
2012	3996	3135.6	1229.5	443.3	777.0	592.4	140.5	373.6	78.3	2.5
2013	3907	3052.4	1167.5	425.9	771.0	595.7	142.3	375.2	78.2	2.7
2014	3765	2902.6	1106.8	410.7	774.2	521.7	127.2	316.6	77.8	2.8
2015	3813	2962.4	1115.1	419.0	794.3	545.2	132.4	335.9	76.9	2.8
2016	3810	2956.3	1090.4	423.1	811.0	547.0	124.8	345.3	76.9	2.8
2017	3831	2971.5	1086.4	430.8	823.5	546.7	127.5	342.0	77.2	2.6
2018	3750	2902.0	1024.3	429.9	830.9	536.7	124.3	333.7	78.7	2.2
2019	3588	2758.2	905.0	417.9	834.2	527.3	121.6	327.6	78.0	2.5
2020	3297	2489.9	778.3	398.1	722.0	522.6	115.1	327.5	79.9	2.8
2021	3465	2651.2	841.7	427.5	780.2	534.5	119.0	335.5	80.0	2.4
2022	3376	2603.7	866.7	391.7	804.3	475.6	107.3	294.1	74.2	2.5
2023	3106	2364.0	699.5	363.4	794.4	445.1	101.9	268.3	74.9	2.8

GHGS EMISSIONS – EU27_2020 – FUEL COMBUSTION (Million ton CO_2 equiv.)



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

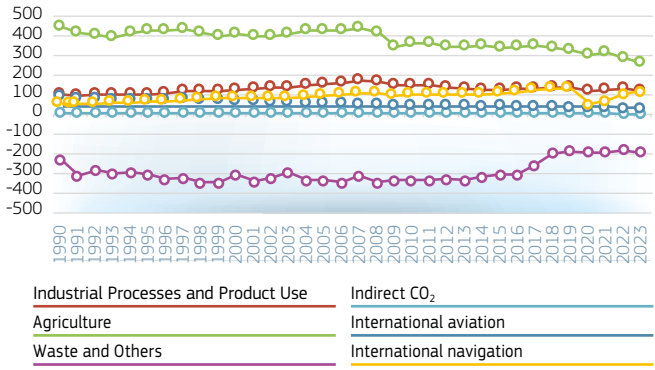
Source: EEA, June 2025, Eurostat 2025
Methodology and Notes: see appendices

4.1.1 Greenhouse gas (GHG) Emissions

GHG EMISSIONS - NOT ENERGY RELATED EU27_2020

[Million ton CO_2 equiv.]	GHG Greenhouse gases (CO_2, N_2O	GHG emissions other than from energy	*of which:* Industrial Processes and Product Use	Agriculture	Waste and Others	Indirect CO_2	International aviation	International navigation
1990	4873	321.5	100.9	450.4	-237.3	7.6	89.4	54.6
1995	4563	222.8	101.5	430.1	-315.7	6.9	73.2	66.3
2000	4455	229.3	126.8	414.1	-317.9	6.3	66.9	85.5
2005	4546	240.9	153.3	429.1	-347.1	5.7	54.5	96.4
2010	4177	173.9	151.2	363.6	-345.8	4.8	42.0	100.6
2011	4067	170.7	149.9	363.2	-347.2	4.8	41.6	102.9
2012	3996	153.8	139.5	348.0	-338.2	4.5	42.0	101.8
2013	3907	133.5	131.7	344.9	-347.3	4.3	40.1	102.7
2014	3765	154.5	127.9	351.7	-329.3	4.2	38.9	104.7
2015	3813	153.8	126.0	342.3	-318.7	4.1	39.7	108.1
2016	3810	163.2	132.3	344.8	-317.9	4.0	37.5	114.7
2017	3831	223.5	134.2	351.2	-266.0	4.0	37.0	123.8
2018	3750	282.2	137.4	344.1	-203.1	3.9	34.9	130.1
2019	3588	278.9	136.2	331.2	-192.3	3.8	30.2	132.7
2020	3297	238.4	120.9	307.5	-193.8	3.9	28.3	56.0
2021	3465	252.6	126.8	317.9	-196.0	3.9	28.0	69.9
2022	3376	242.0	131.3	290.3	-183.3	3.6	27.0	110.1
2023	3106	192.0	122.2	264.8	-198.4	3.4	25.1	122.7

GHGS EMISSIONS - EU27_2020 - OTHER THAN FUEL COMBUSTION (Million ton CO_2 equiv.)



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

Source: EEA, June 2025, Eurostat 2025
Methodology and Notes: see appendices

4.1.2 CO_2 Emissions

CO_2 EMISSIONS – NATIONAL TOTAL*

[Million ton CO_2]	1990	2010	2019	2021	2022	2023
EU27_2020	3881.0	3438.3	2918.2	2814.0	2747.2	2492.9
Index1990	100.0%	88.6%	75.2%	72.5%	70.8%	64.2%
BE	120.3	114.6	99.8	94.9	88.9	84.7
BG	76.7	47.9	42.3	42.4	47.0	34.5
CZ	165.9	118.3	101.5	97.2	95.5	83.7
DK	54.6	49.7	31.2	29.8	28.6	26.1
DE	1054.8	826.7	708.6	678.0	667.8	593.8
EE	36.9	19.0	12.3	10.4	12.0	8.7
IE	32.9	41.8	37.2	37.5	36.7	33.6
EL	83.4	97.4	65.7	57.5	57.6	52.0
ES	229.4	282.6	250.7	228.8	234.2	215.5
FR	399.8	387.3	326.7	316.8	304.9	279.7
HR	22.9	21.0	17.8	17.4	17.6	18.5
IT	439.6	436.7	340.5	336.8	340.9	313.1
CY	4.7	8.1	7.3	7.0	7.1	7.2
LV	19.7	8.6	7.6	7.2	6.6	6.6
LT	35.8	13.8	13.7	13.8	12.9	12.5
LU	11.8	11.2	9.7	8.4	7.3	6.8
HU	73.4	52.0	49.2	48.3	45.3	40.3
MT	2.4	2.6	1.6	1.6	1.8	1.8
NL	163.9	182.9	153.2	140.4	128.0	117.4
AT	62.2	72.0	68.0	65.8	61.5	56.9
PL	376.6	334.6	317.9	331.2	315.3	283.6
PT	45.4	53.1	47.7	40.5	40.9	37.7
RO	176.5	84.5	76.7	77.5	73.2	67.9
SI	15.1	16.5	14.1	13.1	12.7	12.0
SK	61.6	38.5	33.9	35.3	31.6	30.8
FI	57.1	64.2	42.5	37.9	36.4	31.8
SE	57.4	53.0	40.8	38.6	35.1	35.5

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

Source: EEA, June 2025, Eurostat 2025
Methodology and Notes: see appendices

4.1.2 CO_2 Emissions

CO_2 EMISSIONS - ENERGY

[Million ton CO_2]	2023								
		of which:							
	Energy	Energy Industries	Manufacturing Industries and Construction	Transport	Commercial/Institutional	Residential	Agriculture/Forestry/Fisheries	Other Sectors	Other Combustion and Fugitive Emissions
EU27_2020	2 682.4	691.6	358.3	785.7	422.0	100.6	251.6	69.8	2.7
Share [%]	100.0%	30.3%	15.7%	34.4%	18.5%	4.4%	11.0%	3.1%	0.1%
BE	90.7	15.5	12.1	24.4	19.3	4.5	12.5	2.3	0.1
BG	31.6	15.7	3.8	10.0	1.0	0.3	0.3	0.5	0.0
CZ	83.0	35.5	10.0	19.7	8.8	2.0	5.6	1.1	0.3
DK	27.2	6.4	3.0	11.7	2.9	0.6	0.9	1.4	0.3
DE	661.1	193.9	104.9	144.5	108.7	22.9	77.9	7.9	0.4
EE	9.0	5.4	0.2	2.6	0.4	0.2	0.2	0.1	0.0
IE	38.2	7.7	4.1	11.7	7.4	1.4	5.2	0.8	0.0
EL	52.3	20.9	4.3	17.3	4.7	0.6	3.6	0.5	0.3
ES	230.2	41.0	33.9	86.8	34.0	8.7	13.3	12.1	0.5
FR	302.9	33.8	35.3	122.2	55.8	16.2	29.6	10.0	0.0
HR	19.2	4.1	2.4	7.5	2.6	0.5	1.4	0.7	0.0
IT	361.9	75.1	49.5	107.9	64.4	21.0	36.5	7.0	0.4
CY	6.6	3.0	0.6	2.1	0.4	0.1	0.3	0.1	0.0
LV	7.2	1.0	0.6	3.1	1.2	0.4	0.4	0.4	0.0
LT	12.1	2.3	1.1	6.1	1.3	0.3	0.7	0.2	0.0
LU	7.9	0.2	0.9	4.0	1.4	0.5	0.9	0.0	0.0
HU	46.1	9.2	4.0	13.8	9.5	2.0	6.2	1.3	0.0
MT	1.9	0.8	0.1	0.8	0.1	0.1	0.0	0.0	0.0
NL	128.6	37.1	17.0	26.2	24.1	5.4	11.4	7.3	0.2
AT	50.0	7.2	9.5	19.6	6.9	1.0	5.0	0.8	0.0
PL	306.0	127.0	26.2	67.6	42.6	5.3	27.6	9.8	0.0
PT	37.1	5.8	5.8	18.1	3.7	1.2	1.3	1.3	0.0
RO	70.1	15.5	11.4	21.8	10.7	2.3	6.9	1.5	:
SI	12.3	3.3	1.5	5.3	1.1	0.3	0.6	0.2	0.0
SK	28.0	6.4	5.6	7.6	4.2	1.3	2.6	0.3	0.0
FI	29.8	9.9	4.9	9.4	2.8	1.1	0.4	1.3	0.0
SE	31.5	8.2	5.7	14.0	1.8	0.5	0.4	1.0	0.0

Source: EEA, June 2025, Eurostat 2025
Methodology and Notes: see appendices

4.1.2 CO_2 Emissions

CO_2 EMISSIONS - NOT ENERGY RELATED

[Million ton CO_2]	2023					
	CO_2 emissions other than from energy	*of which:* Industrial Processes and Product Use	Agriculture	Waste and Others	Indirect CO_2	International aviation
EU27_2020	94.0	120.8	196.3	-226.5	3.4	3.0
Share [%]	100.0%	128.4%	208.8%	-240.9%	3.7%	
BE	34.7	22.2	12.8	-0.4	0.0	0.0
BG	-5.4	0.2	3.1	-8.7	0.0	0.0
CZ	5.5	0.0	8.6	-3.6	0.4	0.0
DK	2.2	1.6	1.2	-0.9	0.3	0.0
DE	100.2	3.4	36.8	59.9	0.0	0.7
EE	2.6	0.7	0.1	1.8	0.0	0.0
IE	2.5	0.4	2.1	-0.1	:	0.0
EL	6.3	6.5	4.4	-4.7	0.0	0.0
ES	-9.1	27.0	15.3	-51.5	0.0	0.1
FR	-10.0	3.4	24.6	-38.9	0.8	0.0
HR	-4.1	0.1	1.5	-5.7	0.0	0.0
IT	-36.4	4.5	12.6	-54.4	0.9	0.0
CY	1.4	0.7	1.0	-0.3	0.0	0.0
LV	3.9	0.1	0.6	3.2	0.0	0.0
LT	-3.9	0.4	1.5	-5.7	0.0	0.0
LU	-0.3	0.0	0.4	-0.7	0.0	0.0
HU	-2.4	0.0	3.4	-5.9	:	0.0
MT	7.2	7.2	0.0	0.0	0.0	0.0
NL	48.0	33.2	11.3	3.1	0.4	0.1
AT	20.9	0.0	13.5	7.3	0.0	0.0
PL	-19.6	0.8	15.0	-35.8	0.4	2.0
PT	2.8	1.8	3.2	-2.2	0.1	0.0
RO	-40.1	0.1	6.4	-46.6	0.0	0.0
SI	-3.7	0.0	0.6	-4.3	:	0.1
SK	-1.0	0.0	6.7	-7.8	0.0	0.0
FI	14.0	0.9	3.9	9.2	0.0	0.0
SE	-22.0	5.3	5.6	-32.9	0.0	0.0

Source: EEA, June 2025, Eurostat 2025
Methodology and Notes: see appendices

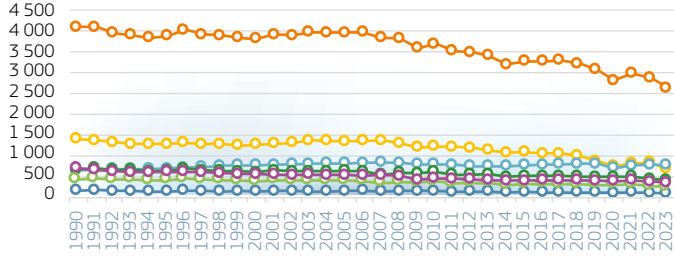
4.1.2 CO_2 Emissions

CO_2 EMISSIONS – NATIONAL TOTAL AND ENERGY RELATED* EU27_2020

[Million ton CO_2]	CO_2 emissions – National total*	*of which:*								
		Energy	Energy Industries	Manufacturing Industries and Construction	Transport	Commercial/Institutional	Residential	Agriculture/Forestry/Fisheries	Other Sectors	Other Combustion and Fugitive Emissions
1990	3881	4187.0	1434.0	715.5	662.0	683.7	169.6	426.5	87.6	8.1
1995	3648	3965.3	1310.9	632.8	712.4	651.8	147.8	417.3	86.7	5.7
2000	3613	3890.1	1296.3	573.1	787.3	614.9	143.0	389.5	82.4	3.7
2005	3748	4048.6	1376.5	543.1	834.7	644.9	156.9	407.0	81.1	4.4
2006	3766	4054.3	1383.8	532.2	851.6	641.3	163.0	400.1	78.2	4.0
2007	3716	3917.7	1394.5	541.8	855.1	561.2	139.7	346.5	75.0	3.9
2008	3640	3905.4	1328.6	522.9	841.7	604.2	152.5	376.2	75.6	3.9
2009	3344	3666.8	1229.6	432.3	815.8	592.8	151.7	367.3	73.8	3.6
2010	3438	3766.4	1246.8	464.1	807.8	622.3	157.4	389.0	75.9	3.2
2011	3341	3598.4	1235.7	454.6	798.5	553.2	138.1	340.1	75.0	3.2
2012	3272	3556.4	1219.5	437.9	768.9	563.9	138.9	351.7	73.2	2.4
2013	3190	3478.2	1157.7	420.5	762.9	567.2	140.9	353.3	73.1	2.6
2014	3052	3264.3	1097.3	405.5	766.1	496.3	125.9	297.6	72.8	2.7
2015	3108	3345.8	1105.4	413.6	785.9	519.1	131.2	316.0	71.9	2.8
2016	3108	3345.6	1080.7	417.7	802.4	521.0	123.5	325.6	71.9	2.8
2017	3132	3360.1	1076.6	425.2	814.7	520.5	126.2	322.3	72.0	2.5
2018	3063	3283.1	1014.7	424.2	821.9	510.1	122.9	313.8	73.3	2.2
2019	2918	3138.7	895.9	412.3	825.1	501.5	120.3	308.6	72.6	2.5
2020	2639	2874.0	769.8	392.6	714.0	497.4	113.8	309.2	74.4	2.8
2021	2814	3044.4	832.7	421.7	771.6	508.0	117.6	316.0	74.4	2.4
2022	2747	2945.1	857.7	386.3	795.5	451.5	106.0	276.3	69.2	2.5
2023	2493	2682.4	691.6	358.3	785.7	422.0	100.6	251.6	69.8	2.7

EU27_2020 – CO_2 EMISSIONS

Million ton CO_2



Energy
Energy Industries
Manufacturing Industries and Construction
Transport
Residential
Commercial/Institutional
Agriculture/Forestry/Fisheries

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

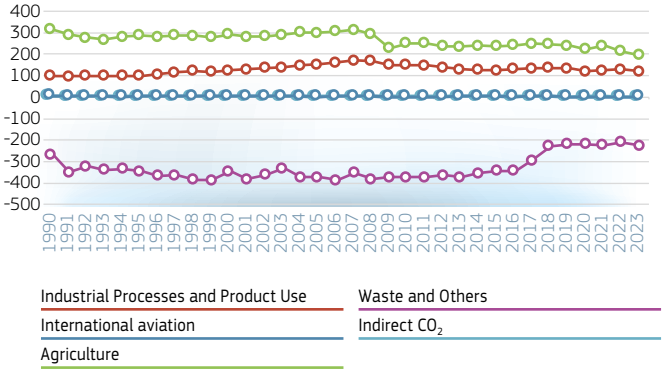
Source: EEA, June 2025, Eurostat 2025
Methodology and Notes: see appendices

4.1.2 CO_2 Emissions

CO_2 EMISSIONS – NOT ENERGY RELATED EU27_2020

[Million ton CO_2]	CO_2 emissions – National total*	CO_2 emissions other than from energy	*of which:* Industrial Processes and Product U	Agriculture	Waste and Others	Indirect CO_2	International aviation	International navigation
1990	3881.0	156.2	99.7	315.5	-266.7	7.6	6.8	54.2
1995	3647.7	49.7	100.3	288.2	-345.6	6.9	4.5	65.7
2000	3612.9	78.8	125.4	292.9	-345.8	6.3	4.7	84.8
2005	3748.4	83.3	151.7	299.8	-373.9	5.7	3.7	95.6
2006	3765.7	89.1	162.5	306.6	-385.8	5.8	4.4	100.7
2007	3715.7	136.7	170.0	313.6	-352.4	5.6	4.1	105.3
2008	3639.8	83.7	167.7	293.6	-383.1	5.4	3.9	106.8
2009	3344.4	10.9	149.3	228.9	-372.3	4.9	2.9	98.2
2010	3438.3	34.5	149.7	251.9	-371.8	4.8	3.7	99.8
2011	3341.0	32.9	148.4	252.6	-372.9	4.8	3.7	102.1
2012	3272.3	15.0	138.1	237.1	-364.6	4.5	3.8	100.9
2013	3189.8	-3.0	130.3	234.5	-372.1	4.3	4.2	101.9
2014	3052.0	17.7	126.6	240.7	-353.8	4.2	4.2	103.9
2015	3108.2	24.2	124.7	238.8	-343.5	4.1	3.9	107.3
2016	3107.9	33.3	130.9	241.4	-343.0	4.0	3.7	113.8
2017	3131.7	91.7	132.8	249.9	-295.0	4.0	3.9	122.8
2018	3062.6	159.9	136.0	247.7	-227.6	3.9	4.1	129.1
2019	2918.2	161.3	134.7	240.3	-217.4	3.8	3.7	131.7
2020	2639.4	128.8	119.5	224.2	-218.7	3.9	3.3	55.6
2021	2814.0	146.2	125.3	239.1	-222.1	3.9	3.5	69.4
2022	2747.2	139.6	129.8	215.7	-209.5	3.6	3.2	109.2
2023	2492.9	94.0	120.8	196.3	-226.5	3.4	3.0	121.7

CO_2 EMISSIONS – EU27_2020 – OTHER THAN FUEL COMBUSTION
MILLION TON CO_2



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

Source: EEA, June 2025, Eurostat 2025
Methodology and Notes: **see appendices**

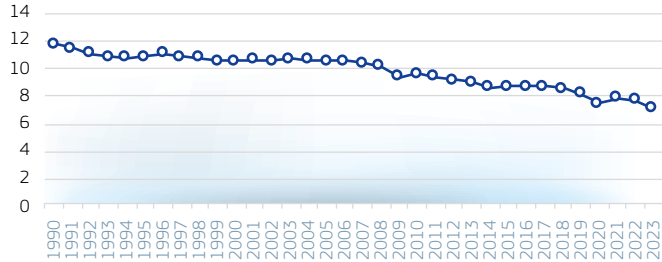
4.2 Main Emissions Indicators

4.2.1 Grenhouse Gas Emissions per Capita

MAIN EMISSIONS INDICATORS
GHG PER CAPITA

[t CO_2 eq./cap]	1990	2010	2019	2021	2022	2023
EU27_2020	11.7	9.5	8.0	7.8	7.6	6.9
Index1990	100.0%	81.3%	69.0%	66.7%	64.9%	59.5%
BE	14.6	12.3	10.2	9.5	8.9	8.4
BG	11.3	8.0	8.1	8.3	9.0	7.0
CZ	18.9	13.4	11.4	11.2	10.9	9.5
DK	14.1	11.9	7.9	7.6	7.3	6.6
DE	15.8	11.4	9.6	9.2	9.0	8.1
EE	25.6	15.8	11.0	9.4	10.6	8.0
IE	15.9	13.6	12.1	11.9	11.4	10.4
EL	10.3	10.7	8.0	7.3	7.4	6.9
ES	7.4	7.6	6.6	6.1	6.2	5.6
FR	9.4	7.9	6.5	6.2	5.9	5.5
HR	6.6	6.6	6.3	6.3	6.3	6.6
IT	9.2	8.8	7.0	7.0	7.0	6.5
CY	9.7	11.5	9.5	9.0	9.0	9.0
LV	9.8	5.6	5.8	5.7	5.4	5.3
LT	12.9	6.5	7.0	7.0	6.6	6.3
LU	33.6	24.3	17.5	14.8	12.7	11.8
HU	9.1	6.7	6.7	6.6	6.2	5.7
MT	7.5	7.2	4.3	4.1	4.3	4.1
NL	15.0	13.0	10.5	9.6	8.7	8.0
AT	10.4	10.2	9.1	8.7	8.2	7.5
PL	12.5	10.7	10.2	10.8	10.4	9.5
PT	5.9	6.5	6.2	5.4	5.4	5.1
RO	11.1	6.2	5.9	6.0	5.8	5.5
SI	9.4	9.6	8.2	7.6	7.4	7.0
SK	13.9	8.4	7.3	7.5	6.8	6.7
FI	14.4	14.1	9.6	8.6	8.2	7.4
SE	8.4	6.9	4.9	4.6	4.2	4.2

GHG PER CAPITA [t CO_2 eq./cap] EU27_2020



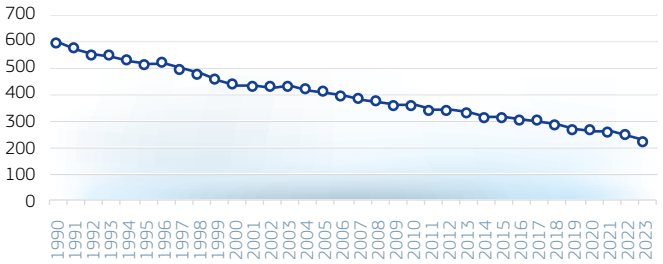
Source: EEA, June 2025, Eurostat 2025
Methodology and Notes: **see appendices**

4.2.2 Greenhouse Gas to GDP Intensity

MAIN EMISSIONS INDICATORS
GHG TO GDP INTENSITY

[t CO_2/M€'15]	1990	2010	2019	2021	2022	2023
EU27_2020	593.1	356.7	267.6	257.3	242.3	221.9
Index1990	100.0%	60.1%	45.1%	43.4%	40.8%	37.4%
BE	550.6	339.4	261.2	243.8	219.3	206.7
BG	2900.5	1385.5	1046.3	1005.1	1043.9	795.1
CZ	1824.1	887.9	620.3	608.3	579.4	516.6
DK	397.6	256.2	153.9	140.5	133.4	119.5
DE	594.1	327.7	241.0	231.3	224.4	201.9
EE	3039.7	1199.5	589.6	490.7	552.1	437.1
IE	766.3	319.6	174.3	141.0	127.0	125.3
EL	728.2	552.0	464.8	425.8	401.4	362.8
ES	431.4	326.9	257.0	251.8	241.1	216.8
FR	371.8	245.9	185.5	180.5	169.1	156.3
HR	768.0	616.7	481.2	458.7	429.2	430.5
IT	370.3	303.8	240.9	239.7	229.1	211.9
CY	632.5	483.9	370.2	333.7	317.3	314.7
LV	1259.5	598.8	421.3	392.9	364.1	349.2
LT	1706.8	667.0	446.6	420.4	382.4	369.9
LU	596.8	250.5	178.8	147.0	129.8	123.7
HU	1176.5	656.8	486.1	467.2	418.1	383.4
MT	717.0	382.5	158.6	143.1	147.6	137.4
NL	532.3	321.3	235.8	212.6	185.9	172.5
AT	367.1	263.4	216.4	213.5	190.9	180.1
PL	2704.5	1095.9	741.8	732.1	672.8	605.5
PT	453.9	367.1	318.1	289.9	272.1	250.3
RO	2474.0	893.0	586.1	576.8	527.4	487.7
SI	768.0	522.6	380.1	342.5	323.3	301.3
SK	1939.3	641.2	442.0	443.0	397.5	381.0
FI	510.6	359.6	230.8	209.0	198.3	180.1
SE	266.9	157.3	101.9	93.3	85.2	85.6

GHG TO GDP INTENSITY [t CO_2/M€'15] EU27_2020



Source: EEA, June 2025, Eurostat 2025
Methodology and Notes: **see appendices**

5 Country Profiles

5 Country Profiles

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Data sources: ESTAT database May 2020; EEA UNFCCC database Jun. 2020; ECFIN AMECO database May. 2020; ESTAT SHARES Mar. 2020; ESTAT CHP Survey, data 2017 Jul. 2020; ESTAT Market Survey Jun. 2020

5.1 European Union – 27 countries (from 2020)

Mtoe unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**675.9**	**696.0**	**618.1**	**598.2**	**563.0**	**553.1**
Solid fossil fuels	189.8	146.6	100.1	91.0	92.5	75.5
of which hard coal	99.7	62.8	37.1	33.2	31.1	28.4
of which brown coal	90.0	83.8	63.0	57.8	61.4	47.2
Oil and petroleum products	44.6	33.1	22.7	20.1	18.7	18.8
of which crude oil	42.4	30.8	20.4	18.1	16.8	15.9
Natural gas	112.2	109.5	52.2	37.9	34.9	29.4
Nuclear	222.1	219.6	196.2	186.7	155.5	158.0
Renewables and biofuels	96.0	168.8	227.5	244.5	243.4	254.3
Wastes, Non-Renewable	5.9	10.6	13.6	13.9	13.8	13.3
Net Imports	**866.0**	**895.5**	**908.1**	**812.0**	**873.2**	**781.5**
Solid fossil fuels	83.3	93.7	74.4	60.9	74.5	51.2
of which hard coal	79.0	92.0	74.6	61.4	74.9	52.9
Oil and petroleum products	578.5	550.2	527.3	458.9	502.6	477.8
of which crude oil and NGL	542.3	517.3	514.9	454.7	491.9	484.0
Natural gas	202.8	245.9	300.6	283.8	287.3	245.7
Renewables and biofuels	0.3	5.1	5.0	7.1	7.1	6.2
Electricity	0.8	0.4	0.3	0.6	1.1	0.0
Gross inland consumption	**1 498.2**	**1 559.7**	**1 458.6**	**1 421.7**	**1 354.6**	**1 299.9**
Solid fossil fuels	279.0	245.1	171.8	163.5	162.3	125.6
of which hard coal	182.7	159.4	109.7	103.8	100.6	79.3
of which brown coal	91.9	84.9	63.6	58.9	61.5	46.5
Oil and petroleum products	579.8	538.9	502.2	460.1	472.6	465.2
of which crude and NGL	586.0	548.2	532.8	478.0	504.0	502.5
Natural gas	308.6	362.8	335.1	339.1	294.2	272.6
Nuclear	222.1	219.6	196.2	186.7	155.5	158.0
Renewables and biofuels	96.4	174.0	232.5	252.0	249.4	260.6
Electricity	0.8	0.4	0.3	0.6	1.1	0.0
Waste, non-renewable	5.9	10.7	14.1	14.6	14.4	13.9
Available for final consumption	**1 022.4**	**1 073.8**	**1 033.8**	**976.1**	**1 030.2**	**975.3**
Final non-energy consumption	**101.4**	**98.3**	**90.5**	**89.9**	**92.2**	**77.5**
Final energy consumption	**926.1**	**973.9**	**939.2**	**886.3**	**940.7**	**903.0**
by Fuel/Product						
Solid fossil fuels	33.5	27.2	19.8	18.8	16.8	14.6
Oil and petroleum products	397.1	366.5	346.3	326.6	332.8	326.6
Natural gas	205.1	217.7	199.8	214.7	184.3	172.0
Renewables and biofuels	48.8	86.5	104.6	111.1	110.2	110.5
Solid biofuels and renewable waste	46.7	68.4	70.1	72.9	70.3	67.8
Solar thermal	0.5	1.5	2.4	2.5	2.7	2.6
Geothermal	0.4	0.4	0.6	0.6	0.6	0.6
Liquid biofuels	0.7	12.4	16.6	17.7	17.7	18.6
Biogases	0.3	1.4	2.6	2.6	2.6	2.6
Waste, non-renewable	1.0	2.8	4.7	5.0	5.1	4.8
Electricity	189.0	215.9	213.0	214.1	207.0	200.3
Heat	42.9	51.6	46.0	45.6	42.2	40.2
by Sector						
Industry	271.0	243.9	240.4	242.6	226.9	214.7
Transport	262.9	280.0	289.2	272.6	280.6	279.3
Residential	248.6	279.6	248.5	262.0	242.3	229.3
Services	104.8	140.0	128.3	129.6	121.1	117.9
Agriculture and Fishing	28.4	26.7	29.4	30.1	28.1	27.8
Others	10.5	3.7	3.4	3.7	4.1	4.3

Methodology and Notes: **see appendices**

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	613.2	790.0	946.9	993.7	1040.8	1109.7
Combustible Fuels	340.1	414.8	396.0	382.1	381.6	381.0
Nuclear	124.9	120.9	110.0	105.2	100.3	101.0
Hydro	134.7	143.0	150.8	151.4	152.6	153.2
Wind	12.3	79.0	167.1	187.8	203.6	218.9
Solar	0.2	30.5	120.0	164.1	196.7	247.1
Geothermal	0.6	0.8	0.9	0.9	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]	2658.3	2984.1	2907.2	2916.1	2822.9	2748.6
Solid fossil fuels, peat and products, oil shale	813.9	721.6	460.4	425.1	456.1	322.6
Oil and petroleum products	172.9	82.1	52.0	46.7	55.7	48.4
Natural gas	362.7	622.1	599.6	581.5	563.9	482.1
Nuclear	859.9	854.5	765.3	731.7	609.3	619.6
Renewables and biofuels	407.0	652.6	978.2	1078.3	1081.0	1218.5
Wastes non-RES	11.6	17.4	21.5	21.3	21.0	20.2
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			133.3	129.2	129.4	134.9
CHP Electricity Generation [TWh]			348.4	346.4	313.2	289.0
CHP in Total Electricity Generation [%]			11.7	11.9	11.1	10.5
CHP Heat Production [PJ]			2629.2	2621.1	2557.6	2416.2
Transport Fuels [ktoe]						
Final consumption petroleum products	355244	337045	323760	306055	310654	304827
of which LPG	19465	18039	16540	15623	15929	15697
of which motor gasoline	110381	76821	67777	63876	67718	70319
of which Gas/Diesel oil	225397	242184	239443	226556	227007	218811
Final consumption biofuels	713	12442	16636	17661	17739	18622
pure and blended biogasoline	59	2496	2725	3056	3266	3580
pure and blended biodiesel	640	9701	13784	14442	14346	14906
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	1396.4	1458.3	1354.4	1313.1	1259.6	1208.5
Final energy consumption 2020-2030 [Mtoe]	954.6	1003.6	968.7	947.7	921.5	893.7
Primary Energy Intensity 2020-2030 [toe/M€'15]	136	125	101	98	90	86
Energy Intensity (GAE/GDP2015) [toe/M€'15	146	133	109	106	97	93
Energy per Capita (GIC/pop) [kgoe/capita]	3496	3539	3269	3189	3037	2904
Final Electricity per Capita [KWh/capita]	6204	6772	6516	6540	6330	6139
Import Dependency [%]	57.8%	57.4%	62.3%	57.1%	64.5%	60.1%
of Solid fossil fuels	29.8%	38.2%	43.3%	37.2%	45.9%	40.8%
of Hard Coal	43.2%	57.7%	68.0%	59.2%	74.5%	66.7%
of Oil and petroleum products	99.8%	102.1%	105.0%	99.7%	106.4%	102.7%
of Crude and NGL	92.5%	94.4%	96.6%	95.1%	97.6%	96.3%
of Natural Gas	65.7%	67.8%	89.7%	83.7%	97.6%	90.1%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		14.41%	19.89%	21.89%	23.06%	24.55%
RE-T - Renewable energy in Transport [%]		5.50%	8.80%	9.05%	9.63%	10.83%
RES-E - Renewable Electricity Generation [%]		21.28%	34.09%	37.78%	41.25%	45.30%
RES-H&C - Renewable Heating and Cooling [%]		16.99%	22.43%	23.03%	24.92%	26.24%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	3612.9	3438.3	2918.2	2814.0	2747.2	2492.9
GHG Greenhouse gases (CO_2, N_2O*	4454.9	4176.6	3587.8	3464.6	3375.5	3105.6
Main Emissions Indicators						
GHG total emissions [index 1990=100]	91.4%	85.7%	73.6%	71.1%	69.3%	63.7%
Total GHG per capita [t CO_2 eq./capita]	10.4	9.5	8.0	7.8	7.6	6.9

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.2 Belgium

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	13.4	15.0	15.1	17.3	15.8	13.6
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	12.4	11.6	10.6	12.2	10.7	7.9
Renewables and biofuels	0.5	2.5	3.6	4.2	4.3	4.8
Wastes, Non-Renewable	0.4	0.6	0.6	0.6	0.6	0.6
Net Imports	50.6	53.7	49.9	45.6	44.4	42.6
Solid fossil fuels	7.3	3.7	3.1	2.4	2.7	2.4
of which hard coal	6.6	3.7	2.5	2.0	2.1	1.8
Oil and petroleum products	29.6	32.5	30.6	27.7	28.1	27.1
of which crude oil and NGL	34.2	33.5	34.6	28.9	28.1	30.6
Natural gas	13.3	16.8	15.5	15.2	13.1	12.3
Renewables and biofuels	0.1	0.5	0.8	1.0	1.0	0.7
Electricity	0.4	0.0	-0.2	-0.7	-0.6	0.1
Gross inland consumption	59.4	60.7	56.1	56.8	52.3	49.1
Solid fossil fuels	8.0	3.8	3.1	2.6	2.7	2.3
of which hard coal	7.0	3.7	2.5	2.1	2.2	1.9
of which brown coal	0.2	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	24.2	24.5	22.0	21.3	20.3	20.2
of which crude and NGL	34.1	33.5	34.6	29.1	28.2	30.6
Natural gas	13.4	16.8	15.3	15.2	13.0	12.2
Nuclear	12.4	11.6	10.6	12.2	10.7	7.9
Renewables and biofuels	0.6	3.0	4.4	5.1	5.3	5.5
Electricity	0.4	0.0	-0.2	-0.7	-0.6	0.1
Waste, non-renewable	0.4	0.7	0.7	0.7	0.6	0.6
Available for final consumption	40.8	43.0	40.1	38.2	41.0	37.1
Final non-energy consumption	7.0	7.0	7.3	7.1	7.6	6.5
Final energy consumption	33.6	35.4	32.4	30.9	33.0	30.4
by Fuel/Product						
Solid fossil fuels	0.9	0.5	0.5	0.4	0.3	0.3
Oil and petroleum products	15.1	14.8	12.8	12.4	12.0	11.9
Natural gas	9.3	10.0	9.5	10.2	8.3	8.1
Renewables and biofuels	0.4	1.7	2.0	2.4	2.5	2.5
Solid biofuels and renewable waste	0.4	1.2	1.2	1.4	1.3	1.3
Solar thermal	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid biofuels	0.0	0.4	0.5	0.8	0.8	0.8
Biogases	0.0	0.0	0.1	0.1	0.1	0.1
Waste, non-renewable	0.1	0.2	0.2	0.2	0.2	0.1
Electricity	6.7	7.3	6.9	6.9	6.6	6.4
Heat	0.5	0.6	0.5	0.5	0.4	0.3
by Sector						
Industry	11.6	10.9	10.7	10.8	9.8	9.3
Transport	8.2	8.9	8.8	8.6	8.7	8.9
Residential	9.5	9.6	7.5	8.2	7.0	7.0
Services	3.5	5.0	4.4	4.5	4.0	3.8
Agriculture and Fishing	0.8	0.9	0.9	0.9	0.8	0.9
Others	0.1	0.1	0.0	0.0	0.0	0.0

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**15.7**	**18.6**	**23.8**	**26.2**	**26.7**	**27.3**
Combustible Fuels	8.5	9.5	8.1	8.0	8.2	8.0
Nuclear	5.7	5.9	5.9	5.9	4.9	3.9
Hydro	1.4	1.4	1.4	1.4	1.4	1.4
Wind	0.0	0.9	3.9	4.9	5.3	5.5
Solar	0.0	0.8	4.5	5.9	6.8	8.4
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]	**84.0**	**94.6**	**93.6**	**100.5**	**95.9**	**83.7**
Solid fossil fuels, peat and products, oil shale	12.9	4.2	0.1	0.0	0.1	0.0
Oil and petroleum products	0.8	0.4	0.1	0.2	0.3	0.2
Natural gas	19.1	32.6	28.0	24.5	24.2	20.1
Nuclear	48.2	47.9	43.5	50.3	43.9	32.9
Renewables and biofuels	1.0	6.7	19.5	22.7	24.4	27.5
Wastes non-RES	0.8	1.2	1.2	1.2	1.3	1.3
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			2.4	2.8	2.9	2.7
CHP Electricity Generation [TWh]			12.8	13.1	11.7	11.2
CHP in Total Electricity Generation [%]			13.7	13.1	12.2	13.4
CHP Heat Production [PJ]			94.8	95.0	88.0	84.9
Transport Fuels [ktoe]						
Final consumption petroleum products	13515	13265	11859	11248	11019	11087
of which LPG	414	337	460	474	453	490
of which motor gasoline	2359	1288	1851	1867	2120	2302
of which Gas/Diesel oil	10741	11639	9549	8907	8446	8295
Final consumption biofuels	0	384	490	779	808	819
pure and blended biogasoline	0	57	129	161	169	185
pure and blended biodiesel	0	316	359	617	639	634
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	52.4	53.4	48.4	48.7	45.2	42.1
Final energy consumption 2020-2030 [Mtoe]	35.1	36.8	34.0	34.4	31.9	31.3
Primary Energy Intensity 2020-2030 [toe/M€'15]	158	136	109	108	96	89
Energy Intensity (GAE/GDP2015) [toe/M€'15	179	154	126	126	111	103
Energy per Capita (GIC/pop) [kgoe/capita]	5805	5597	4898	4918	4502	4185
Final Electricity per Capita [KWh/capita]	8205	8728	8175	8696	8259	7125
Import Dependency [%]	**85.2%**	**88.5%**	**89.0%**	**80.3%**	**84.9%**	**86.8%**
of Solid fossil fuels	91.2%	97.5%	101.8%	92.2%	99.5%	101.1%
of Hard Coal	93.5%	100.0%	102.7%	93.0%	99.0%	95.8%
of Oil and petroleum products	122.3%	132.7%	139.2%	129.8%	138.4%	134.2%
of Crude and NGL	100.2%	99.9%	100.0%	99.2%	99.7%	99.9%
of Natural Gas	99.3%	100.3%	101.9%	99.9%	100.8%	100.9%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		6.00%	9.93%	13.08%	13.82%	14.74%
RE-T - Renewable energy in Transport [%]		4.80%	6.82%	10.32%	10.44%	12.09%
RES-E - Renewable Electricity Generation [%]		7.33%	20.82%	26.02%	29.10%	31.37%
RES-H&C - Renewable Heating and Cooling [%]		6.71%	8.32%	9.28%	10.56%	11.30%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	126.8	114.6	99.8	94.9	88.9	84.7
GHG Greenhouse gases (CO_2, N_2O*	148.4	133.3	116.3	109.8	103.0	98.2
Main Emissions Indicators						
GHG total emissions [index 1990=100]	101.9%	91.5%	79.9%	75.4%	70.7%	67.4%
Total GHG per capita [t CO_2 eq./capita]	14.5	12.3	10.2	9.5	8.9	8.4

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.3 Bulgaria

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**9.9**	**10.5**	**11.7**	**12.1**	**13.2**	**10.5**
Solid fossil fuels	4.3	4.9	4.7	4.7	5.9	3.5
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	4.2	4.9	4.7	4.7	5.9	3.5
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	0.1	0.0	0.0	0.0	0.0
Nuclear	4.7	3.8	4.3	4.3	4.3	4.2
Renewables and biofuels	0.8	1.5	2.5	3.0	2.8	2.6
Wastes, Non-Renewable	0.0	0.0	0.1	0.1	0.1	0.1
Net Imports	**8.7**	**7.2**	**7.2**	**7.0**	**7.3**	**6.9**
Solid fossil fuels	2.3	1.7	0.4	0.6	0.7	0.2
of which hard coal	2.2	1.7	0.4	0.5	0.7	0.3
Oil and petroleum products	4.1	4.2	5.0	4.5	5.2	4.9
of which crude oil and NGL	5.3	5.5	7.1	4.2	7.2	6.3
Natural gas	2.7	2.1	2.5	2.7	2.5	2.2
Renewables and biofuels	0.0	-0.1	-0.1	0.0	-0.1	-0.1
Electricity	-0.4	-0.7	-0.5	-0.8	-1.0	-0.3
Gross inland consumption	**18.6**	**17.9**	**18.7**	**19.3**	**19.6**	**17.2**
Solid fossil fuels	6.4	6.9	5.1	5.3	6.3	3.7
of which hard coal	2.2	1.9	0.4	0.5	0.4	0.3
of which brown coal	4.2	4.9	4.7	4.7	5.8	3.3
Oil and petroleum products	4.2	4.0	4.8	4.6	4.8	4.8
of which crude and NGL	5.4	5.6	6.9	4.3	7.1	6.4
Natural gas	2.9	2.3	2.4	2.8	2.3	2.2
Nuclear	4.7	3.8	4.3	4.3	4.3	4.2
Renewables and biofuels	0.8	1.5	2.5	2.9	2.7	2.5
Electricity	-0.4	-0.7	-0.5	-0.8	-1.0	-0.3
Waste, non-renewable	0.0	0.0	0.1	0.1	0.1	0.1
Available for final consumption	**9.6**	**9.2**	**10.2**	**10.2**	**10.8**	**10.3**
Final non-energy consumption	**1.0**	**0.4**	**0.5**	**0.5**	**0.5**	**0.4**
Final energy consumption	**8.6**	**8.7**	**9.7**	**9.5**	**10.2**	**9.9**
by Fuel/Product						
Solid fossil fuels	0.6	0.4	0.3	0.4	0.3	0.2
Oil and petroleum products	3.0	3.0	3.6	3.7	3.7	3.7
Natural gas	1.4	1.1	1.1	1.3	1.1	1.0
Renewables and biofuels	0.5	1.0	1.4	1.5	1.5	1.3
Solid biofuels and renewable waste	0.5	0.9	1.1	1.1	1.1	0.9
Solar thermal	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid biofuels	0.0	0.0	0.2	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	0.1	0.1	0.1	0.0
Electricity	2.1	2.3	2.6	2.7	2.6	2.6
Heat	0.9	1.0	0.5	0.6	0.6	0.5
by Sector						
Industry	3.6	2.5	2.7	2.8	2.7	2.5
Transport	1.9	2.7	3.4	3.4	3.5	3.5
Residential	2.1	2.2	2.2	2.4	2.1	2.0
Services	0.7	1.0	1.3	1.3	1.3	1.3
Agriculture and Fishing	0.3	0.2	0.2	0.2	0.2	0.2
Others	0.0	0.0	0.0	0.0	0.0	0.0

Methodology and Notes: **see appendices**

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**11.1**	**10.0**	**11.2**	**11.2**	**13.3**	**14.5**
Combustible Fuels	5.7	4.6	4.1	3.9	5.5	5.5
Nuclear	3.5	1.9	2.0	2.0	2.0	2.0
Hydro	1.9	3.0	3.4	3.4	3.3	3.4
Wind	0.0	0.5	0.7	0.7	0.7	0.7
Solar	0.0	0.0	1.0	1.3	1.7	2.9
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]	**40.9**	**46.7**	**44.3**	**47.6**	**50.5**	**50.5**
Solid fossil fuels, peat and products, oil shale	16.9	22.6	17.2	17.1	21.8	21.8
Oil and petroleum products	0.7	0.4	0.4	0.4	0.5	0.5
Natural gas	2.2	2.0	2.2	3.0	2.1	2.1
Nuclear	18.2	15.2	16.6	16.5	16.5	16.5
Renewables and biofuels	2.6	5.8	7.5	10.3	9.6	9.6
Wastes non-RES	0.0	0.0	0.0	0.0	0.0	0.0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			1.2	1.3	1.7	1.4
CHP Electricity Generation [TWh]			3.9	4.2	3.7	3.5
CHP in Total Electricity Generation [%]			8.8	8.8	7.3	8.8
CHP Heat Production [PJ]			39.6	49.8	43.5	36.5
Transport Fuels [ktoe]						
Final consumption petroleum products	2 162	2 658	3 278	3 341	3 397	3 480
of which LPG	245	418	485	451	519	549
of which motor gasoline	697	611	473	501	524	522
of which Gas/Diesel oil	1 219	1 630	2 320	2 389	2 354	2 410
Final consumption biofuels	0	13	179	168	190	177
pure and blended biogasoline	0	0	32	21	21	21
pure and blended biodiesel	0	10	148	147	169	156
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	17.7	17.4	18.0	18.6	18.9	16.6
Final energy consumption 2020-2030 [Mtoe]	8.7	8.8	9.9	10.2	9.9	9.6
Primary Energy Intensity 2020-2030 [toe/M€'15]	644	406	350	345	338	291
Energy Intensity (GAE/GDP2015) [toe/M€'15	680	418	362	358	349	302
Energy per Capita (GIC/pop) [kgoe/capita]	2 275	2 414	2 802	2 952	3 018	2 673
Final Electricity per Capita [KWh/capita]	4 996	6 286	6 644	7 282	7 790	7 832
Import Dependency [%]	**46.6%**	**40.4%**	**38.6%**	**36.3%**	**37.2%**	**39.9%**
of Solid fossil fuels	35.2%	24.5%	7.5%	10.4%	11.6%	5.2%
of Hard Coal	101.0%	86.0%	91.5%	108.2%	196.9%	81.3%
of Oil and petroleum products	97.5%	104.3%	104.2%	99.0%	107.6%	103.2%
of Crude and NGL	98.7%	99.1%	102.6%	98.6%	101.3%	99.8%
of Natural Gas	93.5%	92.6%	100.4%	96.2%	106.1%	99.7%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		13.93%	21.55%	19.44%	19.04%	22.55%
RE-T - Renewable energy in Transport [%]		1.50%	7.89%	7.61%	7.66%	8.09%
RES-E - Renewable Electricity Generation [%]		12.36%	23.51%	21.41%	20.08%	29.43%
RES-H&C - Renewable Heating and Cooling [%]		24.33%	35.42%	30.02%	31.65%	34.88%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	45.6	47.9	42.3	42.4	47.0	34.5
GHG Greenhouse gases (CO_2, N_2O*	57.6	59.4	54.0	54.1	58.5	45.4
Main Emissions Indicators						
GHG total emissions [index 1990=100]	58.1%	60.0%	54.5%	54.6%	59.0%	45.8%
Total GHG per capita [t CO_2 eq./capita]	7.0	8.0	8.1	8.3	9.0	7.0

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.4 Czechia

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**30.8**	**31.9**	**26.6**	**24.4**	**25.3**	**23.2**
Solid fossil fuels	25.0	20.7	13.4	10.5	11.4	9.7
of which hard coal	9.4	7.4	2.2	1.5	1.1	0.8
of which brown coal	15.6	13.3	11.1	9.0	10.3	8.9
Oil and petroleum products	0.4	0.3	0.2	0.1	0.1	0.1
of which crude oil	0.2	0.2	0.1	0.1	0.1	0.1
Natural gas	0.2	0.2	0.2	0.2	0.2	0.1
Nuclear	3.5	7.2	7.5	7.6	7.7	7.6
Renewables and biofuels	1.6	3.3	5.0	5.6	5.6	5.4
Wastes, Non-Renewable	0.1	0.2	0.4	0.4	0.4	0.3
Net Imports	**9.4**	**11.5**	**17.5**	**17.1**	**17.5**	**16.0**
Solid fossil fuels	-4.7	-2.9	1.2	1.8	1.9	1.6
of which hard coal	-3.5	-2.7	1.5	1.9	2.3	1.8
Oil and petroleum products	7.5	9.0	9.6	9.2	9.7	9.6
of which crude oil and NGL	5.6	7.8	7.9	6.9	7.5	7.5
Natural gas	7.5	6.8	7.9	7.2	7.2	5.8
Renewables and biofuels	0.0	-0.1	-0.1	-0.1	-0.1	-0.1
Electricity	-0.9	-1.3	-1.1	-1.0	-1.2	-0.8
Gross inland consumption	**41.3**	**45.5**	**42.9**	**42.7**	**41.8**	**38.4**
Solid fossil fuels	21.6	18.8	14.2	12.9	13.5	10.7
of which hard coal	6.2	5.1	3.5	3.8	3.5	2.6
of which brown coal	15.6	13.5	10.7	9.1	10.0	8.2
Oil and petroleum products	7.9	9.3	9.9	9.5	9.7	9.6
of which crude and NGL	5.8	8.0	8.0	7.2	7.6	7.6
Natural gas	7.5	8.1	7.2	7.8	6.3	5.8
Nuclear	3.5	7.2	7.5	7.6	7.7	7.6
Renewables and biofuels	1.6	3.2	4.9	5.5	5.4	5.2
Electricity	-0.9	-1.3	-1.1	-1.0	-1.2	-0.8
Waste, non-renewable	0.1	0.2	0.4	0.4	0.4	0.3
Available for final consumption	**26.4**	**27.7**	**27.2**	**26.1**	**28.2**	**27.2**
Final non-energy consumption	**2.1**	**2.9**	**3.0**	**2.5**	**2.9**	**2.8**
Final energy consumption	**24.0**	**24.1**	**24.2**	**23.8**	**25.3**	**24.1**
by Fuel/Product						
Solid fossil fuels	4.2	1.9	1.4	1.4	1.4	1.1
Oil and petroleum products	5.2	6.3	6.7	6.8	6.9	7.1
Natural gas	5.9	6.1	5.2	5.5	4.7	4.2
Renewables and biofuels	1.2	2.3	3.2	3.7	3.6	3.4
Solid biofuels and renewable waste	1.1	2.0	2.5	2.9	2.7	2.4
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	0.1	0.2	0.3	0.4	0.3	0.3
Biogases	0.0	0.1	0.1	0.2	0.2	0.2
Waste, non-renewable	0.1	0.2	0.3	0.3	0.3	0.2
Electricity	4.2	4.7	5.0	5.2	5.0	4.8
Heat	2.6	2.4	2.0	2.2	2.0	1.7
by Sector						
Industry	9.2	6.9	6.6	7.0	6.6	6.0
Transport	4.2	5.9	6.8	6.7	6.9	7.0
Residential	6.4	7.4	7.0	7.9	7.2	6.4
Services	3.0	3.2	3.2	3.0	2.9	2.7
Agriculture and Fishing	0.7	0.5	0.6	0.6	0.6	0.6
Others	0.5	0.1	0.0	0.1	0.0	0.0

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**15.3**	**20.1**	**22.0**	**21.0**	**21.1**	**22.1**
Combustible Fuels	11.5	12.0	13.0	11.9	11.8	11.9
Nuclear	1.8	3.9	4.3	4.3	4.3	4.3
Hydro	2.1	2.2	2.3	2.3	2.3	2.3
Wind	0.0	0.2	0.3	0.3	0.3	0.3
Solar	0.0	1.7	2.1	2.2	2.4	3.3
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel [TWh]	**73.5**	**85.9**	**87.0**	**85.0**	**84.9**	**77.0**
Solid fossil fuels, peat and products, oil shale	52.8	46.9	37.3	34.2	36.9	29.9
Oil and petroleum products	0.4	0.2	0.1	0.1	0.1	0.1
Natural gas	3.9	4.2	7.9	7.9	4.9	4.1
Nuclear	13.6	28.0	30.2	30.7	31.0	30.4
Renewables and biofuels	2.3	5.9	10.1	10.6	10.8	11.1
Wastes non-RES	0.0	0.0	0.1	0.1	0.1	0.1
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			8.5	8.0	7.8	8.0
CHP Electricity Generation [TWh]			9.9	10.6	10.1	9.3
CHP in Total Electricity Generation [%]			11.4	12.5	11.9	12.1
CHP Heat Production [PJ]			99.1	99.0	90.2	84.2
Transport Fuels [ktoe]						
Final consumption petroleum products	4646	5924	6625	6619	6759	6978
of which LPG	199	117	177	181	168	228
of which motor gasoline	1922	1868	1602	1515	1583	1680
of which Gas/Diesel oil	2526	3939	4847	4923	5008	5070
Final consumption biofuels	62	231	340	361	342	321
pure and blended biogasoline	0	58	74	55	63	63
pure and blended biodiesel	62	173	267	306	278	259
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	39.1	42.5	39.7	39.5	38.6	35.5
Final energy consumption 2020-2030 [Mtoe]	24.2	24.4	24.4	25.2	24.0	22.6
Primary Energy Intensity 2020-2030 [toe/M€'15]	337	270	203	205	195	179
Energy Intensity (GAE/GDP2015) [toe/M€'15	356	289	219	221	211	194
Energy per Capita (GIC/pop) [kgoe/capita]	4017	4346	4031	4071	3979	3550
Final Electricity per Capita [KWh/capita]	7148	8211	8172	8101	8068	7112
Import Dependency [%]	**22.7%**	**25.4%**	**40.8%**	**40.0%**	**41.8%**	**41.7%**
of Solid fossil fuels	-22.0%	-15.3%	8.6%	13.9%	14.1%	14.9%
of Hard Coal	-56.4%	-53.9%	41.5%	50.5%	65.9%	71.4%
of Oil and petroleum products	95.3%	96.5%	97.5%	96.9%	99.9%	99.4%
of Crude and NGL	95.2%	97.5%	98.6%	96.2%	99.6%	98.9%
of Natural Gas	99.8%	84.8%	109.8%	92.1%	113.4%	100.1%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		10.51%	16.24%	17.61%	18.12%	18.59%
RE-T - Renewable energy in Transport [%]		5.22%	7.84%	6.74%	6.24%	5.65%
RES-E - Renewable Electricity Generation [%]		7.52%	14.05%	14.47%	15.50%	16.45%
RES-H&C - Renewable Heating and Cooling [%]		14.10%	22.63%	24.35%	25.82%	27.77%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	128.3	118.3	101.5	97.2	95.5	83.7
GHG Greenhouse gases (CO_2, N_2O*	149.9	139.8	121.5	117.4	115.0	102.5
Main Emissions Indicators						
GHG total emissions [index 1990=100]	76.4%	71.2%	61.9%	59.8%	58.6%	52.2%
Total GHG per capita [t CO_2 eq./capita]	14.6	13.4	11.4	11.2	10.9	9.5

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.5 Denmark

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	27.8	23.4	12.5	9.5	10.0	9.9
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	18.3	12.5	5.2	3.3	3.3	3.0
of which crude oil	18.3	12.5	5.2	3.3	3.3	3.0
Natural gas	7.4	7.3	2.8	1.3	1.3	1.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	1.8	3.1	4.2	4.6	5.1	5.3
Wastes, Non-Renewable	0.3	0.4	0.4	0.4	0.4	0.4
Net Imports	-7.5	-3.4	7.0	5.6	7.2	6.5
Solid fossil fuels	3.8	2.6	1.4	0.1	1.1	0.8
of which hard coal	3.8	2.6	1.4	0.1	1.1	0.8
Oil and petroleum products	-8.5	-3.8	3.4	2.0	3.7	3.4
of which crude oil and NGL	-10.0	-5.1	2.8	4.4	4.0	4.6
Natural gas	-2.9	-3.0	-0.2	0.5	0.4	0.2
Renewables and biofuels	0.1	0.9	1.8	2.5	1.9	1.8
Electricity	0.1	-0.1	0.5	0.4	0.1	0.3
Gross inland consumption	19.5	20.3	17.4	16.9	16.4	16.1
Solid fossil fuels	4.0	3.8	1.0	1.1	1.1	0.7
of which hard coal	4.0	3.8	1.0	1.1	1.1	0.7
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	8.8	7.8	6.9	6.0	6.4	6.2
of which crude and NGL	8.3	7.4	7.8	7.8	7.4	7.7
Natural gas	4.4	4.4	2.5	1.9	1.5	1.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	1.9	4.0	6.0	7.0	7.0	7.1
Electricity	0.1	-0.1	0.5	0.4	0.1	0.3
Waste, non-renewable	0.3	0.4	0.4	0.4	0.4	0.4
Available for final consumption	14.3	15.0	14.3	13.6	14.0	13.2
Final non-energy consumption	0.3	0.3	0.2	0.2	0.2	0.2
Final energy consumption	14.0	14.8	13.5	13.1	13.8	13.0
by Fuel/Product						
Solid fossil fuels	0.3	0.1	0.1	0.1	0.1	0.1
Oil and petroleum products	6.3	5.9	5.1	4.8	4.9	4.7
Natural gas	1.7	1.7	1.5	1.6	1.3	1.3
Renewables and biofuels	0.7	1.4	1.6	1.7	1.6	1.6
Solid biofuels and renewable waste	0.6	1.2	1.1	1.1	0.9	0.9
Solar thermal	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid biofuels	0.0	0.0	0.2	0.3	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	2.8	2.6	2.8	2.6	2.6
Heat	2.3	2.8	2.5	2.7	2.5	2.6
by Sector						
Industry	2.9	2.4	2.3	2.5	2.4	2.2
Transport	4.0	4.4	4.2	4.0	4.0	4.0
Residential	4.2	5.0	4.4	4.5	4.0	4.2
Services	1.8	2.1	1.9	2.0	1.9	1.9
Agriculture and Fishing	1.0	0.9	0.7	0.7	0.7	0.7
Others	0.0	0.0	0.1	0.1	0.1	0.1

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**12.3**	**13.4**	**15.0**	**16.2**	**17.6**	**18.2**
Combustible Fuels	9.9	9.6	7.8	7.5	7.4	7.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	2.4	3.8	6.1	7.0	7.1	7.3
Solar	0.0	0.0	1.1	1.7	3.1	3.5
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]	**36.1**	**38.9**	**29.5**	**33.1**	**35.1**	**33.7**
Solid fossil fuels, peat and products, oil shale	16.7	17.0	3.3	4.4	4.4	2.5
Oil and petroleum products	4.4	0.8	0.2	0.3	0.3	0.2
Natural gas	8.8	7.9	2.1	1.5	1.0	1.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	5.6	12.4	23.1	26.1	28.5	29.2
Wastes non-RES	0.6	0.7	0.8	0.8	0.8	0.8
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			5.1	4.6	4.5	4.5
CHP Electricity Generation [TWh]			10.6	10.1	9.8	8.9
CHP in Total Electricity Generation [%]			35.9	30.5	27.8	26.3
CHP Heat Production [PJ]			91.9	86.9	88.4	86.8
Transport Fuels [ktoe]						
Final consumption petroleum products	5754	5586	4768	4544	4628	4563
of which LPG	81	59	64	69	86	93
of which motor gasoline	2055	1602	1339	1224	1214	1226
of which Gas/Diesel oil	3619	3925	3365	3251	3328	3245
Final consumption biofuels	0	28	226	257	234	217
pure and blended biogasoline	0	27	44	82	80	84
pure and blended biodiesel	0	1	183	175	154	133
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	19.1	19.9	16.9	16.3	15.7	15.4
Final energy consumption 2020-2030 [Mtoe]	14.7	15.5	14.3	13.8	13.3	13.4
Primary Energy Intensity 2020-2030 [toe/M€'15]	81	78	56	52	49	47
Energy Intensity (GAE/GDP2015) [toe/M€'15	82	79	58	54	51	49
Energy per Capita (GIC/pop) [kgoe/capita]	3658	3673	2991	2901	2789	2707
Final Electricity per Capita [KWh/capita]	6764	7021	5084	5659	5980	5686
Import Dependency [%]	**-38.3%**	**-16.8%**	**40.5%**	**33.1%**	**44.1%**	**40.2%**
of Solid fossil fuels	94.9%	69.4%	145.3%	10.9%	105.5%	108.4%
of Hard Coal	94.8%	69.3%	145.7%	10.3%	105.6%	108.4%
of Oil and petroleum products	-96.5%	-49.0%	49.6%	32.7%	57.8%	54.8%
of Crude and NGL	-120.5%	-68.8%	36.0%	56.7%	53.8%	60.2%
of Natural Gas	-64.8%	-68.3%	-7.2%	27.8%	27.1%	13.4%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		21.89%	37.02%	41.81%	42.38%	44.40%
RE-T - Renewable energy in Transport [%]		1.15%	7.11%	10.51%	10.35%	10.80%
RES-E - Renewable Electricity Generation [%]		32.74%	65.35%	72.92%	77.22%	79.39%
RES-H&C - Renewable Heating and Cooling [%]		30.37%	47.30%	51.29%	52.32%	54.90%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	55.2	49.7	31.2	29.8	28.6	26.1
GHG Greenhouse gases (CO_2, N_2O*	73.1	65.7	46.1	44.4	42.8	39.3
Main Emissions Indicators						
GHG total emissions [index 1990=100]	100.9%	90.6%	63.6%	61.2%	59.0%	54.2%
Total GHG per capita [t CO_2 eq./capita]	13.7	11.9	7.9	7.6	7.3	6.6

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.6 Germany

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**135.2**	**131.7**	**105.3**	**103.6**	**97.2**	**83.2**
Solid fossil fuels	60.6	45.9	28.4	27.5	28.5	21.9
of which hard coal	24.2	9.2	0.0	0.0	0.0	0.0
of which brown coal	36.4	36.7	28.4	27.5	28.5	21.9
Oil and petroleum products	4.4	3.7	3.2	3.0	2.8	2.7
of which crude oil	3.2	2.5	2.0	1.8	1.7	1.6
Natural gas	15.8	11.1	4.4	3.9	3.6	3.2
Nuclear	43.8	36.2	19.3	17.8	8.9	1.9
Renewables and biofuels	9.0	30.9	45.7	47.2	49.2	49.4
Wastes, Non-Renewable	1.7	3.9	4.2	4.3	4.1	4.1
Net Imports	**204.9**	**204.6**	**207.5**	**188.8**	**194.8**	**171.9**
Solid fossil fuels	21.7	31.6	26.7	25.8	28.0	20.8
of which hard coal	17.2	29.1	26.5	25.2	27.5	19.9
Oil and petroleum products	126.1	112.2	108.4	94.8	98.5	90.4
of which crude oil and NGL	101.5	94.0	87.2	82.5	89.5	78.3
Natural gas	56.9	61.6	75.7	70.0	70.7	60.0
Renewables and biofuels	0.0	0.4	-0.4	-0.2	-0.1	-0.2
Electricity	0.3	-1.3	-2.8	-1.6	-2.3	0.8
Gross inland consumption	**342.4**	**338.2**	**308.1**	**296.3**	**282.3**	**255.9**
Solid fossil fuels	84.8	79.1	56.5	53.9	55.7	42.4
of which hard coal	43.8	39.8	27.8	25.8	26.6	19.5
of which brown coal	37.2	36.7	28.5	27.5	28.5	21.9
Oil and petroleum products	131.1	113.2	110.0	97.8	100.1	93.5
of which crude and NGL	108.2	96.6	88.7	85.0	91.3	80.2
Natural gas	71.9	75.9	75.6	77.2	66.8	64.1
Nuclear	43.8	36.2	19.3	17.8	8.9	1.9
Renewables and biofuels	9.0	31.3	45.3	47.0	49.0	49.2
Electricity	0.3	-1.3	-2.8	-1.6	-2.3	0.8
Waste, non-renewable	1.7	3.9	4.2	4.3	4.1	4.1
Available for final consumption	**234.8**	**233.1**	**225.5**	**214.5**	**219.2**	**210.7**
Final non-energy consumption	**25.3**	**22.6**	**21.6**	**21.4**	**23.4**	**19.5**
Final energy consumption	**207.2**	**209.9**	**200.8**	**194.2**	**197.6**	**189.7**
by Fuel/Product						
Solid fossil fuels	5.6	4.4	3.4	3.2	3.6	3.1
Oil and petroleum products	92.3	74.9	72.5	63.0	64.2	61.6
Natural gas	53.0	54.0	52.4	57.1	49.7	46.5
Renewables and biofuels	4.8	16.2	16.6	18.0	18.9	17.5
Solid biofuels and renewable waste	4.4	11.2	10.4	11.3	11.8	10.1
Solar thermal	0.1	0.5	0.7	0.7	0.8	0.8
Geothermal	0.0	0.1	0.1	0.1	0.1	0.1
Liquid biofuels	0.2	3.2	2.8	3.1	3.2	3.2
Biogases	0.1	0.8	1.4	1.3	1.3	1.2
Waste, non-renewable	0.0	1.0	1.3	1.3	1.2	1.2
Electricity	41.6	45.7	42.7	43.0	41.0	39.0
Heat	6.8	11.3	9.6	9.8	8.9	8.5
by Sector						
Industry	51.4	56.7	55.6	56.2	53.0	50.1
Transport	60.0	53.1	56.2	49.9	50.7	49.2
Residential	65.3	63.8	57.7	57.7	57.4	52.9
Services	25.8	34.8	27.5	30.0	24.7	23.8
Agriculture and Fishing	0.3	1.3	3.6	3.7	3.7	3.7
Others	4.3	0.2	0.1	0.1	0.1	0.1

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**118.9**	**162.9**	**231.5**	**242.6**	**244.8**	**261.4**
Combustible Fuels	80.8	85.8	100.5	99.2	100.9	100.4
Nuclear	22.4	20.5	9.5	8.1	4.2	4.2
Hydro	9.5	11.2	10.7	10.8	10.9	11.0
Wind	6.1	27.0	60.7	63.7	66.2	69.5
Solar	0.1	18.0	48.9	60.0	61.2	74.9
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]	**576.5**	**633.1**	**606.9**	**592.8**	**578.9**	**511.9**
Solid fossil fuels, peat and products, oil shale	296.7	262.9	171.5	164.7	179.9	125.0
Oil and petroleum products	4.8	8.7	4.8	4.6	5.2	5.4
Natural gas	60.0	100.9	101.1	107.2	93.2	90.8
Nuclear	169.6	140.6	75.1	69.1	34.7	7.2
Renewables and biofuels	35.5	105.2	240.3	233.6	252.3	270.1
Wastes non-RES	5.8	6.4	6.8	6.6	6.4	6.4
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			54.8	50.2	51.3	52.5
CHP Electricity Generation [TWh]			86.9	90.1	80.3	75.7
CHP in Total Electricity Generation [%]			14.3	15.2	13.8	14.8
CHP Heat Production [PJ]			663.2	670.2	617.4	567.1
Transport Fuels [ktoe]						
Final consumption petroleum products	89321	72135	70460	61369	62515	59784
of which LPG	1909	2075	1729	1538	1670	1362
of which motor gasoline	30479	19204	16989	15409	15879	15780
of which Gas/Diesel oil	56933	50857	51741	44422	44966	42642
Final consumption biofuels	236	3166	2827	3109	3160	3202
pure and blended biogasoline	0	749	725	742	755	794
pure and blended biodiesel	222	2244	2044	2329	2369	2374
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	317.1	315.2	285.2	271.5	261.1	237.2
Final energy consumption 2020-2030 [Mtoe]	213.8	217.4	209.3	202.1	196.9	187.0
Primary Energy Intensity 2020-2030 [toe/M€'15]	122	111	86	82	78	71
Energy Intensity (GAE/GDP2015) [toe/M€'15	132	119	93	90	85	77
Energy per Capita (GIC/pop) [kgoe/capita]	4168	4135	3712	3564	3392	3079
Final Electricity per Capita [KWh/capita]	7017	7740	7311	7129	6955	6158
Import Dependency [%]	**59.8%**	**60.5%**	**67.4%**	**63.7%**	**69.0%**	**67.2%**
of Solid fossil fuels	25.6%	40.0%	47.2%	47.8%	50.4%	49.2%
of Hard Coal	39.2%	73.2%	95.2%	97.6%	103.2%	101.8%
of Oil and petroleum products	96.2%	99.1%	98.5%	96.9%	98.3%	96.7%
of Crude and NGL	93.8%	97.3%	98.3%	97.0%	98.0%	97.6%
of Natural Gas	79.1%	81.2%	100.1%	90.7%	105.9%	93.7%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		11.67%	17.27%	19.30%	20.81%	21.56%
RE-T - Renewable energy in Transport [%]		6.41%	7.63%	8.10%	10.08%	11.86%
RES-E - Renewable Electricity Generation [%]		18.24%	40.60%	43.96%	48.04%	52.31%
RES-H&C - Renewable Heating and Cooling [%]		12.06%	14.50%	15.53%	17.38%	17.10%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	899.0	826.7	708.6	678.0	667.8	593.8
GHG Greenhouse gases (CO_2, N_2O*	1042.3	930.2	798.0	761.4	748.8	672.0
Main Emissions Indicators						
GHG total emissions [index 1990=100]	83.2%	74.3%	63.7%	60.8%	59.8%	53.7%
Total GHG per capita [t CO_2 eq/capita]	12.7	11.4	9.6	9.2	9.0	8.1

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.7 Estonia

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**3.4**	**5.1**	**5.1**	**4.4**	**4.7**	**4.6**
Solid fossil fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	0.0	0.0	0.0	0.0	0.0	0.0
of which crude oil	0.0	0.0	0.0	0.0	0.0	0.0
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.5	1.0	1.9	1.9	1.9	1.9
Wastes, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Net Imports	**1.6**	**0.9**	**0.2**	**0.1**	**0.3**	**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	0.8	0.3	0.1	0.5	0.1
of which crude oil and NGL	0.0	0.0	0.0	0.0	0.0	0.0
Natural gas	0.7	0.6	0.4	0.4	0.3	0.3
Renewables and biofuels	0.0	-0.1	-0.6	-0.7	-0.6	-0.5
Electricity	-0.1	-0.3	0.2	0.2	0.1	0.3
Gross inland consumption	**4.7**	**5.9**	**4.9**	**4.6**	**4.9**	**4.3**
Solid fossil fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which hard coal	0.1	0.0	0.0	0.0	0.0	0.0
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	0.7	0.6	0.1	-0.1	0.2	-0.1
of which crude and NGL	0.0	0.0	0.0	0.0	0.0	0.0
Natural gas	0.7	0.6	0.4	0.4	0.3	0.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.5	0.9	1.2	1.3	1.3	1.4
Electricity	-0.1	-0.3	0.2	0.2	0.1	0.3
Waste, non-renewable	0.0	0.0	0.0	0.0	0.0	0.0
Available for final consumption	**2.5**	**3.1**	**3.0**	**3.0**	**2.9**	**2.9**
Final non-energy consumption	**0.2**	**0.1**	**0.1**	**0.2**	**0.2**	**0.1**
Final energy consumption	**2.4**	**2.9**	**2.8**	**2.7**	**2.8**	**2.7**
by Fuel/Product						
Solid fossil fuels	0.1	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	0.7	0.9	1.0	0.9	0.9	0.9
Natural gas	0.2	0.2	0.2	0.3	0.2	0.2
Renewables and biofuels	0.4	0.6	0.4	0.5	0.5	0.5
Solid biofuels and renewable waste	0.4	0.5	0.4	0.4	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	0.6	0.6	0.7	0.6	0.5
Heat	0.5	0.5	0.5	0.5	0.5	0.5
by Sector						
Industry	0.6	0.6	0.5	0.4	0.4	0.3
Transport	0.6	0.8	0.8	0.8	0.8	0.8
Residential	0.9	1.0	1.0	1.0	1.0	0.9
Services	0.3	0.4	0.5	0.5	0.5	0.4
Agriculture and Fishing	0.1	0.1	0.1	0.1	0.1	0.1
Others	0.0	0.0	0.0	0.0	0.0	0.0

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**2.8**	**2.8**	**2.7**	**2.4**	**2.5**	**2.9**
Combustible Fuels	2.8	2.6	2.3	1.7	1.7	1.7
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	0.1	0.3	0.3	0.3	0.3
Solar	0.0	0.0	0.1	0.4	0.5	0.8
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]	**8.5**	**13.0**	**7.6**	**7.2**	**8.9**	**5.7**
Solid fossil fuels, peat and products, oil shale	7.7	11.2	4.3	3.4	5.1	2.0
Oil and petroleum products	0.1	0.0	0.0	0.0	0.0	0.0
Natural gas	0.8	0.7	1.1	0.8	0.9	0.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.0	1.0	2.1	2.9	2.9	2.8
Wastes non-RES	0.0	0.0	0.1	0.1	0.1	0.1
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0.2	0.5	0.5	0.4
CHP Electricity Generation [TWh]			1.0	1.5	1.4	1.0
CHP in Total Electricity Generation [%]			13.6	21.0	15.6	17.5
CHP Heat Production [PJ]			3.6	16.5	15.8	12.2
Transport Fuels [ktoe]						
Final consumption petroleum products	655	883	956	871	926	921
of which LPG	8	11	30	21	24	30
of which motor gasoline	296	289	276	201	212	211
of which Gas/Diesel oil	351	583	650	650	690	680
Final consumption biofuels	0	8	27	46	28	22
pure and blended biogasoline	0	4	7	4	2	2
pure and blended biodiesel	0	3	20	41	26	20
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	4.6	5.8	4.8	4.5	4.7	4.1
Final energy consumption 2020-2030 [Mtoe]	2.4	2.9	2.9	2.8	2.8	2.6
Primary Energy Intensity 2020-2030 [toe/M€'15]	362	332	195	174	184	165
Energy Intensity (GAE/GDP2015) [toe/M€'15	374	337	200	180	189	171
Energy per Capita (GIC/pop) [kgoe/capita]	3360	4443	3711	3464	3644	3115
Final Electricity per Capita [KWh/capita]	6075	9723	5748	5417	6710	4206
Import Dependency [%]	**34.7%**	**15.2%**	**4.9%**	**1.5%**	**6.6%**	**3.7%**
of Solid fossil fuels	125.2%	132.6%	107.2%	95.2%	95.8%	268.4%
of Hard Coal	116.1%	118.3%	96.7%	151.4%	112.0%	94.1%
of Oil and petroleum products	117.3%	130.2%	547.2%	-114.4%	265.0%	-144.4%
of Crude and NGL	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
of Natural Gas	100.0%	100.0%	105.4%	106.1%	118.8%	106.2%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		24.57%	31.73%	37.34%	38.54%	40.95%
RE-T - Renewable energy in Transport [%]		0.43%	6.24%	11.19%	8.53%	9.06%
RES-E - Renewable Electricity Generation [%]		10.29%	22.00%	29.20%	29.11%	31.85%
RES-H&C - Renewable Heating and Cooling [%]		43.16%	52.19%	61.35%	65.44%	66.67%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	15.5	19.0	12.3	10.4	12.0	8.7
GHG Greenhouse gases (CO_2, N_2O*	17.4	21.1	14.5	12.6	14.1	10.9
Main Emissions Indicators						
GHG total emissions [index 1990=100]	43.3%	52.4%	36.0%	31.2%	35.1%	27.0%
Total GHG per capita [t CO_2 eq./capita]	12.4	15.8	11.0	9.4	10.6	8.0

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.8 Ireland

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**2.2**	**1.8**	**4.2**	**3.0**	**3.1**	**3.0**
Solid fossil fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
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	0.2	2.1	1.3	1.2	0.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.2	0.6	1.5	1.5	1.7	1.8
Wastes, Non-Renewable	0.0	0.0	0.1	0.1	0.1	0.2
Net Imports	**12.4**	**13.3**	**10.4**	**11.1**	**11.7**	**11.3**
Solid fossil fuels	1.7	1.0	0.3	1.0	0.9	0.4
of which hard coal	1.7	0.9	0.3	1.0	0.9	0.4
Oil and petroleum products	8.2	7.7	7.5	6.8	7.3	7.2
of which crude oil and NGL	3.0	3.0	2.6	3.0	3.1	2.8
Natural gas	2.5	4.5	2.4	3.1	3.3	3.2
Renewables and biofuels	0.0	0.1	0.2	0.1	0.2	0.2
Electricity	0.0	0.0	0.1	0.1	0.0	0.3
Gross inland consumption	**14.4**	**15.1**	**15.0**	**14.3**	**14.7**	**14.4**
Solid fossil fuels	1.8	1.2	0.4	0.9	0.7	0.4
of which hard coal	1.8	1.2	0.4	0.9	0.7	0.4
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	8.2	7.8	7.4	6.7	7.1	7.1
of which crude and NGL	3.4	3.0	2.6	3.1	3.1	2.8
Natural gas	3.4	4.7	4.6	4.4	4.5	4.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.2	0.7	1.7	1.6	1.8	2.0
Electricity	0.0	0.0	0.1	0.1	0.0	0.3
Waste, non-renewable	0.0	0.0	0.1	0.1	0.1	0.2
Available for final consumption	**10.4**	**11.3**	**11.6**	**11.1**	**11.4**	**11.2**
Final non-energy consumption	**0.7**	**0.3**	**0.2**	**0.2**	**0.4**	**0.2**
Final energy consumption	**10.2**	**11.2**	**11.3**	**10.8**	**11.0**	**11.0**
by Fuel/Product						
Solid fossil fuels	0.4	0.4	0.2	0.2	0.2	0.1
Oil and petroleum products	6.5	6.5	5.9	5.6	5.6	5.6
Natural gas	1.2	1.6	2.0	1.9	1.8	1.7
Renewables and biofuels	0.1	0.3	0.5	0.5	0.6	0.6
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	0.1	0.2	0.2	0.2	0.3
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, non-renewable	0.0	0.0	0.1	0.1	0.1	0.1
Electricity	1.7	2.2	2.4	2.6	2.6	2.7
Heat	0.0	0.0	0.0	0.0	0.0	0.0
by Sector						
Industry	2.5	1.9	2.2	2.2	2.1	2.1
Transport	3.5	3.9	4.1	3.7	4.0	4.1
Residential	2.7	3.6	3.0	3.1	2.7	2.5
Services	1.2	1.4	1.8	1.8	1.9	1.9
Agriculture and Fishing	0.4	0.3	0.3	0.3	0.3	0.3
Others	0.0	0.0	0.0	0.0	0.0	0.0

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**4.7**	**8.1**	**11.1**	**11.4**	**11.7**	**12.5**
Combustible Fuels	4.1	6.5	6.4	6.1	6.0	5.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.5	0.2	0.5	0.5	0.5	0.5
Wind	0.1	1.4	4.1	4.3	4.5	4.7
Solar	0.0	0.0	0.0	0.1	0.2	0.8
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]	**24.0**	**28.4**	**31.1**	**32.0**	**34.0**	**31.9**
Solid fossil fuels, peat and products, oil shale	8.6	5.7	2.4	3.0	2.6	1.4
Oil and petroleum products	4.6	0.6	0.3	1.5	1.1	0.2
Natural gas	9.3	18.1	15.9	15.2	16.5	15.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	1.2	3.8	12.0	11.8	13.3	14.3
Wastes non-RES	0.0	0.0	0.3	0.3	0.3	0.3
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0.3	0.3	0.3	0.3
CHP Electricity Generation [TWh]			2.1	2.0	2.1	1.9
CHP in Total Electricity Generation [%]			6.7	6.4	6.1	6.0
CHP Heat Production [PJ]			11.2	10.9	11.3	10.2
Transport Fuels [ktoe]						
Final consumption petroleum products	4839	4894	4826	4415	4672	4665
of which LPG	153	149	180	178	183	208
of which motor gasoline	1590	1527	781	613	698	743
of which Gas/Diesel oil	3096	3218	3865	3624	3791	3714
Final consumption biofuels	0	93	189	180	226	302
pure and blended biogasoline	0	30	26	20	23	33
pure and blended biodiesel	0	62	162	158	201	269
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	4.6	5.8	4.8	4.5	4.7	4.1
Final energy consumption 2020-2030 [Mtoe]	2.4	2.9	2.9	2.8	2.8	2.6
Primary Energy Intensity 2020-2030 [toe/M€'15]	31	30	14	10	10	9
Energy Intensity (GAE/GDP2015) [toe/M€'15	98	78	44	33	32	33
Energy per Capita (GIC/pop) [kgoe/capita]	3804	3312	3033	2817	2843	2729
Final Electricity per Capita [KWh/capita]	6349	6243	6300	6321	6605	6043
Import Dependency [%]	**86.3%**	**88.3%**	**69.3%**	**78.0%**	**79.9%**	**78.6%**
of Solid fossil fuels	93.3%	77.7%	67.9%	106.4%	126.8%	86.4%
of Hard Coal	93.1%	77.5%	67.0%	106.4%	127.3%	86.6%
of Oil and petroleum products	100.6%	99.2%	100.9%	100.9%	102.3%	101.4%
of Crude and NGL	89.8%	101.6%	100.9%	98.1%	102.5%	97.3%
of Natural Gas	72.1%	95.3%	53.0%	71.3%	73.9%	77.5%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		5.76%	11.98%	13.00%	13.07%	15.25%
RE-T - Renewable energy in Transport [%]		2.49%	8.92%	4.65%	5.82%	7.58%
RES-E - Renewable Electricity Generation [%]		15.64%	36.46%	37.66%	37.39%	40.43%
RES-H&C - Renewable Heating and Cooling [%]		4.28%	6.34%	5.56%	5.52%	7.86%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	45.2	41.8	37.2	37.5	36.7	33.6
GHG Greenhouse gases (CO_2, N_2O*	68.9	61.8	59.8	60.2	59.0	54.9
Main Emissions Indicators						
GHG total emissions [index 1990=100]	123.5%	110.9%	107.2%	108.1%	105.8%	98.6%
Total GHG per capita [t CO_2 eq./capita]	18.2	13.6	12.1	11.9	11.4	10.4

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.9 Greece

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**10.0**	**9.5**	**6.4**	**5.2**	**5.3**	**5.3**
Solid fossil fuels	8.2	7.3	3.1	1.4	1.7	1.3
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	8.2	7.3	3.1	1.4	1.7	1.3
Oil and petroleum products	0.3	0.1	0.2	0.1	0.0	0.1
of which crude oil	0.3	0.1	0.2	0.1	0.0	0.1
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	1.5	2.0	3.1	3.7	3.6	3.9
Wastes, Non-Renewable	0.1	0.0	0.0	0.0	0.0	0.0
Net Imports	**21.8**	**21.3**	**19.3**	**17.2**	**18.9**	**17.4**
Solid fossil fuels	0.8	0.4	0.2	0.2	0.0	-0.1
of which hard coal	0.8	0.4	0.2	0.2	0.1	0.0
Oil and petroleum products	19.3	17.0	13.7	11.2	14.1	13.1
of which crude oil and NGL	19.2	19.1	22.4	23.2	21.8	23.0
Natural gas	1.7	3.2	4.4	5.4	4.5	3.9
Renewables and biofuels	0.0	0.2	0.1	0.1	0.1	0.1
Electricity	0.0	0.5	0.9	0.3	0.3	0.4
Gross inland consumption	**27.9**	**28.3**	**23.6**	**21.5**	**21.8**	**20.9**
Solid fossil fuels	9.0	7.9	3.2	1.7	1.6	1.2
of which hard coal	0.7	0.4	0.2	0.2	0.1	0.1
of which brown coal	8.3	7.5	3.0	1.5	1.5	1.1
Oil and petroleum products	15.6	14.5	11.8	10.2	11.9	11.4
of which crude and NGL	19.3	19.2	22.8	23.5	21.8	23.2
Natural gas	1.7	3.2	4.5	5.4	4.4	4.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	1.5	2.2	3.2	3.8	3.7	3.9
Electricity	0.0	0.5	0.9	0.3	0.3	0.4
Waste, non-renewable	0.1	0.0	0.0	0.0	0.0	0.0
Available for final consumption	**18.5**	**19.2**	**16.4**	**14.5**	**15.0**	**15.6**
Final non-energy consumption	**0.7**	**1.1**	**0.9**	**0.8**	**0.7**	**0.4**
Final energy consumption	**17.9**	**18.4**	**15.4**	**14.5**	**14.9**	**15.4**
by Fuel/Product						
Solid fossil fuels	0.9	0.3	0.2	0.2	0.1	0.1
Oil and petroleum products	11.9	11.4	8.2	7.4	8.3	8.1
Natural gas	0.3	0.8	0.9	1.2	1.2	1.1
Renewables and biofuels	1.1	1.2	1.7	1.8	1.7	1.8
Solid biofuels and renewable waste	0.9	0.9	0.8	0.8	0.8	0.9
Solar thermal	0.2	0.2	0.3	0.3	0.3	0.3
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid biofuels	0.0	0.1	0.2	0.2	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	3.7	4.6	4.3	4.2	4.1	3.9
Heat	0.0	0.0	0.0	0.0	0.0	0.0
by Sector						
Industry	4.5	3.5	2.6	2.6	2.6	2.5
Transport	6.5	7.5	6.0	5.5	5.9	6.1
Residential	4.6	4.7	4.1	4.3	4.3	3.8
Services	1.3	2.0	2.1	2.0	2.1	2.1
Agriculture and Fishing	1.1	0.8	0.3	0.3	0.3	0.3
Others	0.0	0.0	0.2	0.2	0.3	0.2

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**10.9**	**15.3**	**20.5**	**22.0**	**24.0**	**25.8**
Combustible Fuels	7.6	10.6	10.7	9.6	10.4	10.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	3.1	3.2	3.4	3.4	3.4	3.5
Wind	0.2	1.3	3.6	4.6	4.7	5.2
Solar	0.0	0.2	2.8	4.3	5.4	6.7
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]	**53.8**	**57.4**	**48.6**	**54.7**	**52.7**	**49.9**
Solid fossil fuels, peat and products, oil shale	34.3	30.8	12.1	5.3	5.8	4.6
Oil and petroleum products	8.9	6.1	5.6	4.7	5.1	4.7
Natural gas	5.9	9.8	14.5	22.5	19.1	16.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	4.1	10.5	16.1	22.1	22.4	24.4
Wastes non-RES	0.2	0.1	0.3	0.0	0.1	0.0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0.4	0.4	0.4	0.4
CHP Electricity Generation [TWh]			2.2	2.3	2.4	2.5
CHP in Total Electricity Generation [%]			4.5	4.2	4.6	4.9
CHP Heat Production [PJ]			15.3	17.0	15.6	17.7
Transport Fuels [ktoe]						
Final consumption petroleum products	10038	9882	6929	6429	7121	6922
of which LPG	456	320	596	548	601	615
of which motor gasoline	3471	3894	2357	2027	2171	2259
of which Gas/Diesel oil	6111	5668	3976	3855	4349	4048
Final consumption biofuels	0	125	193	222	0	0
pure and blended biogasoline	0	0	25	68	0	0
pure and blended biodiesel	0	125	168	154	0	0
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	27.2	27.2	22.3	20.3	20.9	19.9
Final energy consumption 2020-2030 [Mtoe]	18.7	19.1	16.2	15.2	16.1	15.7
Primary Energy Intensity 2020-2030 [toe/M€'15]	155	126	120	111	108	100
Energy Intensity (GAE/GDP2015) [toe/M€'15	159	131	127	117	113	106
Energy per Capita (GIC/pop) [kgoe/capita]	2589	2549	2196	2014	2087	2010
Final Electricity per Capita [KWh/capita]	4997	5163	4534	5124	5035	4793
Import Dependency [%]	**78.0%**	**75.1%**	**82.0%**	**80.0%**	**86.7%**	**82.9%**
of Solid fossil fuels	8.5%	5.1%	6.4%	9.6%	-0.7%	-9.5%
of Hard Coal	105.8%	100.5%	105.0%	92.7%	82.0%	60.5%
of Oil and petroleum products	123.4%	117.1%	116.1%	109.6%	118.5%	114.9%
of Crude and NGL	99.6%	99.6%	98.1%	98.4%	99.8%	99.3%
of Natural Gas	99.1%	99.9%	99.0%	99.4%	101.6%	97.6%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		10.08%	19.63%	22.00%	22.67%	25.27%
RE-T - Renewable energy in Transport [%]		1.92%	4.05%	4.41%	4.08%	3.94%
RES-E - Renewable Electricity Generation [%]		12.31%	31.30%	35.88%	42.36%	48.23%
RES-H&C - Renewable Heating and Cooling [%]		18.66%	30.05%	31.08%	30.62%	35.55%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	103.0	97.4	65.7	57.5	57.6	52.0
GHG Greenhouse gases (CO_2, N_2O*	126.7	119.2	86.3	78.0	77.8	71.9
Main Emissions Indicators						
GHG total emissions [index 1990=100]	121.8%	114.7%	83.0%	75.0%	74.8%	69.2%
Total GHG per capita [t CO_2 eq./capita]	11.8	10.7	8.0	7.3	7.4	6.9

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.10 Spain

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	31.3	34.5	34.7	35.6	36.0	37.4
Solid fossil fuels	8.0	3.3	0.0	0.0	0.0	0.0
of which hard coal	5.4	2.5	0.0	0.0	0.0	0.0
of which brown coal	2.6	0.8	0.0	0.0	0.0	0.0
Oil and petroleum products	0.2	0.1	0.0	0.0	0.0	0.0
of which crude oil	0.2	0.1	0.0	0.0	0.0	0.0
Natural gas	0.1	0.0	0.1	0.0	0.0	0.0
Nuclear	16.0	16.1	15.2	14.7	15.3	14.8
Renewables and biofuels	6.7	14.6	18.8	20.3	20.1	22.1
Wastes, Non-Renewable	0.2	0.3	0.5	0.5	0.5	0.5
Net Imports	99.9	106.7	100.6	87.0	95.4	85.3
Solid fossil fuels	12.8	6.8	4.5	3.3	5.2	2.0
of which hard coal	13.3	6.9	4.1	2.8	5.0	1.9
Oil and petroleum products	71.2	69.3	64.5	55.0	63.2	59.5
of which crude oil and NGL	58.1	53.0	67.0	56.8	64.3	62.2
Natural gas	15.5	31.0	31.4	29.5	29.3	25.0
Renewables and biofuels	0.0	0.4	-0.4	-0.8	-0.6	0.1
Electricity	0.4	-0.7	0.6	0.1	-1.7	-1.2
Gross inland consumption	124.0	130.1	126.8	118.0	119.6	116.4
Solid fossil fuels	20.9	7.3	5.1	3.2	3.6	2.8
of which hard coal	18.5	7.2	4.5	2.8	3.4	2.7
of which brown coal	2.8	0.2	0.2	0.0	0.0	0.0
Oil and petroleum products	64.4	60.9	56.2	50.3	53.9	51.9
of which crude and NGL	57.7	53.4	66.3	57.5	64.1	62.5
Natural gas	15.2	31.1	30.9	29.4	28.3	25.2
Nuclear	16.0	16.1	15.2	14.7	15.3	14.8
Renewables and biofuels	6.8	15.0	18.4	19.8	19.6	22.4
Electricity	0.4	-0.7	0.6	0.1	-1.7	-1.2
Waste, non-renewable	0.2	0.3	0.5	0.5	0.5	0.5
Available for final consumption	85.4	91.4	87.0	78.5	84.6	82.9
Final non-energy consumption	9.5	7.1	5.4	5.8	5.6	4.8
Final energy consumption	76.3	85.5	82.2	73.1	79.2	78.6
by Fuel/Product						
Solid fossil fuels	0.8	0.5	0.4	0.4	0.4	0.4
Oil and petroleum products	43.7	43.9	39.5	36.8	38.5	37.1
Natural gas	11.8	14.4	15.1	15.5	13.2	12.8
Renewables and biofuels	3.5	5.4	6.7	6.6	6.9	7.9
Solid biofuels and renewable waste	3.3	3.7	3.8	3.7	3.8	4.1
Solar thermal	0.0	0.2	0.3	0.3	0.3	0.3
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid biofuels	0.1	1.5	1.7	1.4	1.4	1.9
Biogases	0.0	0.1	0.1	0.1	0.1	0.1
Waste, non-renewable	0.0	0.1	0.2	0.2	0.2	0.2
Electricity	16.2	21.0	20.2	19.6	19.3	19.1
Heat	0.0	0.0	0.0	0.0	0.0	0.0
by Sector						
Industry	24.5	20.8	21.3	20.8	18.8	18.5
Transport	30.5	34.3	32.9	30.4	32.5	32.2
Residential	12.1	17.0	14.4	14.7	14.2	13.9
Services	6.7	9.8	10.3	10.1	10.1	10.2
Agriculture and Fishing	2.6	2.2	2.9	3.1	2.9	2.6
Others	0.0	1.5	0.2	0.2	0.2	0.2

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**53.9**	**101.7**	**109.7**	**111.0**	**123.1**	**129.5**
Combustible Fuels	26.2	50.4	45.7	39.8	39.5	39.4
Nuclear	7.5	7.5	7.1	7.1	7.1	7.1
Hydro	18.0	18.5	20.1	20.1	20.1	20.1
Wind	2.2	20.7	25.6	27.9	30.1	30.9
Solar	0.0	4.6	11.1	16.0	26.2	31.9
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]	**224.5**	**301.5**	**273.3**	**274.3**	**292.5**	**285.9**
Solid fossil fuels, peat and products, oil shale	79.1	25.3	12.9	4.9	7.9	3.6
Oil and petroleum products	22.6	16.6	12.9	10.0	10.6	9.3
Natural gas	21.9	95.8	84.8	72.7	86.8	65.1
Nuclear	62.2	62.0	58.3	56.6	58.6	56.9
Renewables and biofuels	34.5	97.8	101.0	125.7	122.9	143.8
Wastes non-RES	0.6	0.7	1.0	0.9	0.9	0.8
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			5.0	4.8	4.8	4.6
CHP Electricity Generation [TWh]			29.7	27.5	19.3	18.6
CHP in Total Electricity Generation [%]			10.9	10.0	6.6	6.5
CHP Heat Production [PJ]			143.2	138.9	101.4	98.5
Transport Fuels [ktoe]						
Final consumption petroleum products	37047	37676	34941	33576	34542	32980
of which LPG	2775	2063	1386	1266	1492	1415
of which motor gasoline	9019	5620	5473	5361	5916	6161
of which Gas/Diesel oil	25253	29994	28081	26949	27134	25404
Final consumption biofuels	71	1453	1672	1403	1375	1907
pure and blended biogasoline	0	232	131	114	103	155
pure and blended biodiesel	71	1221	1541	1289	1272	1750
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	114.5	123.0	120.6	111.4	113.5	110.1
Final energy consumption 2020-2030 [Mtoe]	79.1	88.6	86.2	80.0	81.1	80.6
Primary Energy Intensity 2020-2030 [toe/M€'15]	130	114	100	98	94	88
Energy Intensity (GAE/GDP2015) [toe/M€'15	141	120	106	103	99	93
Energy per Capita (GIC/pop) [kgoe/capita]	3065	2799	2703	2490	2518	2420
Final Electricity per Capita [KWh/capita]	5547	6486	5824	5787	6159	5945
Import Dependency [%]	**80.5%**	**82.0%**	**79.3%**	**73.7%**	**79.7%**	**73.3%**
of Solid fossil fuels	61.3%	92.8%	89.5%	102.0%	144.3%	71.8%
of Hard Coal	71.5%	95.7%	91.6%	101.8%	146.2%	70.5%
of Oil and petroleum products	110.5%	113.7%	114.8%	109.4%	117.1%	114.8%
of Crude and NGL	100.6%	99.3%	101.0%	98.7%	100.3%	99.5%
of Natural Gas	101.6%	99.4%	101.6%	100.4%	103.3%	99.0%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		13.78%	17.85%	20.55%	21.90%	24.85%
RE-T - Renewable energy in Transport [%]		5.02%	7.61%	9.21%	9.68%	11.96%
RES-E - Renewable Electricity Generation [%]		29.75%	37.13%	46.00%	50.90%	56.93%
RES-H&C - Renewable Heating and Cooling [%]		12.50%	17.20%	16.96%	19.47%	21.45%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	309.3	282.6	250.7	228.8	234.2	215.5
GHG Greenhouse gases (CO_2, N_2O*	381.9	353.6	308.9	287.6	292.3	270.0
Main Emissions Indicators						
GHG total emissions [index 1990=100]	133.2%	123.4%	107.8%	100.3%	102.0%	94.2%
Total GHG per capita [t CO_2 eq./capita]	9.4	7.6	6.6	6.1	6.2	5.6

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.11 France

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	129.1	136.7	134.5	131.0	108.1	122.1
Solid fossil fuels	2.1	0.0	0.0	0.0	0.0	0.0
of which hard coal	2.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	0.1	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	1.9	1.2	0.9	0.8	0.8	0.8
of which crude oil	1.7	0.9	0.7	0.7	0.6	0.6
Natural gas	1.5	0.6	0.0	0.0	0.0	0.0
Nuclear	107.1	111.6	104.0	98.9	76.8	88.1
Renewables and biofuels	15.6	22.0	27.8	29.6	28.7	31.5
Wastes, Non-Renewable	0.9	1.3	1.7	1.7	1.8	1.7
Net Imports	132.7	132.4	120.4	107.2	114.8	101.1
Solid fossil fuels	12.8	12.1	7.3	6.2	6.1	4.5
of which hard coal	12.3	11.2	6.8	5.2	5.2	4.0
Oil and petroleum products	90.0	83.2	77.8	67.8	69.5	69.8
of which crude oil and NGL	85.4	65.5	49.5	34.5	41.9	46.5
Natural gas	35.8	39.6	39.2	35.6	36.2	29.1
Renewables and biofuels	0.0	0.2	1.1	1.4	1.7	2.0
Electricity	-6.0	-2.6	-5.0	-3.9	1.3	-4.3
Gross inland consumption	255.9	269.7	251.8	241.9	220.2	224.1
Solid fossil fuels	14.9	12.0	7.3	8.5	7.5	6.0
of which hard coal	14.1	11.1	6.9	5.8	5.1	4.1
of which brown coal	0.1	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	87.6	82.7	77.3	68.7	69.2	69.8
of which crude and NGL	86.8	66.7	50.3	35.5	42.4	46.9
Natural gas	35.8	42.6	37.5	37.0	33.2	29.3
Nuclear	107.1	111.6	104.0	98.9	76.8	88.1
Renewables and biofuels	15.6	22.2	28.9	31.0	30.5	33.5
Electricity	-6.0	-2.6	-5.0	-3.9	1.3	-4.3
Waste, non-renewable	0.9	1.3	1.7	1.7	1.8	1.7
Available for final consumption	156.6	161.5	155.5	141.1	152.0	143.1
Final non-energy consumption	17.0	13.9	13.4	12.6	13.3	10.5
Final energy consumption	145.1	146.3	140.1	128.3	140.2	134.1
by Fuel/Product						
Solid fossil fuels	2.3	1.8	1.0	1.0	0.7	0.6
Oil and petroleum products	67.5	58.4	54.4	52.5	52.6	50.5
Natural gas	29.8	32.0	28.2	28.8	24.6	22.5
Renewables and biofuels	9.0	12.9	15.2	16.1	15.9	16.7
Solid biofuels and renewable waste	8.4	9.1	8.4	8.6	8.2	8.3
Solar thermal	0.0	0.1	0.2	0.2	0.2	0.2
Geothermal	0.1	0.0	0.0	0.0	0.0	0.0
Liquid biofuels	0.3	2.4	3.5	3.1	3.3	3.5
Biogases	0.1	0.1	0.2	0.3	0.3	0.3
Waste, non-renewable	0.2	0.1	0.5	0.5	0.5	0.5
Electricity	33.1	38.2	37.1	37.2	35.7	34.2
Heat	3.2	2.8	3.7	4.1	4.0	3.6
by Sector						
Industry	32.2	27.7	27.2	27.0	25.6	24.0
Transport	45.2	43.6	45.6	43.6	45.1	44.1
Residential	40.6	45.4	40.2	42.6	37.3	36.3
Services	18.7	24.1	21.9	21.6	20.7	18.9
Agriculture and Fishing	4.3	4.4	4.4	4.7	4.5	4.5
Others	4.1	1.0	0.7	0.8	0.8	0.8

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**114.5**	**124.1**	**137.2**	**142.1**	**148.8**	**149.9**
Combustible Fuels	25.9	28.4	20.8	21.0	21.0	21.0
Nuclear	63.2	63.1	63.1	61.4	61.4	61.4
Hydro	25.2	25.4	25.9	26.0	26.0	26.3
Wind	0.0	5.9	16.4	18.4	20.8	23.1
Solar	0.0	1.0	10.7	14.6	17.3	17.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.2	0.2	0.2	0.2	0.2	0.2
Gross Electricity Generation, by Fuel [TWh]	**540.0**	**569.3**	**570.7**	**555.1**	**474.6**	**524.7**
Solid fossil fuels, peat and products, oil shale	27.0	23.4	3.6	5.4	4.2	2.0
Oil and petroleum products	7.2	5.5	5.9	5.7	6.4	6.2
Natural gas	15.4	26.7	41.5	35.2	47.4	30.9
Nuclear	415.2	428.5	399.0	379.4	294.7	338.2
Renewables and biofuels	67.8	76.7	113.1	122.3	113.6	139.4
Wastes non-RES	1.1	2.0	2.4	2.2	2.2	2.2
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			6.6	7.0	5.7	8.7
CHP Electricity Generation [TWh]			18.1	18.5	19.3	17.6
CHP in Total Electricity Generation [%]			3.2	3.3	4.1	3.4
CHP Heat Production [PJ]			159.9	174.4	178.0	172.6
Transport Fuels [ktoe]						
Final consumption petroleum products	61952	55093	51495	50031	49769	47884
of which LPG	3815	2645	1905	1942	1750	1698
of which motor gasoline	14494	7744	8319	8613	9434	10023
of which Gas/Diesel oil	43643	44705	41270	39477	38585	36163
Final consumption biofuels	326	2420	3480	3142	3325	3465
pure and blended biogasoline	59	399	653	716	850	845
pure and blended biodiesel	268	2021	2804	2424	2472	2617
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	239.0	254.5	235.5	224.8	205.9	209.6
Final energy consumption 2020-2030 [Mtoe]	150.3	150.4	143.4	139.2	135.2	129.7
Primary Energy Intensity 2020-2030 [toe/M€'15]	131	122	100	97	86	87
Energy Intensity (GAE/GDP2015) [toe/M€'15	140	129	107	104	92	93
Energy per Capita (GIC/pop) [kgoe/capita]	4227	4171	3743	3572	3234	3283
Final Electricity per Capita [KWh/capita]	8918	8804	8481	8196	6971	7684
Import Dependency [%]	**51.8%**	**49.1%**	**47.8%**	**44.3%**	**52.1%**	**45.1%**
of Solid fossil fuels	86.3%	101.0%	99.6%	73.5%	81.6%	74.8%
of Hard Coal	87.2%	100.6%	99.2%	88.7%	103.4%	98.7%
of Oil and petroleum products	102.7%	100.6%	100.6%	98.7%	100.5%	99.9%
of Crude and NGL	98.5%	98.2%	98.4%	97.2%	98.9%	99.1%
of Natural Gas	100.0%	92.8%	104.5%	96.1%	109.0%	99.5%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		12.67%	17.17%	19.32%	20.45%	22.28%
RE-T - Renewable energy in Transport [%]		6.58%	9.25%	8.12%	8.87%	10.03%
RES-E - Renewable Electricity Generation [%]		14.81%	22.39%	24.73%	27.29%	29.98%
RES-H&C - Renewable Heating and Cooling [%]		16.16%	22.36%	24.64%	27.27%	29.93%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	415.3	387.3	326.7	316.8	304.9	279.7
GHG Greenhouse gases (CO_2, N_2O*	551.1	512.7	436.1	419.8	403.4	376.4
Main Emissions Indicators						
GHG total emissions [index 1990=100]	100.8%	93.8%	79.8%	76.8%	73.8%	68.9%
Total GHG per capita [t CO_2 eq./capita]	9.1	7.9	6.5	6.2	5.9	5.5

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.12 Croatia

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**4.3**	**5.2**	**3.9**	**4.0**	**3.7**	**3.8**
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	1.3	0.8	0.7	0.6	0.6	0.6
of which crude oil	1.3	0.8	0.7	0.6	0.6	0.6
Natural gas	1.4	2.2	0.9	0.6	0.6	0.6
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	1.6	2.2	2.3	2.7	2.4	2.6
Wastes, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Net Imports	**4.1**	**4.4**	**5.0**	**4.8**	**5.1**	**4.9**
Solid fossil fuels	0.5	0.7	0.4	0.4	0.4	0.4
of which hard coal	0.4	0.6	0.4	0.4	0.4	0.4
Oil and petroleum products	2.4	3.0	2.5	2.3	2.9	3.0
of which crude oil and NGL	3.9	3.6	1.9	1.3	1.3	1.1
Natural gas	0.9	0.5	1.6	1.8	1.7	1.6
Renewables and biofuels	0.0	-0.1	-0.1	-0.1	-0.2	-0.1
Electricity	0.3	0.3	0.5	0.3	0.4	0.1
Gross inland consumption	**8.5**	**9.5**	**8.8**	**8.7**	**8.5**	**8.8**
Solid fossil fuels	0.4	0.7	0.4	0.4	0.4	0.3
of which hard coal	0.4	0.6	0.4	0.4	0.4	0.3
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	4.0	3.7	3.3	3.0	3.3	3.6
of which crude and NGL	5.5	4.4	2.7	2.0	1.8	1.7
Natural gas	2.2	2.6	2.4	2.4	2.1	2.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	1.6	2.1	2.1	2.5	2.2	2.4
Electricity	0.3	0.3	0.5	0.3	0.4	0.1
Waste, non-renewable	0.0	0.0	0.0	0.0	0.0	0.0
Available for final consumption	**6.6**	**7.7**	**7.3**	**7.0**	**7.3**	**6.9**
Final non-energy consumption	**0.7**	**0.6**	**0.6**	**0.5**	**0.4**	**0.2**
Final energy consumption	**5.9**	**7.1**	**6.7**	**6.4**	**6.9**	**6.7**
by Fuel/Product						
Solid fossil fuels	0.1	0.2	0.1	0.1	0.1	0.1
Oil and petroleum products	2.6	2.8	2.7	2.6	2.8	3.1
Natural gas	1.0	1.3	1.1	1.2	1.0	1.0
Renewables and biofuels	1.0	1.3	1.2	1.3	1.1	1.0
Solid biofuels and renewable waste	1.0	1.2	1.1	1.2	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	0.1	0.1	0.0	0.0
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, non-renewable	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	1.0	1.4	1.4	1.4	1.4	1.4
Heat	0.2	0.2	0.2	0.3	0.2	0.2
by Sector						
Industry	1.3	1.3	1.2	1.2	1.1	1.2
Transport	1.5	2.0	2.2	2.1	2.2	2.5
Residential	2.3	2.8	2.2	2.4	2.3	2.2
Services	0.5	0.8	0.8	0.8	0.8	0.8
Agriculture and Fishing	0.3	0.3	0.2	0.3	0.3	0.3
Others	0.0	0.0	0.0	0.0	0.0	0.0

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**2.1**	**4.1**	**4.7**	**4.9**	**5.0**	**5.4**
Combustible Fuels	0.0	1.9	1.8	1.5	1.5	1.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.1	2.1	2.2	2.2	2.2	2.2
Wind	0.0	0.1	0.6	1.0	1.0	1.2
Solar	0.0	0.0	0.1	0.1	0.2	0.5
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel [TWh]	**11.3**	**14.9**	**12.8**	**15.2**	**14.2**	**17.5**
Solid fossil fuels, peat and products, oil shale	1.6	2.4	1.6	1.5	1.6	1.3
Oil and petroleum products	1.7	0.6	0.0	0.0	0.1	0.0
Natural gas	1.6	2.6	2.6	3.1	3.5	3.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	6.5	9.3	8.3	10.5	9.0	12.2
Wastes non-RES	0.0	0.0	0.0	0.0	0.0	0.0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0.9	0.9	0.9	0.9
CHP Electricity Generation [TWh]			2.3	2.7	2.6	2.2
CHP in Total Electricity Generation [%]			18.3	18.0	18.3	12.6
CHP Heat Production [PJ]			17.6	20.0	17.5	16.3
Transport Fuels [ktoe]						
Final consumption petroleum products	2293	2629	2609	2507	2691	2972
of which LPG	100	183	150	136	116	107
of which motor gasoline	835	692	508	473	506	567
of which Gas/Diesel oil	1359	1755	1951	1898	2068	2298
Final consumption biofuels	0	3	63	91	21	0
pure and blended biogasoline	0	0	1	1	0	0
pure and blended biodiesel	0	3	62	90	21	0
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	7.8	8.9	8.2	8.3	8.3	8.5
Final energy consumption 2020-2030 [Mtoe]	6.0	7.2	6.9	7.0	6.9	7.1
Primary Energy Intensity 2020-2030 [toe/M€'15]	221	193	159	155	145	145
Energy Intensity (GAE/GDP2015) [toe/M€'15	239	207	170	163	149	150
Energy per Capita (GIC/pop) [kgoe/capita]	1883	2201	2215	2233	2203	2296
Final Electricity per Capita [KWh/capita]	2508	3463	3215	3907	3682	4555
Import Dependency [%]	**48.4%**	**46.7%**	**56.4%**	**54.7%**	**60.4%**	**55.9%**
of Solid fossil fuels	110.9%	102.6%	107.3%	100.7%	100.9%	109.2%
of Hard Coal	112.8%	102.8%	108.6%	100.7%	101.3%	109.9%
of Oil and petroleum products	61.0%	80.8%	76.9%	79.0%	87.3%	83.4%
of Crude and NGL	72.1%	82.3%	71.1%	67.3%	70.3%	63.0%
of Natural Gas	41.0%	18.1%	66.4%	74.5%	77.5%	68.7%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		25.10%	28.47%	31.28%	28.09%	28.05%
RE-T - Renewable energy in Transport [%]		1.12%	5.85%	6.98%	2.39%	0.92%
RES-E - Renewable Electricity Generation [%]		37.52%	49.78%	53.47%	56.24%	58.83%
RES-H&C - Renewable Heating and Cooling [%]		32.88%	36.79%	38.01%	37.21%	36.17%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	19.7	21.0	17.8	17.4	17.6	18.5
GHG Greenhouse gases (CO_2, N_2O*	25.8	28.3	24.8	24.4	24.5	25.4
Main Emissions Indicators						
GHG total emissions [index 1990=100]	81.8%	89.6%	78.6%	77.4%	77.7%	80.6%
Total GHG per capita [t CO_2 eq./capita]	5.7	6.6	6.3	6.3	6.3	6.6

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.13 Italy

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	28.2	32.9	36.9	37.1	34.7	36.1
Solid fossil fuels	0.0	0.1	0.0	0.0	0.0	0.0
of which hard coal	0.0	0.1	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	4.7	5.6	4.7	5.2	4.8	5.6
of which crude oil	4.6	5.1	4.3	4.8	4.5	4.2
Natural gas	13.6	6.9	3.9	2.6	2.5	2.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	9.6	19.4	27.1	28.1	26.2	27.2
Wastes, Non-Renewable	0.3	1.0	1.2	1.2	1.2	1.2
Net Imports	152.4	148.5	122.5	114.9	119.2	108.1
Solid fossil fuels	13.1	13.8	6.4	5.4	7.6	4.6
of which hard coal	12.9	13.8	6.2	5.1	7.6	4.6
Oil and petroleum products	88.0	66.8	52.4	45.1	50.2	48.5
of which crude oil and NGL	83.6	78.2	63.1	56.8	61.9	60.2
Natural gas	47.0	61.6	57.9	58.5	55.7	48.5
Renewables and biofuels	0.5	2.5	2.5	2.2	2.0	2.0
Electricity	3.8	3.8	3.3	3.7	3.7	4.4
Gross inland consumption	174.5	176.8	155.4	154.1	148.1	142.2
Solid fossil fuels	12.6	13.7	6.5	5.5	7.4	4.8
of which hard coal	12.2	13.6	6.3	5.3	7.4	4.8
of which brown coal	0.0	0.2	0.0	0.0	0.0	0.0
Oil and petroleum products	89.9	68.4	54.0	51.0	51.5	52.2
of which crude and NGL	87.9	82.8	67.3	61.8	65.8	64.8
Natural gas	57.9	68.1	60.9	62.4	56.1	50.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	10.1	21.9	29.5	30.3	28.2	29.2
Electricity	3.8	3.8	3.3	3.7	3.7	4.4
Waste, non-renewable	0.3	1.0	1.2	1.2	1.2	1.2
Available for final consumption	128.8	131.7	118.7	109.3	120.4	112.0
Final non-energy consumption	8.4	9.6	7.0	6.8	5.9	5.7
Final energy consumption	119.7	123.1	113.1	103.1	114.7	110.8
by Fuel/Product						
Solid fossil fuels	1.5	0.6	0.6	0.3	0.3	0.3
Oil and petroleum products	55.0	45.6	38.9	38.9	41.0	41.0
Natural gas	37.6	38.5	33.0	36.6	31.6	29.5
Renewables and biofuels	1.7	9.1	10.9	11.9	11.3	11.4
Solid biofuels and renewable waste	1.5	7.4	6.7	7.4	6.8	6.6
Solar thermal	0.0	0.1	0.2	0.2	0.3	0.3
Geothermal	0.2	0.1	0.1	0.1	0.1	0.1
Liquid biofuels	0.0	1.4	1.3	1.4	1.4	1.5
Biogases	0.0	0.0	0.0	0.1	0.1	0.1
Waste, non-renewable	0.1	0.2	0.3	0.3	0.3	0.3
Electricity	23.5	25.7	25.1	25.1	24.7	24.0
Heat	0.0	3.3	4.2	1.5	1.5	1.4
by Sector						
Industry	37.6	29.0	24.9	26.4	24.6	23.5
Transport	39.7	38.6	35.9	34.8	36.7	37.1
Residential	27.6	35.4	31.1	33.4	30.0	27.6
Services	11.5	17.0	18.2	16.8	16.1	16.6
Agriculture and Fishing	3.2	2.9	2.9	3.2	3.1	3.0
Others	0.2	0.2	0.1	0.1	0.2	0.2

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**75.5**	**106.6**	**116.4**	**116.8**	**120.4**	**130.1**
Combustible Fuels	54.0	74.7	61.3	59.5	60.1	61.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	20.3	21.5	22.5	22.7	22.9	22.9
Wind	0.4	5.8	10.7	11.3	11.8	12.3
Solar	0.0	3.6	20.9	22.3	24.6	29.4
Geothermal	0.6	0.7	0.8	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]	**276.6**	**302.1**	**293.9**	**289.1**	**284.0**	**264.7**
Solid fossil fuels, peat and products, oil shale	26.3	39.7	18.8	14.0	22.6	13.2
Oil and petroleum products	85.9	21.7	10.2	7.7	12.9	10.2
Natural gas	105.6	157.4	144.1	145.9	143.0	120.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	50.9	77.0	115.8	116.3	100.5	116.6
Wastes non-RES	0.5	2.1	2.4	2.4	2.4	2.4
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			8.6	7.4	6.9	7.0
CHP Electricity Generation [TWh]			40.5	34.7	32.6	31.2
CHP in Total Electricity Generation [%]			13.8	12.0	11.5	11.8
CHP Heat Production [PJ]			216.9	169.9	166.2	163.0
Transport Fuels [ktoe]						
Final consumption petroleum products	47568	41649	36534	35895	37227	37261
of which LPG	4286	3675	3572	3419	3450	3498
of which motor gasoline	17652	10462	7850	7385	8263	8574
of which Gas/Diesel oil	25629	27512	25111	25091	25514	25188
Final consumption biofuels	0	1419	1276	1427	1395	1507
pure and blended biogasoline	0	122	30	27	35	85
pure and blended biodiesel	0	1297	1246	1388	1354	1404
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	166.1	167.3	145.9	145.6	139.6	134.8
Final energy consumption 2020-2030 [Mtoe]	122.6	126.2	114.6	113.8	110.9	108.7
Primary Energy Intensity 2020-2030 [toe/M€'15]	99	97	84	85	77	74
Energy Intensity (GAE/GDP2015) [toe/M€'15	104	103	90	90	82	78
Energy per Capita (GIC/pop) [kgoe/capita]	3066	2963	2598	2601	2508	2410
Final Electricity per Capita [KWh/capita]	4860	5060	4913	4880	4810	4487
Import Dependency [%]	**87.3%**	**84.0%**	**78.8%**	**74.5%**	**80.5%**	**76.0%**
of Solid fossil fuels	104.6%	100.8%	98.6%	97.0%	102.4%	96.4%
of Hard Coal	105.7%	101.4%	98.4%	97.0%	102.3%	95.4%
of Oil and petroleum products	97.9%	97.6%	97.1%	88.5%	97.4%	93.0%
of Crude and NGL	95.1%	94.5%	93.9%	92.0%	94.1%	92.8%
of Natural Gas	81.1%	90.5%	95.1%	93.7%	99.2%	96.3%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		13.02%	18.18%	18.88%	19.13%	19.59%
RE-T - Renewable energy in Transport [%]		4.92%	9.05%	9.87%	10.05%	10.25%
RES-E - Renewable Electricity Generation [%]		20.09%	34.97%	36.00%	37.10%	38.10%
RES-H&C - Renewable Heating and Cooling [%]		15.64%	19.70%	19.34%	20.57%	21.71%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	470.8	436.7	340.5	336.8	340.9	313.1
GHG Greenhouse gases (CO_2, N_2O*	561.8	522.9	417.4	412.2	412.9	384.7
Main Emissions Indicators						
GHG total emissions [index 1990=100]	107.5%	100.0%	79.8%	78.8%	79.0%	73.6%
Total GHG per capita [t CO_2 eq./capita]	9.9	8.8	7.0	7.0	7.0	6.5

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.14 Cyprus

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**0.0**	**0.1**	**0.2**	**0.2**	**0.3**	**0.3**
Solid fossil fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	0.0	0.0	0.0	0.0	0.0	0.0
of which crude oil	0.0	0.0	0.0	0.0	0.0	0.0
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.0	0.1	0.2	0.2	0.2	0.3
Wastes, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Net Imports	**2.6**	**3.0**	**2.7**	**2.4**	**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
Oil and petroleum products	2.5	2.9	2.6	2.2	2.5	2.5
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	0.1	0.1	0.1
Electricity	0.0	0.0	0.0	0.0	0.0	0.0
Gross inland consumption	**2.4**	**2.8**	**2.6**	**2.4**	**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	2.6	2.3	2.0	2.2	2.2
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	0.2	0.3	0.3	0.3
Electricity	0.0	0.0	0.0	0.0	0.0	0.0
Waste, non-renewable	0.0	0.0	0.0	0.0	0.0	0.0
Available for final consumption	**1.5**	**1.7**	**1.7**	**1.6**	**1.6**	**1.7**
Final non-energy consumption	**0.1**	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**
Final energy consumption	**1.4**	**1.6**	**1.6**	**1.5**	**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	1.0	0.9	0.9	0.9
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.0	0.1	0.2	0.2	0.2	0.2
Solid biofuels and renewable waste	0.0	0.0	0.1	0.1	0.1	0.1
Solar thermal	0.0	0.1	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	0.4	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	0.2	0.2	0.2	0.3	0.3
Transport	0.6	0.8	0.7	0.7	0.7	0.7
Residential	0.2	0.3	0.4	0.4	0.4	0.3
Services	0.1	0.2	0.3	0.3	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

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**1.0**	**1.6**	**1.8**	**2.0**	**2.1**	**2.3**
Combustible Fuels	1.0	1.5	1.5	1.5	1.5	1.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.1	0.2	0.2	0.2	0.2
Solar	0.0	0.0	0.2	0.3	0.4	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]	**3.4**	**5.3**	**5.1**	**5.1**	**5.3**	**5.3**
Solid fossil fuels, peat and products, oil shale	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	3.4	5.2	4.6	4.3	4.4	4.2
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	0.0	0.1	0.5	0.8	0.9	1.1
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]			0.0	0.0	0.0	0.0
CHP in Total Electricity Generation [%]			0.6	0.7	0.6	0.6
CHP Heat Production [PJ]			0.1	0.2	0.1	0.1
Transport Fuels [ktoe]						
Final consumption petroleum products	833	949	881	819	824	840
of which LPG	60	60	69	62	66	62
of which motor gasoline	218	413	356	323	328	343
of which Gas/Diesel oil	556	476	457	434	430	434
Final consumption biofuels	0	15	11	25	24	22
pure and blended biogasoline	0	0	0	0	0	0
pure and blended biodiesel	0	15	11	25	24	22
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	2.3	2.7	2.5	2.3	2.5	2.5
Final energy consumption 2020-2030 [Mtoe]	1.6	1.9	1.9	1.7	1.8	1.9
Primary Energy Intensity 2020-2030 [toe/M€'15]	167	137	111	94	94	93
Energy Intensity (GAE/GDP2015) [toe/M€'15	173	142	115	98	98	97
Energy per Capita (GIC/pop) [kgoe/capita]	3511	3370	2950	2635	2765	2753
Final Electricity per Capita [KWh/capita]	4881	6497	5776	5598	5666	5615
Import Dependency [%]	**106.4%**	**107.4%**	**102.6%**	**98.9%**	**102.3%**	**100.4%**
of Solid fossil fuels	102.0%	65.6%	117.2%	97.6%	147.3%	41.9%
of Hard Coal	102.0%	65.4%	117.2%	97.6%	147.3%	0.0%
of Oil and petroleum products	108.4%	111.5%	111.6%	110.7%	113.4%	113.2%
of Crude and NGL	98.5%	0.0%	0.0%	0.0%	0.0%	0.0%
of Natural Gas	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		6.16%	13.78%	19.07%	19.43%	20.21%
RE-T - Renewable energy in Transport [%]		1.99%	3.32%	7.19%	7.23%	7.28%
RES-E - Renewable Electricity Generation [%]		1.39%	9.76%	14.84%	16.96%	20.94%
RES-H&C - Renewable Heating and Cooling [%]		18.81%	35.05%	42.59%	41.56%	42.75%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	7.1	8.1	7.3	7.0	7.1	7.2
GHG Greenhouse gases (CO_2, N_2O*	8.3	9.4	8.4	8.2	8.3	8.5
Main Emissions Indicators						
GHG total emissions [index 1990=100]	148.7%	169.1%	151.0%	146.7%	149.5%	152.4%
Total GHG per capita [t CO_2 eq./capita]	12.0	11.5	9.5	9.0	9.0	9.0

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.15 Latvia

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	1.4	2.0	2.8	2.7	2.9	3.3
Solid fossil fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	0.0	0.0	0.0	0.0	0.0	0.0
of which crude oil	0.0	0.0	0.0	0.0	0.0	0.0
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	1.4	2.0	2.8	2.7	2.9	3.2
Wastes, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Net Imports	2.4	2.2	2.2	1.8	1.7	1.4
Solid fossil fuels	0.1	0.1	0.0	0.0	0.0	0.0
of which hard coal	0.1	0.1	0.0	0.0	0.0	0.0
Oil and petroleum products	1.2	1.7	1.8	1.6	1.6	1.6
of which crude oil and NGL	0.0	0.0	0.0	0.0	0.0	0.0
Natural gas	1.1	0.9	1.1	1.0	0.7	0.7
Renewables and biofuels	-0.2	-0.6	-0.9	-0.9	-0.9	-1.0
Electricity	0.2	0.1	0.1	0.2	0.2	0.1
Gross inland consumption	3.9	4.6	4.6	4.6	4.4	4.4
Solid fossil fuels	0.1	0.1	0.0	0.0	0.0	0.0
of which hard coal	0.1	0.1	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	1.5	1.5	1.5	1.5	1.6
of which crude and NGL	0.0	0.0	0.0	0.0	0.0	0.0
Natural gas	1.1	1.5	1.1	1.0	0.7	0.7
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	1.2	1.4	1.8	1.9	1.9	2.0
Electricity	0.2	0.1	0.1	0.2	0.2	0.1
Waste, non-renewable	0.0	0.0	0.0	0.0	0.1	0.1
Available for final consumption	3.3	4.1	4.0	3.9	4.1	3.9
Final non-energy consumption	0.1	0.1	0.1	0.1	0.1	0.1
Final energy consumption	3.2	4.0	3.9	3.8	4.0	3.8
by Fuel/Product						
Solid fossil fuels	0.1	0.1	0.0	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	0.3	0.4	0.3	0.3
Renewables and biofuels	0.8	0.9	1.0	1.0	1.0	1.0
Solid biofuels and renewable waste	0.8	0.9	1.0	1.0	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	0.0	0.1	0.1
Electricity	0.4	0.5	0.6	0.6	0.6	0.5
Heat	0.6	0.6	0.6	0.6	0.6	0.5
by Sector						
Industry	0.6	0.8	0.9	0.9	0.9	0.9
Transport	0.7	1.1	1.1	1.1	1.0	1.0
Residential	1.3	1.4	1.2	1.2	1.1	1.1
Services	0.5	0.6	0.6	0.6	0.6	0.5
Agriculture and Fishing	0.1	0.2	0.2	0.2	0.2	0.2
Others	0.0	0.0	0.0	0.0	0.0	0.0

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**2.1**	**2.6**	**2.9**	**2.9**	**3.0**	**3.2**
Combustible Fuels	0.6	1.0	1.3	1.3	1.2	1.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.5	1.6	1.6	1.6	1.6	1.6
Wind	0.0	0.0	0.1	0.1	0.1	0.1
Solar	0.0	0.0	0.0	0.0	0.1	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]	**4.1**	**6.6**	**6.4**	**5.8**	**5.0**	**6.4**
Solid fossil fuels, peat and products, oil shale	0.1	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	0.1	0.0	0.0	0.0	0.0	0.0
Natural gas	1.1	3.0	3.2	2.1	1.2	1.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	2.8	3.6	3.2	3.7	3.8	5.0
Wastes non-RES	0.0	0.0	0.0	0.0	0.0	0.0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			1.3	1.3	1.2	1.2
CHP Electricity Generation [TWh]			2.6	2.6	1.8	1.9
CHP in Total Electricity Generation [%]			41.1	44.3	35.3	28.9
CHP Heat Production [PJ]			13.7	13.1	10.3	10.1
Transport Fuels [ktoe]						
Final consumption petroleum products	889	1 278	1 331	1 319	1 310	1 331
of which LPG	50	50	82	74	78	96
of which motor gasoline	354	302	182	172	148	155
of which Gas/Diesel oil	485	926	1 067	1 073	1 084	1 080
Final consumption biofuels	0	27	37	49	19	14
pure and blended biogasoline	0	8	7	12	10	9
pure and blended biodiesel	0	19	30	38	9	5
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	3.8	4.6	4.6	4.5	4.3	4.3
Final energy consumption 2020-2030 [Mtoe]	3.3	4.1	4.1	4.1	3.9	3.9
Primary Energy Intensity 2020-2030 [toe/M€'15]	280	230	172	164	154	149
Energy Intensity (GAE/GDP2015) [toe/M€'15	286	233	176	168	157	153
Energy per Capita (GIC/pop) [kgoe/capita]	1 623	2 183	2 421	2 419	2 330	2 328
Final Electricity per Capita [KWh/capita]	1 737	3 125	3 353	3 088	2 682	3 392
Import Dependency [%]	**61.1%**	**48.0%**	**46.7%**	**40.1%**	**39.2%**	**33.0%**
of Solid fossil fuels	84.1%	106.5%	110.8%	93.1%	193.2%	87.1%
of Hard Coal	82.5%	106.6%	110.8%	93.1%	193.2%	87.1%
of Oil and petroleum products	95.5%	110.0%	119.2%	106.6%	109.0%	101.4%
of Crude and NGL	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
of Natural Gas	101.9%	61.8%	100.0%	100.0%	99.8%	100.1%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		30.38%	40.93%	42.10%	43.72%	43.22%
RE-T - Renewable energy in Transport [%]		3.98%	4.55%	6.44%	3.12%	1.36%
RES-E - Renewable Electricity Generation [%]		42.05%	53.42%	51.40%	53.52%	54.32%
RES-H&C - Renewable Heating and Cooling [%]		40.74%	57.75%	57.36%	60.96%	61.36%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	7.1	8.6	7.6	7.2	6.6	6.6
GHG Greenhouse gases (CO_2, N_2O*	10.2	11.9	11.1	10.7	10.1	10.0
Main Emissions Indicators						
GHG total emissions [index 1990=100]	39.1%	45.6%	42.7%	41.1%	38.8%	38.3%
Total GHG per capita [t CO_2 eq./capita]	4.3	5.6	5.8	5.7	5.4	5.3

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.16 Lithuania

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	3.5	1.6	2.0	2.2	2.0	2.2
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	0.3	0.1	0.0	0.0	0.0	0.0
of which crude oil	0.3	0.1	0.0	0.0	0.0	0.0
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	2.3	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.7	1.2	1.7	1.9	1.8	2.0
Wastes, Non-Renewable	0.0	0.0	0.0	0.1	0.1	0.1
Net Imports	4.3	5.7	6.0	6.0	5.3	5.0
Solid fossil fuels	0.1	0.2	0.2	0.1	0.2	0.1
of which hard coal	0.0	0.1	0.2	0.1	0.2	0.1
Oil and petroleum products	2.3	2.7	3.2	3.1	3.1	3.1
of which crude oil and NGL	4.6	9.1	9.6	8.1	8.3	9.1
Natural gas	2.1	2.5	1.9	1.9	1.3	1.2
Renewables and biofuels	0.0	-0.1	-0.1	0.0	0.0	0.0
Electricity	-0.1	0.5	0.8	0.8	0.7	0.6
Gross inland consumption	7.3	7.1	7.8	7.9	7.1	7.2
Solid fossil fuels	0.1	0.2	0.2	0.2	0.2	0.1
of which hard coal	0.0	0.1	0.2	0.1	0.1	0.1
of which brown coal	0.1	0.1	0.0	0.0	0.0	0.0
Oil and petroleum products	2.2	2.6	3.0	2.9	3.0	3.1
of which crude and NGL	4.9	9.2	9.6	8.0	8.4	9.3
Natural gas	2.1	2.5	1.9	1.9	1.3	1.2
Nuclear	2.3	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.7	1.1	1.6	1.9	1.8	2.0
Electricity	-0.1	0.5	0.8	0.8	0.7	0.6
Waste, non-renewable	0.0	0.0	0.0	0.1	0.1	0.1
Available for final consumption	4.3	5.4	6.6	6.4	6.7	6.0
Final non-energy consumption	0.7	0.7	1.2	1.1	1.0	0.6
Final energy consumption	3.7	4.8	5.5	5.3	5.7	5.4
by Fuel/Product						
Solid fossil fuels	0.1	0.2	0.2	0.2	0.2	0.1
Oil and petroleum products	1.3	1.6	2.2	2.1	2.1	2.2
Natural gas	0.4	0.6	0.6	0.6	0.6	0.6
Renewables and biofuels	0.6	0.7	0.7	0.8	0.8	0.8
Solid biofuels and renewable waste	0.6	0.7	0.6	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	0.1	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	0.9	1.0	0.9	0.9
Heat	0.8	0.9	0.8	0.9	0.7	0.7
by Sector						
Industry	0.8	0.9	1.1	1.1	1.0	0.9
Transport	1.0	1.5	2.2	2.1	2.1	2.1
Residential	1.4	1.6	1.4	1.6	1.6	1.5
Services	0.5	0.6	0.6	0.6	0.6	0.6
Agriculture and Fishing	0.1	0.1	0.1	0.1	0.1	0.1
Others	0.0	0.0	0.0	0.0	0.0	0.0

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**5.7**	**3.6**	**3.4**	**3.7**	**4.3**	**5.3**
Combustible Fuels	2.5	2.5	1.8	1.9	1.9	1.9
Nuclear	2.4	0.0	0.0	0.0	0.0	0.0
Hydro	0.9	0.9	0.9	0.9	0.9	0.9
Wind	0.0	0.1	0.5	0.7	0.9	1.3
Solar	0.0	0.0	0.1	0.3	0.6	1.2
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel [TWh]	**11.4**	**5.7**	**4.0**	**5.1**	**4.8**	**6.0**
Solid fossil fuels, peat and products, oil shale	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	0.7	0.6	0.1	0.1	0.4	0.2
Natural gas	1.6	3.2	0.5	1.2	0.5	0.6
Nuclear	8.4	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.3	0.9	2.5	2.6	3.0	4.4
Wastes non-RES	0.0	0.0	0.1	0.2	0.2	0.2
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0.6	0.5	0.6	0.6
CHP Electricity Generation [TWh]			1.1	1.3	1.3	1.3
CHP in Total Electricity Generation [%]			27.4	25.7	27.8	22.4
CHP Heat Production [PJ]			11.0	13.7	13.5	14.7
Transport Fuels [ktoe]						
Final consumption petroleum products	1 185	1 545	2 190	2 127	2 121	2 179
of which LPG	205	224	158	134	143	174
of which motor gasoline	400	298	244	238	263	293
of which Gas/Diesel oil	579	1 023	1 788	1 755	1 715	1 712
Final consumption biofuels	0	45	75	127	120	118
pure and blended biogasoline	0	10	10	17	20	20
pure and blended biodiesel	0	34	65	110	100	98
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	6.5	6.2	6.3	6.6	6.3	6.3
Final energy consumption 2020-2030 [Mtoe]	3.8	4.8	5.6	5.7	5.4	5.3
Primary Energy Intensity 2020-2030 [toe/M€'15]	325	203	142	141	131	131
Energy Intensity (GAE/GDP2015) [toe/M€'15	365	233	177	169	148	149
Energy per Capita (GIC/pop) [kgoe/capita]	2 093	2 254	2 774	2 828	2 542	2 519
Final Electricity per Capita [KWh/capita]	3 253	1 830	1 412	1 807	1 704	2 092
Import Dependency [%]	**58.5%**	**80.6%**	**77.1%**	**75.0%**	**74.0%**	**69.2%**
of Solid fossil fuels	101.7%	95.7%	108.1%	91.9%	127.8%	89.9%
of Hard Coal	100.0%	109.7%	109.1%	91.2%	132.1%	87.0%
of Oil and petroleum products	105.2%	104.0%	107.3%	108.3%	104.0%	100.0%
of Crude and NGL	94.5%	99.0%	100.8%	100.3%	99.2%	98.3%
of Natural Gas	100.0%	99.7%	100.0%	100.8%	101.2%	96.0%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		19.64%	25.47%	28.17%	29.60%	31.93%
RE-T - Renewable energy in Transport [%]		3.79%	4.05%	6.47%	6.68%	7.23%
RES-E - Renewable Electricity Generation [%]		7.40%	18.79%	21.28%	26.46%	36.47%
RES-H&C - Renewable Heating and Cooling [%]		32.53%	47.37%	48.62%	51.54%	53.61%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	11.9	13.8	13.7	13.8	12.9	12.5
GHG Greenhouse gases (CO_2, N_2O*	18.9	20.3	19.7	19.8	18.4	17.9
Main Emissions Indicators						
GHG total emissions [index 1990=100]	39.8%	42.6%	41.5%	41.6%	38.8%	37.6%
Total GHG per capita [t CO_2 eq./capita]	5.4	6.5	7.0	7.0	6.6	6.3

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.17 Luxembourg

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**0.1**	**0.1**	**0.2**	**0.3**	**0.3**	**0.3**
Solid fossil fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	0.0	0.0	0.0	0.0	0.0	0.0
of which crude oil	0.0	0.0	0.0	0.0	0.0	0.0
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.0	0.1	0.2	0.3	0.3	0.3
Wastes, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Net Imports	**3.6**	**4.5**	**4.3**	**3.9**	**3.5**	**3.3**
Solid fossil fuels	0.1	0.1	0.0	0.0	0.0	0.0
of which hard coal	0.1	0.1	0.0	0.0	0.0	0.0
Oil and petroleum products	2.4	2.9	3.0	2.6	2.3	2.2
of which crude oil and NGL	0.0	0.0	0.0	0.0	0.0	0.0
Natural gas	0.7	1.2	0.7	0.7	0.5	0.5
Renewables and biofuels	0.0	0.0	0.1	0.1	0.1	0.1
Electricity	0.5	0.3	0.5	0.5	0.5	0.4
Gross inland consumption	**3.7**	**4.6**	**4.5**	**4.2**	**3.8**	**3.7**
Solid fossil fuels	0.1	0.1	0.0	0.0	0.0	0.0
of which hard coal	0.1	0.1	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	2.9	2.9	2.6	2.3	2.3
of which crude and NGL	0.0	0.0	0.0	0.0	0.0	0.0
Natural gas	0.7	1.2	0.7	0.7	0.5	0.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.0	0.1	0.3	0.4	0.4	0.4
Electricity	0.5	0.3	0.5	0.5	0.5	0.4
Waste, non-renewable	0.0	0.0	0.0	0.0	0.0	0.0
Available for final consumption	**3.2**	**3.9**	**3.8**	**3.3**	**3.5**	**3.1**
Final non-energy consumption	**0.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Final energy consumption	**3.2**	**3.9**	**3.8**	**3.3**	**3.4**	**3.0**
by Fuel/Product						
Solid fossil fuels	0.1	0.1	0.0	0.0	0.0	0.0
Oil and petroleum products	1.9	2.4	2.3	1.9	1.7	1.6
Natural gas	0.6	0.7	0.6	0.6	0.5	0.5
Renewables and biofuels	0.0	0.1	0.2	0.2	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	0.1	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	0.6	0.6	0.5	0.5	0.5
Heat	0.0	0.1	0.1	0.1	0.1	0.1
by Sector						
Industry	0.7	0.8	0.6	0.6	0.5	0.5
Transport	1.6	2.2	2.2	1.8	1.6	1.5
Residential	0.5	0.5	0.5	0.5	0.5	0.5
Services	0.4	0.4	0.5	0.6	0.4	0.4
Agriculture and Fishing	0.0	0.0	0.0	0.0	0.0	0.0
Others	0.0	0.0	0.0	0.0	0.0	0.0

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**1.2**	**1.7**	**1.8**	**1.9**	**2.0**	**2.1**
Combustible Fuels	0.1	0.5	0.1	0.1	0.1	0.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	1.1	1.1	1.3	1.3	1.3	1.3
Wind	0.0	0.0	0.1	0.1	0.2	0.2
Solar	0.0	0.0	0.2	0.3	0.3	0.4
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel [TWh]	**1.2**	**4.6**	**1.9**	**2.2**	**2.3**	**2.5**
Solid fossil fuels, peat and products, oil shale	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	0.0	0.0	0.0	0.0	0.0	0.0
Natural gas	0.2	2.9	0.2	0.2	0.1	0.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.2	0.3	0.8	1.0	1.0	1.2
Wastes non-RES	0.0	0.0	0.1	0.1	0.1	0.1
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0.1	0.1	0.1	0.2
CHP Electricity Generation [TWh]			0.4	0.5	0.4	0.4
CHP in Total Electricity Generation [%]			22.1	24.2	19.3	16.9
CHP Heat Production [PJ]			3.8	5.3	5.0	4.8
Transport Fuels [ktoe]						
Final consumption petroleum products	1932	2405	2306	1915	1666	1626
of which LPG	26	13	10	11	9	11
of which motor gasoline	598	362	343	317	322	359
of which Gas/Diesel oil	1307	2031	1953	1586	1335	1256
Final consumption biofuels	0	42	130	139	130	125
pure and blended biogasoline	0	1	17	18	20	23
pure and blended biodiesel	0	41	113	121	110	102
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	3.6	4.6	4.5	4.2	3.8	3.7
Final energy consumption 2020-2030 [Mtoe]	3.5	4.3	4.4	4.1	3.7	3.5
Primary Energy Intensity 2020-2030 [toe/M€'15]	99	95	75	65	60	58
Energy Intensity (GAE/GDP2015) [toe/M€'15	100	95	76	66	60	59
Energy per Capita (GIC/pop) [kgoe/capita]	8433	9250	7405	6651	5915	5584
Final Electricity per Capita [KWh/capita]	2690	9145	3109	3483	3499	3832
Import Dependency [%]	**99.6%**	**97.1%**	**95.0%**	**92.4%**	**91.5%**	**90.6%**
of Solid fossil fuels	100.0%	102.2%	93.1%	88.5%	98.5%	99.6%
of Hard Coal	100.0%	102.5%	92.3%	87.4%	98.3%	99.5%
of Oil and petroleum products	102.1%	99.3%	100.4%	99.8%	99.7%	99.5%
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%	100.0%	100.0%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		2.85%	7.05%	11.73%	14.26%	14.35%
RE-T - Renewable energy in Transport [%]		2.09%	7.71%	7.97%	8.71%	9.15%
RES-E - Renewable Electricity Generation [%]		3.79%	10.86%	14.22%	16.19%	18.04%
RES-H&C - Renewable Heating and Cooling [%]		4.70%	8.69%	12.89%	14.98%	15.48%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	8.7	11.2	9.7	8.4	7.3	6.8
GHG Greenhouse gases (CO_2, N_2O*	9.7	12.2	10.8	9.4	8.2	7.8
Main Emissions Indicators						
GHG total emissions [index 1990=100]	75.8%	95.6%	84.3%	73.7%	64.4%	60.9%
Total GHG per capita [t CO_2 eq./capita]	22.3	24.3	17.5	14.8	12.7	11.8

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.18 Hungary

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	11.6	11.7	10.8	10.6	10.6	10.6
Solid fossil fuels	2.9	1.6	1.0	0.8	0.8	0.7
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	2.9	1.6	1.0	0.8	0.8	0.7
Oil and petroleum products	1.7	1.1	1.2	1.1	1.1	1.1
of which crude oil	1.7	1.1	1.1	1.1	1.1	1.1
Natural gas	2.5	2.2	1.3	1.2	1.2	1.2
Nuclear	3.7	4.0	4.1	4.0	4.0	4.0
Renewables and biofuels	0.8	2.7	3.1	3.4	3.4	3.5
Wastes, Non-Renewable	0.0	0.1	0.1	0.1	0.1	0.1
Net Imports	13.9	15.1	18.6	14.8	16.6	15.1
Solid fossil fuels	1.1	1.1	0.8	0.5	0.5	0.2
of which hard coal	0.9	1.3	1.0	0.8	0.5	0.3
Oil and petroleum products	5.2	5.8	7.1	7.0	7.2	7.0
of which crude oil and NGL	5.8	5.8	5.9	5.9	5.9	5.9
Natural gas	7.3	7.7	9.8	6.2	7.8	7.0
Renewables and biofuels	0.0	0.0	-0.2	-0.2	-0.1	-0.1
Electricity	0.3	0.4	1.1	1.1	1.0	1.0
Gross inland consumption	25.2	26.6	26.7	27.4	25.8	24.3
Solid fossil fuels	3.8	2.7	1.8	1.4	1.2	0.9
of which hard coal	0.9	1.3	1.0	0.8	0.6	0.2
of which brown coal	3.0	1.7	1.0	0.8	0.8	0.7
Oil and petroleum products	6.9	6.8	8.2	8.1	8.1	7.8
of which crude and NGL	7.4	6.8	7.0	6.9	6.6	7.1
Natural gas	9.7	9.8	8.5	9.3	7.9	7.1
Nuclear	3.7	4.0	4.1	4.0	4.0	4.0
Renewables and biofuels	0.8	2.8	2.8	3.2	3.3	3.3
Electricity	0.3	0.4	1.1	1.1	1.0	1.0
Waste, non-renewable	0.0	0.1	0.2	0.2	0.2	0.2
Available for final consumption	17.2	18.9	19.9	19.7	21.2	19.7
Final non-energy consumption	1.6	2.0	2.1	2.2	2.4	1.8
Final energy consumption	15.6	16.9	18.0	17.6	18.8	17.9
by Fuel/Product						
Solid fossil fuels	0.4	0.2	0.2	0.1	0.1	0.1
Oil and petroleum products	4.0	4.4	5.9	5.7	5.9	5.5
Natural gas	6.4	6.1	5.5	6.1	5.2	4.5
Renewables and biofuels	0.8	2.0	1.8	2.0	2.1	2.0
Solid biofuels and renewable waste	0.7	1.7	1.5	1.6	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	0.2	0.2	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	2.5	2.9	3.5	3.6	3.6	3.5
Heat	1.4	1.1	1.0	1.1	1.0	0.9
by Sector						
Industry	3.3	2.6	4.5	4.7	4.3	4.0
Transport	3.1	4.1	5.1	4.9	5.3	4.9
Residential	5.6	6.6	5.7	6.4	5.8	5.4
Services	3.0	3.0	2.1	2.1	1.9	1.6
Agriculture and Fishing	0.7	0.5	0.7	0.7	0.6	0.6
Others	0.0	0.0	0.0	0.0	0.0	0.0

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**8.3**	**9.0**	**10.0**	**11.6**	**12.7**	**14.4**
Combustible Fuels	6.4	6.6	6.2	6.2	6.0	6.0
Nuclear	1.9	2.0	2.0	2.0	2.0	2.0
Hydro	0.0	0.1	0.1	0.1	0.1	0.1
Wind	0.0	0.3	0.3	0.3	0.3	0.3
Solar	0.0	0.0	1.4	3.0	4.2	5.9
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]	**35.2**	**37.4**	**34.3**	**36.1**	**35.8**	**35.5**
Solid fossil fuels, peat and products, oil shale	9.6	6.2	4.0	3.0	3.0	2.5
Oil and petroleum products	4.4	0.5	0.1	0.1	0.1	0.1
Natural gas	6.7	11.7	8.8	9.7	8.9	7.3
Nuclear	14.2	15.8	16.3	16.0	15.8	15.9
Renewables and biofuels	0.2	3.0	4.7	6.9	7.7	9.4
Wastes non-RES	0.1	0.2	0.2	0.3	0.3	0.3
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			1.5	1.6	1.6	1.6
CHP Electricity Generation [TWh]			4.6	5.6	4.6	4.0
CHP in Total Electricity Generation [%]			13.4	15.4	12.7	11.2
CHP Heat Production [PJ]			27.5	30.1	27.6	25.9
Transport Fuels [ktoe]						
Final consumption petroleum products	3699	4263	5541	5369	5654	5247
of which LPG	368	211	256	266	233	223
of which motor gasoline	1414	1348	1507	1388	1472	1439
of which Gas/Diesel oil	1917	2703	3778	3715	3949	3585
Final consumption biofuels	0	175	202	285	304	313
pure and blended biogasoline	0	57	46	87	90	87
pure and blended biodiesel	0	118	157	198	214	226
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	23.6	24.6	24.6	24.9	23.9	22.1
Final energy consumption 2020-2030 [Mtoe]	15.9	17.1	18.2	18.9	18.1	16.8
Primary Energy Intensity 2020-2030 [toe/M€'15]	286	242	184	182	167	156
Energy Intensity (GAE/GDP2015) [toe/M€'15	305	261	200	200	180	172
Energy per Capita (GIC/pop) [kgoe/capita]	2468	2655	2753	2836	2683	2531
Final Electricity per Capita [KWh/capita]	3443	3732	3535	3742	3725	3703
Import Dependency [%]	**55.0%**	**56.9%**	**69.7%**	**54.1%**	**64.2%**	**62.1%**
of Solid fossil fuels	28.1%	41.9%	45.7%	38.5%	41.4%	24.9%
of Hard Coal	96.4%	99.2%	98.8%	98.5%	96.5%	104.2%
of Oil and petroleum products	75.9%	85.3%	86.6%	86.9%	89.4%	89.0%
of Crude and NGL	78.5%	85.3%	84.6%	85.2%	89.8%	83.9%
of Natural Gas	75.4%	78.7%	115.2%	67.2%	99.1%	98.6%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		12.74%	12.63%	14.13%	15.13%	17.12%
RE-T - Renewable energy in Transport [%]		6.16%	8.06%	6.16%	7.77%	7.57%
RES-E - Renewable Electricity Generation [%]		7.10%	9.97%	13.66%	15.33%	19.54%
RES-H&C - Renewable Heating and Cooling [%]		18.08%	18.16%	17.90%	20.23%	22.26%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	58.2	52.0	49.2	48.3	45.3	40.3
GHG Greenhouse gases (CO_2, N_2O*	75.4	66.8	64.9	64.0	59.7	54.3
Main Emissions Indicators						
GHG total emissions [index 1990=100]	79.4%	70.4%	68.4%	67.4%	62.9%	57.2%
Total GHG per capita [t CO_2 eq./capita]	7.4	6.7	6.7	6.6	6.2	5.7

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.19 Malta

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**0.0**	**0.0**	**0.0**	**0.0**	**0.1**	**0.1**
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	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	0.1	0.1
Wastes, Non-Renewable	0.0	0.0	0.0	0.0	0.0	0.0
Net Imports	**1.5**	**2.4**	**3.1**	**2.7**	**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	2.4	2.7	2.3	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	0.3	0.3	0.3	0.3
Renewables and biofuels	0.0	0.0	0.0	0.0	0.0	0.0
Electricity	0.0	0.0	0.1	0.0	0.1	0.1
Gross inland consumption	**0.8**	**0.9**	**0.9**	**0.8**	**0.9**	**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	0.5	0.4	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	0.3	0.3	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	0.1	0.1	0.1
Electricity	0.0	0.0	0.1	0.0	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**	**0.6**	**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**	**0.5**	**0.5**	**0.5**	**0.6**
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	0.3	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	0.0	0.1	0.1	0.1	0.1
Transport	0.2	0.2	0.2	0.2	0.3	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

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	0.0	0.6	0.7	0.8	0.7	0.7
Combustible Fuels	0.0	0.6	0.6	0.6	0.5	0.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.2	0.2	0.2	0.2
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel [TWh]	1.9	2.1	2.1	2.2	2.3	2.3
Solid fossil fuels, peat and products, oil shale	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	1.9	2.1	0.0	0.0	0.1	0.0
Natural gas	0.0	0.0	1.8	1.9	1.9	2.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	0.0	0.0	0.2	0.3	0.3	0.3
Wastes non-RES	0.0	0.0	0.0	0.0	0.0	0.0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0.1	0.1	0.1	0.1
CHP Electricity Generation [TWh]			0.2	0.1	0.1	0.1
CHP in Total Electricity Generation [%]			8.5	6.5	5.6	4.7
CHP Heat Production [PJ]			0.1	0.1	0.1	0.1
Transport Fuels [ktoe]						
Final consumption petroleum products	171	223	294	268	314	311
of which LPG	18	24	29	26	28	27
of which motor gasoline	75	75	85	78	85	89
of which Gas/Diesel oil	78	124	180	164	201	194
Final consumption biofuels	0	1	11	11	13	14
pure and blended biogasoline	0	0	0	0	0	0
pure and blended biodiesel	0	1	11	11	13	14
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	0.8	0.9	0.9	0.8	0.9	0.9
Final energy consumption 2020-2030 [Mtoe]	0.4	0.5	0.7	0.6	0.7	0.7
Primary Energy Intensity 2020-2030 [toe/M€'15]	134	120	65	52	58	56
Energy Intensity (GAE/GDP2015) [toe/M€'15	134	121	67	54	60	58
Energy per Capita (GIC/pop) [kgoe/capita]	2080	2266	1828	1549	1764	1740
Final Electricity per Capita [KWh/capita]	4931	5105	4178	4291	4409	4325
Import Dependency [%]	181.8%	252.0%	341.4%	332.5%	328.2%	330.5%
of Solid fossil fuels	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
of Hard Coal	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
of Oil and petroleum products	181.8%	253.3%	548.1%	599.3%	551.0%	565.5%
of Crude and NGL	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
of Natural Gas	0.0%	0.0%	103.6%	103.5%	100.2%	93.9%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		0.98%	8.23%	12.63%	13.97%	15.08%
RE-T - Renewable energy in Transport [%]		0.00%	8.90%	10.52%	10.47%	10.75%
RES-E - Renewable Electricity Generation [%]		0.03%	7.49%	9.65%	10.12%	10.74%
RES-H&C - Renewable Heating and Cooling [%]		7.28%	23.60%	32.61%	39.94%	47.47%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	2.5	2.6	1.6	1.6	1.8	1.8
GHG Greenhouse gases (CO_2, N_2O*	2.7	3.0	2.1	2.1	2.3	2.2
Main Emissions Indicators						
GHG total emissions [index 1990=100]	104.7%	112.9%	81.0%	80.0%	86.0%	85.5%
Total GHG per capita [t CO_2 eq./capita]	7.1	7.2	4.3	4.1	4.3	4.1

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.20 The Netherlands

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	58.5	71.1	33.2	26.6	24.3	20.7
Solid fossil fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	2.7	1.6	1.1	1.1	0.7	0.7
of which crude oil	2.4	1.5	0.9	0.9	0.5	0.4
Natural gas	52.8	64.7	23.9	15.5	12.9	8.5
Nuclear	1.0	0.9	0.9	0.9	1.0	0.9
Renewables and biofuels	1.4	3.1	6.3	7.9	8.7	9.7
Wastes, Non-Renewable	0.6	0.7	0.8	0.8	0.8	0.7
Net Imports	35.0	28.3	56.3	50.1	63.2	53.6
Solid fossil fuels	7.7	7.6	6.6	5.6	5.6	3.9
of which hard coal	7.7	7.5	6.6	5.5	5.7	4.2
Oil and petroleum products	42.9	44.5	41.9	33.9	42.0	36.1
of which crude oil and NGL	60.7	60.4	63.3	58.1	61.8	62.9
Natural gas	-17.2	-24.2	8.4	10.2	15.1	14.6
Renewables and biofuels	-0.1	0.1	-0.8	0.3	0.7	-0.7
Electricity	1.6	0.2	0.1	0.0	-0.4	-0.5
Gross inland consumption	78.3	86.2	76.2	74.3	67.3	65.3
Solid fossil fuels	7.8	7.5	6.4	5.6	5.5	3.8
of which hard coal	7.8	7.4	6.4	5.6	5.6	4.1
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	30.9	33.4	30.2	28.5	28.1	28.8
of which crude and NGL	62.8	61.9	63.4	60.0	59.6	64.3
Natural gas	35.0	40.1	32.1	30.2	23.4	22.2
Nuclear	1.0	0.9	0.9	0.9	1.0	0.9
Renewables and biofuels	1.3	3.3	5.4	8.0	8.5	9.1
Electricity	1.6	0.2	0.1	0.0	-0.4	-0.5
Waste, non-renewable	0.6	0.7	0.9	0.9	0.9	0.8
Available for final consumption	58.5	64.5	56.3	55.2	56.4	49.4
Final non-energy consumption	11.3	14.4	12.0	12.8	12.8	10.3
Final energy consumption	47.6	50.8	44.1	41.9	43.3	39.4
by Fuel/Product						
Solid fossil fuels	0.1	0.1	0.2	0.1	0.1	0.1
Oil and petroleum products	14.3	15.6	13.7	12.3	12.1	12.5
Natural gas	20.6	21.5	16.7	17.1	13.9	12.7
Renewables and biofuels	0.5	1.0	2.0	2.1	2.2	2.2
Solid biofuels and renewable waste	0.4	0.6	0.7	0.8	0.7	0.7
Solar thermal	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.0	0.0	0.1	0.2	0.2	0.2
Liquid biofuels	0.0	0.2	0.7	0.7	0.6	0.6
Biogases	0.1	0.1	0.1	0.1	0.1	0.1
Waste, non-renewable	0.0	0.1	0.1	0.0	0.0	0.0
Electricity	8.2	9.3	9.2	9.2	8.9	8.7
Heat	3.7	3.0	2.1	2.0	1.8	1.6
by Sector						
Industry	15.2	14.3	13.3	13.3	12.3	11.6
Transport	10.6	11.7	10.6	9.1	9.1	9.5
Residential	10.8	12.5	9.3	10.1	8.6	7.7
Services	6.3	8.0	6.7	6.7	6.3	6.2
Agriculture and Fishing	4.5	4.2	4.2	4.0	3.0	3.1
Others	0.1	0.1	0.1	0.1	0.1	0.1

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**21.1**	**26.7**	**36.8**	**47.7**	**51.5**	**57.6**
Combustible Fuels	20.1	23.7	24.2	24.3	24.4	24.4
Nuclear	0.4	0.5	0.5	0.5	0.5	0.5
Hydro	0.0	0.0	0.0	0.0	0.0	0.0
Wind	0.4	2.2	4.5	7.6	8.7	10.7
Solar	0.0	0.1	7.2	14.8	17.4	21.3
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]	**89.6**	**119.3**	**121.4**	**122.2**	**121.6**	**121.3**
Solid fossil fuels, peat and products, oil shale	24.3	22.6	17.7	14.6	14.8	8.7
Oil and petroleum products	2.6	1.3	1.4	1.3	1.6	1.5
Natural gas	54.4	78.5	73.1	59.5	50.3	47.9
Nuclear	3.9	4.0	3.9	3.8	4.2	4.0
Renewables and biofuels	3.0	11.2	22.8	40.4	48.1	56.8
Wastes non-RES	1.2	1.6	2.0	2.0	2.0	1.8
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			8.8	8.3	8.8	8.9
CHP Electricity Generation [TWh]			32.2	31.4	27.4	25.9
CHP in Total Electricity Generation [%]			26.6	25.7	22.5	21.3
CHP Heat Production [PJ]			174.2	173.4	154.9	143.9
Transport Fuels [ktoe]						
Final consumption petroleum products	12340	12756	11068	9643	9567	9917
of which LPG	723	487	250	248	235	227
of which motor gasoline	3964	4048	4179	3589	3674	4106
of which Gas/Diesel oil	7653	8221	6639	5806	5658	5584
Final consumption biofuels	0	243	720	683	646	622
pure and blended biogasoline	0	134	199	233	251	257
pure and blended biodiesel	0	95	480	429	362	352
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	66.9	71.7	63.7	60.8	56.2	53.8
Final energy consumption 2020-2030 [Mtoe]	50.9	54.1	47.8	45.3	42.1	41.0
Primary Energy Intensity 2020-2030 [toe/M€'15]	115	107	83	77	68	65
Energy Intensity (GAE/GDP2015) [toe/M€'15	134	129	99	94	81	79
Energy per Capita (GIC/pop) [kgoe/capita]	4934	5198	4410	4250	3823	3667
Final Electricity per Capita [KWh/capita]	5650	7196	7025	6991	6911	6812
Import Dependency [%]	**44.7%**	**32.8%**	**73.9%**	**67.4%**	**94.0%**	**82.0%**
of Solid fossil fuels	99.4%	101.4%	102.1%	99.6%	102.1%	102.4%
of Hard Coal	98.9%	101.6%	101.8%	98.6%	102.2%	102.1%
of Oil and petroleum products	138.8%	133.4%	138.9%	119.2%	149.7%	125.3%
of Crude and NGL	96.7%	97.6%	99.9%	96.8%	103.6%	97.7%
of Natural Gas	-49.1%	-60.4%	26.3%	33.8%	64.8%	65.8%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		3.92%	8.89%	13.12%	15.13%	17.42%
RE-T - Renewable energy in Transport [%]		3.40%	12.33%	9.22%	11.08%	13.43%
RES-E - Renewable Electricity Generation [%]		9.60%	18.23%	33.25%	39.65%	46.40%
RES-H&C - Renewable Heating and Cooling [%]		3.10%	7.22%	8.09%	9.08%	10.20%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	172.7	182.9	153.2	140.4	128.0	117.4
GHG Greenhouse gases (CO_2, N_2O*	220.2	214.9	181.5	167.2	153.6	142.6
Main Emissions Indicators						
GHG total emissions [index 1990=100]	98.7%	96.3%	81.4%	74.9%	68.8%	63.9%
Total GHG per capita [t CO_2 eq./capita]	13.9	13.0	10.5	9.6	8.7	8.0

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.21 Austria

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	9.8	12.1	12.4	12.7	12.2	13.0
Solid fossil fuels	0.3	0.0	0.0	0.0	0.0	0.0
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	0.3	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	1.1	1.1	0.7	0.6	0.5	0.5
of which crude oil	1.1	1.1	0.7	0.6	0.5	0.5
Natural gas	1.5	1.4	0.8	0.6	0.5	0.5
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	6.6	9.0	10.4	10.9	10.5	11.3
Wastes, Non-Renewable	0.3	0.6	0.6	0.7	0.7	0.7
Net Imports	19.2	21.9	24.9	17.7	24.2	19.3
Solid fossil fuels	3.0	3.4	2.8	2.5	2.5	2.5
of which hard coal	2.3	2.4	2.1	1.9	1.8	1.8
Oil and petroleum products	11.0	11.8	12.3	10.7	10.8	10.9
of which crude oil and NGL	7.4	6.9	8.7	7.7	5.2	7.7
Natural gas	5.3	6.1	9.4	3.9	10.3	6.0
Renewables and biofuels	0.0	0.4	0.1	0.0	-0.1	-0.1
Electricity	-0.1	0.2	0.3	0.6	0.7	0.0
Gross inland consumption	29.2	34.8	34.8	34.2	32.6	31.6
Solid fossil fuels	3.6	3.4	2.9	2.6	2.5	2.4
of which hard coal	2.5	2.5	2.2	1.9	1.8	1.7
of which brown coal	0.3	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	12.3	13.0	12.9	11.8	11.4	11.4
of which crude and NGL	8.5	8.0	9.3	8.4	5.7	8.2
Natural gas	6.6	8.1	7.7	7.7	6.9	5.9
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	6.6	9.5	10.4	10.8	10.4	11.3
Electricity	-0.1	0.2	0.3	0.6	0.7	0.0
Waste, non-renewable	0.3	0.6	0.6	0.7	0.7	0.7
Available for final consumption	23.6	27.8	28.3	27.0	28.6	26.8
Final non-energy consumption	1.7	1.8	2.1	2.1	2.2	1.8
Final energy consumption	21.8	26.0	26.2	24.9	26.4	25.0
by Fuel/Product						
Solid fossil fuels	0.7	0.4	0.3	0.2	0.2	0.2
Oil and petroleum products	9.0	9.7	9.5	8.8	8.4	8.0
Natural gas	4.0	4.7	4.8	4.9	4.4	3.9
Renewables and biofuels	2.4	4.1	4.2	4.6	4.4	4.5
Solid biofuels and renewable waste	2.3	3.2	3.1	3.5	3.3	3.2
Solar thermal	0.1	0.2	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	0.5	0.5	0.4	0.4	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	0.2
Electricity	4.4	5.2	5.5	5.5	5.5	5.3
Heat	1.0	1.6	1.7	1.9	1.7	1.6
by Sector						
Industry	6.0	7.6	7.5	7.5	7.5	6.9
Transport	6.4	8.2	8.8	8.0	7.6	7.4
Residential	6.3	7.1	6.7	7.8	6.9	6.6
Services	2.6	2.6	2.6	2.6	2.5	2.4
Agriculture and Fishing	0.5	0.5	0.5	0.6	0.5	0.5
Others	0.0	0.0	0.0	0.0	0.0	0.0

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	17.8	21.3	25.9	28.1	28.5	31.6
Combustible Fuels	6.1	7.3	6.4	7.2	6.2	6.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	11.6	12.9	14.6	14.7	14.9	15.0
Wind	0.1	1.0	3.2	3.4	3.6	3.9
Solar	0.0	0.1	1.7	2.8	3.8	6.4
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]	61.3	71.1	74.2	70.9	69.2	74.5
Solid fossil fuels, peat and products, oil shale	5.7	4.9	1.5	0.1	0.1	0.0
Oil and petroleum products	1.7	1.3	0.7	0.7	0.7	0.8
Natural gas	8.9	16.1	13.2	12.6	12.8	9.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	43.4	45.0	54.6	52.9	50.4	59.7
Wastes non-RES	0.1	0.6	0.8	0.7	0.8	0.7
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			2.9	5.0	5.2	5.4
CHP Electricity Generation [TWh]			9.7	11.5	10.7	9.4
CHP in Total Electricity Generation [%]			13.1	16.3	15.5	12.6
CHP Heat Production [PJ]			110.2	112.2	108.1	99.2
Transport Fuels [ktoe]						
Final consumption petroleum products	8274	9352	9351	8725	8294	7871
of which LPG	166	177	73	74	69	67
of which motor gasoline	2016	1767	1559	1364	1412	1538
of which Gas/Diesel oil	6093	7408	7718	7286	6813	6266
Final consumption biofuels	17	532	515	445	430	520
pure and blended biogasoline	0	78	57	52	52	100
pure and blended biodiesel	17	454	459	393	379	420
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	27.5	32.9	32.3	31.6	30.3	29.3
Final energy consumption 2020-2030 [Mtoe]	22.4	26.5	26.8	26.4	25.1	24.2
Primary Energy Intensity 2020-2030 [toe/M€'15]	99	101	87	86	79	77
Energy Intensity (GAE/GDP2015) [toe/M€'15	105	107	93	94	85	83
Energy per Capita (GIC/pop) [kgoe/capita]	3652	4171	3925	3830	3631	3472
Final Electricity per Capita [KWh/capita]	7655	8517	8380	7936	7706	8178
Import Dependency [%]	65.6%	62.8%	71.6%	51.9%	74.2%	61.1%
of Solid fossil fuels	83.9%	99.6%	96.7%	99.4%	99.9%	102.0%
of Hard Coal	91.6%	97.3%	98.4%	100.8%	99.2%	103.8%
of Oil and petroleum products	89.2%	90.6%	95.8%	90.5%	94.8%	96.3%
of Crude and NGL	86.9%	86.5%	94.0%	91.7%	91.3%	94.2%
of Natural Gas	80.6%	75.3%	122.8%	51.0%	149.1%	101.6%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		31.21%	33.75%	34.79%	34.07%	40.84%
RE-T - Renewable energy in Transport [%]		10.71%	10.05%	9.57%	10.74%	13.21%
RES-E - Renewable Electricity Generation [%]		66.36%	75.07%	73.88%	74.81%	87.76%
RES-H&C - Renewable Heating and Cooling [%]		30.96%	33.93%	33.43%	31.29%	39.39%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	66.2	72.0	68.0	65.8	61.5	56.9
GHG Greenhouse gases (CO_2, N_2O*	81.4	85.4	80.6	78.1	73.5	68.7
Main Emissions Indicators						
GHG total emissions [index 1990=100]	102.2%	107.3%	101.3%	98.1%	92.3%	86.3%
Total GHG per capita [t CO_2 eq./capita]	10.2	10.2	9.1	8.7	8.2	7.5

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.22 Poland

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	78.6	66.8	62.1	60.1	59.2	54.2
Solid fossil fuels	70.7	55.1	44.4	42.0	40.7	35.4
of which hard coal	58.6	43.5	34.8	31.7	30.1	27.5
of which brown coal	12.1	11.6	9.5	10.3	10.6	7.8
Oil and petroleum products	0.7	0.7	1.0	0.9	0.9	0.8
of which crude oil	0.7	0.7	1.0	0.9	0.9	0.8
Natural gas	3.3	3.7	3.4	3.3	3.3	3.2
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	3.8	6.9	12.3	12.8	13.3	13.9
Wastes, Non-Renewable	0.1	0.4	1.1	1.0	1.0	1.0
Net Imports	9.6	32.1	48.1	44.5	48.3	47.3
Solid fossil fuels	-16.3	-2.7	2.6	-1.7	3.4	1.7
of which hard coal	-13.8	1.8	6.9	3.3	7.7	6.5
Oil and petroleum products	19.8	25.7	30.7	30.5	32.6	32.2
of which crude oil and NGL	18.1	22.8	26.8	23.8	26.5	24.7
Natural gas	6.6	8.9	13.4	15.2	12.2	12.8
Renewables and biofuels	0.0	0.4	0.5	0.3	0.2	0.2
Electricity	-0.5	-0.1	0.9	0.1	-0.1	0.3
Gross inland consumption	89.2	101.6	106.1	109.6	104.5	98.2
Solid fossil fuels	56.3	55.2	43.8	45.9	42.1	34.0
of which hard coal	46.3	48.5	38.8	40.5	36.1	30.9
of which brown coal	12.1	11.6	9.5	10.4	10.6	7.9
Oil and petroleum products	19.6	26.0	31.3	31.3	32.9	33.0
of which crude and NGL	18.3	23.2	27.7	25.1	27.0	25.4
Natural gas	10.0	12.8	16.2	18.2	15.0	15.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	3.8	7.3	12.7	13.1	13.4	14.1
Electricity	-0.5	-0.1	0.9	0.1	-0.1	0.3
Waste, non-renewable	0.1	0.4	1.1	1.0	1.0	1.0
Available for final consumption	57.1	70.4	77.7	77.1	80.5	76.4
Final non-energy consumption	4.4	5.0	5.6	5.8	5.2	5.5
Final energy consumption	53.6	65.3	71.9	70.2	74.1	70.8
by Fuel/Product						
Solid fossil fuels	11.9	13.2	9.0	8.7	7.3	6.8
Oil and petroleum products	15.2	20.2	25.4	26.2	26.3	26.4
Natural gas	6.3	8.9	9.3	10.7	9.6	9.4
Renewables and biofuels	3.5	5.3	9.2	9.0	8.9	8.7
Solid biofuels and renewable waste	3.5	4.3	7.7	7.3	6.9	6.6
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	0.9	1.0	1.1	1.2	1.3
Biogases	0.0	0.0	0.1	0.1	0.1	0.1
Waste, non-renewable	0.1	0.4	0.8	0.8	0.8	0.7
Electricity	8.4	10.2	12.1	12.4	12.0	11.5
Heat	6.9	6.5	5.6	6.0	5.6	5.2
by Sector						
Industry	17.1	13.5	16.5	16.3	15.1	13.7
Transport	9.6	17.2	22.7	23.5	23.9	23.7
Residential	17.2	22.0	21.0	22.1	20.5	19.9
Services	5.0	8.8	7.8	8.4	8.1	8.1
Agriculture and Fishing	4.6	3.7	3.8	3.8	3.3	3.6
Others	0.0	0.0	0.0	0.0	0.0	0.0

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**30.6**	**33.4**	**43.4**	**45.4**	**55.0**	**62.3**
Combustible Fuels	28.4	29.9	33.6	36.1	33.1	33.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	2.2	2.3	2.4	2.4	2.4	2.4
Wind	0.0	1.1	5.8	7.0	8.2	9.3
Solar	0.0	0.0	1.5	7.4	11.4	17.5
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]	**145.2**	**157.7**	**164.0**	**179.6**	**179.7**	**167.4**
Solid fossil fuels, peat and products, oil shale	135.9	136.5	118.1	127.6	124.7	98.8
Oil and petroleum products	1.9	2.9	1.8	2.0	2.4	2.0
Natural gas	3.0	6.7	17.1	18.1	13.3	18.3
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	2.3	10.9	25.5	30.6	37.7	45.9
Wastes non-RES	0.1	0.0	0.6	0.6	0.6	0.6
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			9.7	10.6	10.4	1 082.0
CHP Electricity Generation [TWh]			29.9	30.8	28.6	27.0
CHP in Total Electricity Generation [%]			18.3	17.1	15.9	16.1
CHP Heat Production [PJ]			248.5	259.6	247.9	235.8
Transport Fuels [ktoe]						
Final consumption petroleum products	13 789	19 566	24 888	25 574	25 872	26 049
of which LPG	1 153	2 618	2 946	2 725	2 745	2 797
of which motor gasoline	5 291	4 252	4 544	4 677	4 985	5 237
of which Gas/Diesel oil	7 344	12 696	17 398	18 171	18 141	18 015
Final consumption biofuels	0	867	1 026	1 121	1 205	1 291
pure and blended biogasoline	0	170	187	208	232	244
pure and blended biodiesel	0	698	838	912	971	1 047
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	84.8	96.6	100.2	103.9	98.4	93.3
Final energy consumption 2020-2030 [Mtoe]	53.8	65.7	72.7	74.3	71.3	69.6
Primary Energy Intensity 2020-2030 [toe/M€'15]	333	261	192	191	173	162
Energy Intensity (GAE/GDP2015) [toe/M€'15	350	274	204	201	184	171
Energy per Capita (GIC/pop) [kgoe/capita]	2 332	2 672	2 793	2 956	2 837	2 672
Final Electricity per Capita [KWh/capita]	3 794	4 146	4 319	4 845	4 873	4 554
Import Dependency [%]	**10.8%**	**31.6%**	**45.4%**	**40.6%**	**46.1%**	**48.2%**
of Solid fossil fuels	-29.0%	-5.0%	6.0%	-3.6%	8.0%	5.0%
of Hard Coal	-29.9%	3.7%	17.8%	8.3%	21.4%	20.9%
of Oil and petroleum products	101.2%	99.0%	98.2%	97.5%	99.2%	97.6%
of Crude and NGL	99.2%	98.4%	96.7%	94.6%	98.0%	97.3%
of Natural Gas	66.3%	69.3%	82.4%	83.6%	81.2%	81.3%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		9.28%	15.38%	15.60%	16.63%	16.56%
RE-T - Renewable energy in Transport [%]		6.64%	6.20%	5.68%	5.80%	5.99%
RES-E - Renewable Electricity Generation [%]		6.55%	14.36%	17.17%	21.01%	25.79%
RES-H&C - Renewable Heating and Cooling [%]		11.81%	22.00%	20.98%	22.07%	20.41%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	317.8	334.6	317.9	331.2	315.3	283.6
GHG Greenhouse gases (CO_2, N_2O*	393.5	406.0	386.2	399.3	380.8	348.4
Main Emissions Indicators						
GHG total emissions [index 1990=100]	82.6%	85.3%	81.1%	83.9%	80.5%	73.2%
Total GHG per capita [t CO_2 eq./capita]	10.3	10.7	10.2	10.8	10.4	9.5

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.23 Portugal

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	3.8	5.8	6.6	7.0	6.7	7.3
Solid fossil fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	0.0	0.0	0.0	0.0	0.0	0.0
of which crude oil	0.0	0.0	0.0	0.0	0.0	0.0
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	3.8	5.6	6.4	6.8	6.6	7.2
Wastes, Non-Renewable	0.1	0.2	0.2	0.2	0.1	0.1
Net Imports	22.2	18.7	18.4	14.9	16.6	15.2
Solid fossil fuels	3.9	1.6	1.5	0.0	0.0	0.0
of which hard coal	4.0	1.6	1.5	0.0	0.0	0.0
Oil and petroleum products	16.2	12.5	11.6	9.6	10.8	10.6
of which crude oil and NGL	11.7	11.5	11.5	9.6	10.3	9.7
Natural gas	2.0	4.5	5.3	5.0	5.0	3.7
Renewables and biofuels	0.0	-0.2	-0.3	-0.2	-0.1	-0.1
Electricity	0.1	0.2	0.3	0.4	0.8	0.9
Gross inland consumption	25.4	24.4	23.9	21.5	22.6	22.1
Solid fossil fuels	3.8	1.7	1.2	0.2	0.0	0.0
of which hard coal	3.8	1.7	1.2	0.2	0.0	0.0
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	15.6	12.4	10.8	9.1	10.3	10.1
of which crude and NGL	11.8	11.6	11.4	9.8	10.4	9.7
Natural gas	2.0	4.5	5.3	5.0	4.8	3.8
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	3.8	5.5	6.1	6.6	6.5	7.1
Electricity	0.1	0.2	0.3	0.4	0.8	0.9
Waste, non-renewable	0.1	0.2	0.2	0.2	0.2	0.2
Available for final consumption	19.5	19.0	17.6	16.4	16.9	17.2
Final non-energy consumption	2.4	1.7	1.2	1.2	1.3	1.0
Final energy consumption	17.2	17.3	16.4	15.2	15.8	16.2
by Fuel/Product						
Solid fossil fuels	0.4	0.1	0.0	0.0	0.0	0.0
Oil and petroleum products	10.1	8.4	7.2	6.5	6.9	7.2
Natural gas	0.8	1.6	1.8	1.9	1.7	1.6
Renewables and biofuels	2.4	2.5	2.9	3.0	3.2	3.2
Solid biofuels and renewable waste	2.4	2.2	1.8	1.8	1.8	1.8
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	0.3	0.3	0.4	0.4	0.4
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, non-renewable	0.0	0.1	0.1	0.1	0.1	0.1
Electricity	3.3	4.3	4.1	4.1	4.2	4.3
Heat	0.1	0.3	0.2	0.2	0.2	0.1
by Sector						
Industry	6.3	5.5	4.6	4.5	4.5	4.3
Transport	6.0	6.5	6.0	5.5	5.8	6.2
Residential	2.8	3.0	2.9	3.0	3.0	3.0
Services	1.4	1.9	2.4	2.2	2.4	2.4
Agriculture and Fishing	0.7	0.5	0.5	0.5	0.5	0.5
Others	0.0	0.0	0.0	0.0	0.0	0.0

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**10.9**	**18.9**	**21.6**	**21.3**	**22.6**	**23.7**
Combustible Fuels	6.3	9.9	8.2	7.0	6.2	6.1
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Hydro	4.5	5.1	7.3	7.3	8.2	8.2
Wind	0.1	3.8	5.2	5.4	5.5	5.5
Solar	0.0	0.1	0.9	1.6	2.6	3.9
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]	**43.8**	**54.1**	**53.2**	**51.0**	**48.8**	**49.0**
Solid fossil fuels, peat and products, oil shale	14.6	7.1	5.5	0.8	0.0	0.0
Oil and petroleum products	8.4	3.0	1.3	1.2	1.3	1.2
Natural gas	7.2	14.9	17.3	15.6	17.4	10.4
Nuclear	0.0	0.0	0.0	0.0	0.0	0.0
Renewables and biofuels	12.9	28.4	27.4	31.5	27.6	34.4
Wastes non-RES	0.3	0.3	0.3	0.3	0.2	0.2
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			1.3	1.3	1.0	1.0
CHP Electricity Generation [TWh]			6.4	6.1	4.9	4.0
CHP in Total Electricity Generation [%]			12.1	11.9	10.1	8.1
CHP Heat Production [PJ]			62.1	59.3	51.5	47.1
Transport Fuels [ktoe]						
Final consumption petroleum products	8310	7439	6566	6017	6264	6576
of which LPG	1139	728	557	491	485	480
of which motor gasoline	2272	1459	1108	998	1086	1212
of which Gas/Diesel oil	4899	5252	4901	4528	4693	4884
Final consumption biofuels	0	327	283	356	354	368
pure and blended biogasoline	0	0	8	17	26	25
pure and blended biodiesel	0	323	275	339	329	342
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	23.0	22.7	22.1	19.5	20.8	20.7
Final energy consumption 2020-2030 [Mtoe]	17.9	18.1	17.1	15.7	16.7	17.2
Primary Energy Intensity 2020-2030 [toe/M€'15]	132	121	110	101	100	97
Energy Intensity (GAE/GDP2015) [toe/M€'15	145	130	120	111	109	104
Energy per Capita (GIC/pop) [kgoe/capita]	2476	2306	2313	2073	2167	2100
Final Electricity per Capita [KWh/capita]	4270	5116	5144	4905	4684	4663
Import Dependency [%]	**87.5%**	**76.6%**	**76.8%**	**69.0%**	**73.5%**	**68.6%**
of Solid fossil fuels	102.9%	98.3%	122.1%	4.5%	107.4%	81.2%
of Hard Coal	103.4%	98.3%	122.3%	1.2%	107.7%	87.9%
of Oil and petroleum products	103.6%	101.1%	106.8%	105.0%	105.4%	105.1%
of Crude and NGL	99.0%	98.8%	100.4%	98.6%	99.2%	99.9%
of Natural Gas	100.3%	100.4%	99.9%	100.0%	104.0%	97.5%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		24.15%	30.62%	33.98%	34.68%	35.16%
RE-T - Renewable energy in Transport [%]		5.55%	9.09%	8.61%	8.71%	11.16%
RES-E - Renewable Electricity Generation [%]		40.61%	53.77%	58.43%	60.99%	63.01%
RES-H&C - Renewable Heating and Cooling [%]		33.81%	41.66%	42.68%	45.54%	47.10%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	65.7	53.1	47.7	40.5	40.9	37.7
GHG Greenhouse gases (CO_2, N_2O*	82.1	68.9	63.6	56.2	56.4	53.2
Main Emissions Indicators						
GHG total emissions [index 1990=100]	139.4%	117.0%	108.0%	95.3%	95.7%	90.4%
Total GHG per capita [t CO_2 eq./capita]	8.0	6.5	6.2	5.4	5.4	5.1

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.24 Romania

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**28.5**	**27.4**	**24.5**	**23.0**	**22.2**	**22.0**
Solid fossil fuels	5.6	5.9	3.9	3.0	2.8	2.2
of which hard coal	0.2	0.0	0.0	0.0	0.0	0.0
of which brown coal	5.4	5.9	3.9	3.0	2.8	2.2
Oil and petroleum products	6.4	4.2	3.5	3.2	3.0	2.9
of which crude oil	6.4	4.2	3.5	3.2	3.0	2.9
Natural gas	11.0	8.6	8.3	7.4	7.5	7.7
Nuclear	1.4	2.9	2.8	2.9	2.8	2.9
Renewables and biofuels	4.0	5.7	5.8	6.1	5.7	6.0
Wastes, Non-Renewable	0.1	0.0	0.1	0.3	0.3	0.3
Net Imports	**8.0**	**7.5**	**10.1**	**10.9**	**10.3**	**8.6**
Solid fossil fuels	1.9	1.2	1.1	0.9	0.7	0.3
of which hard coal	1.6	0.1	0.1	0.1	0.0	0.0
Oil and petroleum products	3.5	4.6	6.5	7.2	7.7	7.9
of which crude oil and NGL	4.8	5.7	8.6	6.8	8.7	7.3
Natural gas	2.7	1.8	2.1	2.3	1.5	0.3
Renewables and biofuels	0.0	0.1	0.2	0.3	0.3	0.3
Electricity	-0.1	-0.2	0.1	0.2	0.1	-0.3
Gross inland consumption	**36.8**	**35.0**	**33.2**	**34.3**	**31.7**	**30.8**
Solid fossil fuels	7.5	6.9	4.9	4.0	3.5	2.6
of which hard coal	1.7	0.1	0.1	0.1	0.0	0.0
of which brown coal	5.5	6.2	4.3	3.4	3.0	2.3
Oil and petroleum products	10.1	8.6	9.9	10.5	10.5	11.1
of which crude and NGL	11.1	10.0	12.0	10.1	11.6	10.4
Natural gas	13.7	10.8	9.3	9.9	8.3	7.8
Nuclear	1.4	2.9	2.8	2.9	2.8	2.9
Renewables and biofuels	4.0	5.9	6.0	6.4	6.0	6.3
Electricity	-0.1	-0.2	0.1	0.2	0.1	-0.3
Waste, non-renewable	0.1	0.0	0.2	0.3	0.3	0.3
Available for final consumption	**24.1**	**24.8**	**25.1**	**25.1**	**26.7**	**24.8**
Final non-energy consumption	**1.9**	**2.1**	**1.1**	**1.3**	**1.2**	**0.7**
Final energy consumption	**21.9**	**22.0**	**23.7**	**23.5**	**25.3**	**23.9**
by Fuel/Product						
Solid fossil fuels	0.3	0.5	0.7	0.7	0.6	0.3
Oil and petroleum products	5.4	6.0	8.3	8.4	9.0	9.4
Natural gas	6.5	6.0	5.6	6.6	5.4	5.0
Renewables and biofuels	2.7	4.0	3.8	4.1	3.9	3.8
Solid biofuels and renewable waste	2.7	3.9	3.4	3.6	3.4	3.2
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	0.1	0.4	0.5	0.6	0.5
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, non-renewable	0.1	0.0	0.2	0.3	0.3	0.3
Electricity	2.9	3.6	3.9	4.0	3.7	3.6
Heat	3.6	1.6	1.1	1.0	0.9	0.8
by Sector						
Industry	8.6	6.5	6.7	6.9	5.7	5.0
Transport	3.3	5.0	6.6	6.9	7.4	7.7
Residential	8.4	8.1	7.8	8.8	7.9	7.6
Services	0.7	1.9	2.0	1.9	1.9	2.1
Agriculture and Fishing	0.4	0.4	0.6	0.6	0.6	0.5
Others	0.5	0.2	0.2	0.4	0.4	0.5

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**16.8**	**19.9**	**20.9**	**18.8**	**19.3**	**19.8**
Combustible Fuels	10.0	11.6	8.4	6.3	6.4	5.7
Nuclear	0.7	1.4	1.4	1.4	1.4	1.4
Hydro	6.1	6.5	6.7	6.7	6.7	6.7
Wind	0.0	0.4	3.0	3.0	3.0	3.0
Solar	0.0	0.0	1.4	1.4	1.8	3.0
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]	**51.6**	**61.0**	**59.6**	**59.5**	**56.0**	**58.0**
Solid fossil fuels, peat and products, oil shale	18.9	20.7	13.6	10.7	10.4	8.1
Oil and petroleum products	3.4	0.7	0.6	0.8	1.1	0.7
Natural gas	9.0	7.3	9.1	10.1	9.4	9.2
Nuclear	5.5	11.6	11.3	11.3	11.1	11.2
Renewables and biofuels	14.8	20.3	24.6	26.3	23.6	28.4
Wastes non-RES	0.0	0.0	0.0	0.0	0.0	0.0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			1.3	1.5	1.4	1.3
CHP Electricity Generation [TWh]			5.1	4.7	3.9	2.7
CHP in Total Electricity Generation [%]			12.1	7.9	7.0	4.6
CHP Heat Production [PJ]			62.1	36.1	32.8	21.6
Transport Fuels [ktoe]						
Final consumption petroleum products	4355	5662	7377	7755	8289	8641
of which LPG	317	489	514	464	473	438
of which motor gasoline	1403	1457	1395	1382	1407	1471
of which Gas/Diesel oil	2634	3717	5468	5909	6408	6732
Final consumption biofuels	0	116	412	496	559	530
pure and blended biogasoline	0	47	98	121	144	155
pure and blended biodiesel	0	69	315	375	415	376
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	34.9	32.9	32.1	33.1	31.0	29.9
Final energy consumption 2020-2030 [Mtoe]	22.1	22.2	23.9	25.4	24.0	23.3
Primary Energy Intensity 2020-2030 [toe/M€'15]	377	236	163	165	149	141
Energy Intensity (GAE/GDP2015) [toe/M€'15	398	250	169	171	152	145
Energy per Capita (GIC/pop) [kgoe/capita]	1637	1725	1710	1786	1662	1615
Final Electricity per Capita [KWh/capita]	2296	3005	3071	3097	2941	3043
Import Dependency [%]	**21.9%**	**21.4%**	**30.3%**	**31.7%**	**32.4%**	**27.9%**
of Solid fossil fuels	25.5%	16.9%	22.0%	23.2%	20.0%	13.0%
of Hard Coal	96.3%	88.4%	97.7%	102.6%	72.9%	91.4%
of Oil and petroleum products	34.4%	52.7%	65.6%	68.4%	72.8%	70.7%
of Crude and NGL	43.5%	57.2%	72.0%	67.3%	74.5%	70.7%
of Natural Gas	19.8%	16.8%	23.2%	22.8%	18.1%	4.2%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		22.83%	24.29%	23.87%	24.23%	25.76%
RE-T - Renewable energy in Transport [%]		1.37%	7.85%	8.92%	8.92%	8.03%
RES-E - Renewable Electricity Generation [%]		30.38%	42.62%	42.68%	43.73%	47.39%
RES-H&C - Renewable Heating and Cooling [%]		27.23%	25.74%	24.57%	26.25%	29.13%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	93.2	84.5	76.7	77.5	73.2	67.9
GHG Greenhouse gases (CO_2, N_2O*	141.8	124.8	115.3	115.4	109.7	103.9
Main Emissions Indicators						
GHG total emissions [index 1990=100]	55.3%	48.6%	44.9%	45.0%	42.7%	40.5%
Total GHG per capita [t CO_2 eq./capita]	6.3	6.2	5.9	6.0	5.8	5.5

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.25 Slovenia

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**3.2**	**3.7**	**3.4**	**3.3**	**3.0**	**3.2**
Solid fossil fuels	1.1	1.2	0.9	0.7	0.7	0.7
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	1.1	1.2	0.9	0.7	0.7	0.7
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	0.0	0.0	0.0	0.0	0.0
Nuclear	1.2	1.3	1.4	1.4	1.3	1.3
Renewables and biofuels	0.9	1.1	1.1	1.2	1.0	1.2
Wastes, Non-Renewable	0.0	0.0	0.1	0.1	0.1	0.1
Net Imports	**3.4**	**3.6**	**3.6**	**3.2**	**3.4**	**3.0**
Solid fossil fuels	0.2	0.3	0.2	0.1	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	2.3	2.2
of which crude oil and NGL	0.1	0.0	0.0	0.0	0.0	0.0
Natural gas	0.8	0.9	0.7	0.8	0.7	0.7
Renewables and biofuels	0.0	0.0	0.1	0.1	0.1	0.1
Electricity	-0.1	-0.2	0.0	0.0	0.1	-0.1
Gross inland consumption	**6.6**	**7.3**	**6.7**	**6.5**	**6.4**	**6.1**
Solid fossil fuels	1.3	1.5	1.1	0.9	0.7	0.7
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	1.2	1.4	1.0	0.9	0.7	0.7
Oil and petroleum products	2.4	2.6	2.4	2.2	2.4	2.2
of which crude and NGL	0.1	0.0	0.0	0.0	0.0	0.0
Natural gas	0.8	0.9	0.7	0.8	0.7	0.7
Nuclear	1.2	1.3	1.4	1.4	1.3	1.3
Renewables and biofuels	0.9	1.2	1.2	1.3	1.1	1.2
Electricity	-0.1	-0.2	0.0	0.0	0.1	-0.1
Waste, non-renewable	0.0	0.0	0.1	0.1	0.1	0.1
Available for final consumption	**4.8**	**5.3**	**5.1**	**4.6**	**4.9**	**4.9**
Final non-energy consumption	**0.2**	**0.2**	**0.2**	**0.1**	**0.2**	**0.1**
Final energy consumption	**4.5**	**5.0**	**4.9**	**4.4**	**4.8**	**4.8**
by Fuel/Product						
Solid fossil fuels	0.1	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	2.2	2.4	2.2	2.0	2.2	2.1
Natural gas	0.6	0.6	0.6	0.6	0.6	0.5
Renewables and biofuels	0.5	0.7	0.7	0.7	0.6	0.6
Solid biofuels and renewable waste	0.5	0.6	0.5	0.5	0.5	0.5
Solar thermal	0.0	0.0	0.0	0.0	0.0	0.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Liquid biofuels	0.0	0.0	0.1	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	0.1	0.0	0.0	0.0
Electricity	0.9	1.0	1.2	1.2	1.1	1.1
Heat	0.2	0.2	0.2	0.2	0.2	0.1
by Sector						
Industry	1.4	1.3	1.3	1.3	1.2	1.1
Transport	1.2	1.8	1.9	1.8	2.0	1.8
Residential	1.2	1.4	1.1	1.2	1.1	1.0
Services	0.5	0.5	0.5	0.4	0.4	0.4
Agriculture and Fishing	0.1	0.1	0.1	0.1	0.1	0.1
Others	0.0	0.0	0.0	0.0	0.1	0.1

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**2.6**	**3.2**	**3.8**	**4.1**	**4.2**	**4.8**
Combustible Fuels	1.1	1.3	1.5	1.6	1.6	1.7
Nuclear	0.7	0.7	0.7	0.7	0.7	0.7
Hydro	0.8	1.3	1.4	1.4	1.3	1.4
Wind	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.3	0.5	0.6	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]	**13.6**	**16.4**	**16.1**	**15.9**	**13.6**	**15.9**
Solid fossil fuels, peat and products, oil shale	4.6	5.3	4.5	3.8	3.1	3.1
Oil and petroleum products	0.1	0.0	0.0	0.1	0.1	0.0
Natural gas	0.3	0.5	0.5	0.5	0.5	0.5
Nuclear	4.8	5.7	5.8	5.7	5.6	5.6
Renewables and biofuels	3.9	4.7	5.0	5.4	4.1	6.3
Wastes non-RES	0.0	0.0	0.0	0.0	0.0	0.0
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			0.4	0.4	0.3	1.3
CHP Electricity Generation [TWh]			1.2	1.2	1.1	0.9
CHP in Total Electricity Generation [%]			7.3	7.5	7.7	5.9
CHP Heat Production [PJ]			11.0	11.2	9.9	8.9
Transport Fuels [ktoe]						
Final consumption petroleum products	2135	2407	2159	1986	2191	2064
of which LPG	104	92	96	85	82	77
of which motor gasoline	854	604	413	371	431	459
of which Gas/Diesel oil	1177	1710	1651	1531	1677	1528
Final consumption biofuels	0	46	95	103	79	95
pure and blended biogasoline	0	4	4	9	6	9
pure and blended biodiesel	0	41	91	95	73	86
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	6.3	7.0	6.5	6.3	6.2	5.9
Final energy consumption 2020-2030 [Mtoe]	4.6	5.1	4.9	4.7	4.7	4.5
Primary Energy Intensity 2020-2030 [toe/M€'15]	218	186	145	135	129	121
Energy Intensity (GAE/GDP2015) [toe/M€'15	227	192	150	140	133	124
Energy per Capita (GIC/pop) [kgoe/capita]	3301	3544	3241	3105	3027	2872
Final Electricity per Capita [KWh/capita]	6854	8031	7737	7528	6462	7501
Import Dependency [%]	**51.9%**	**49.4%**	**53.4%**	**49.2%**	**53.9%**	**49.3%**
of Solid fossil fuels	18.8%	19.3%	20.1%	11.0%	28.1%	27.0%
of Hard Coal	118.2%	135.3%	95.9%	103.8%	95.6%	99.4%
of Oil and petroleum products	101.5%	99.9%	109.6%	103.5%	98.4%	98.9%
of Crude and NGL	87.2%	0.0%	0.0%	0.0%	0.0%	0.0%
of Natural Gas	99.3%	99.3%	99.2%	99.4%	99.5%	99.4%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		21.08%	21.97%	25.00%	25.00%	25.07%
RE-T - Renewable energy in Transport [%]		3.12%	7.98%	10.64%	7.83%	10.02%
RES-E - Renewable Electricity Generation [%]		32.20%	32.63%	34.98%	37.01%	41.89%
RES-H&C - Renewable Heating and Cooling [%]		29.54%	32.13%	35.22%	33.99%	34.30%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	15.1	16.5	14.1	13.1	12.7	12.0
GHG Greenhouse gases (CO_2, N_2O*	18.7	19.7	17.1	16.0	15.6	14.8
Main Emissions Indicators						
GHG total emissions [index 1990=100]	99.6%	104.8%	91.0%	85.2%	82.6%	78.6%
Total GHG per capita [t CO_2 eq./capita]	9.4	9.6	8.2	7.6	7.4	7.0

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.26 Slovakia

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**6.3**	**6.7**	**6.9**	**7.0**	**6.8**	**7.2**
Solid fossil fuels	1.0	0.6	0.4	0.3	0.2	0.2
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	1.0	0.6	0.4	0.3	0.2	0.2
Oil and petroleum products	0.1	0.0	0.0	0.0	0.0	0.0
of which crude oil	0.1	0.0	0.0	0.0	0.0	0.0
Natural gas	0.1	0.1	0.1	0.0	0.0	0.0
Nuclear	4.3	3.9	4.0	4.1	4.1	4.7
Renewables and biofuels	0.5	2.1	2.2	2.4	2.2	2.1
Wastes, Non-Renewable	0.3	0.0	0.2	0.2	0.2	0.2
Net Imports	**11.5**	**11.4**	**11.9**	**9.4**	**11.6**	**9.6**
Solid fossil fuels	3.4	3.0	2.5	2.5	2.3	2.2
of which hard coal	3.1	2.6	2.2	2.3	2.0	1.9
Oil and petroleum products	2.6	3.5	3.6	3.7	3.9	3.9
of which crude oil and NGL	5.3	5.5	5.2	5.5	5.5	5.4
Natural gas	5.7	5.0	5.6	3.1	5.2	3.8
Renewables and biofuels	0.0	-0.1	0.0	0.0	0.0	0.0
Electricity	-0.2	0.1	0.1	0.1	0.1	-0.3
Gross inland consumption	**17.7**	**18.4**	**17.0**	**17.8**	**16.6**	**16.4**
Solid fossil fuels	4.3	3.9	2.7	2.8	2.4	2.4
of which hard coal	3.0	2.8	2.2	2.4	2.0	2.0
of which brown coal	1.2	0.8	0.5	0.4	0.4	0.4
Oil and petroleum products	2.9	3.5	3.6	3.7	3.8	3.7
of which crude and NGL	5.4	5.5	5.1	5.5	5.4	5.2
Natural gas	5.8	5.0	4.1	4.6	3.8	3.6
Nuclear	4.3	3.9	4.0	4.1	4.1	4.7
Renewables and biofuels	0.5	2.0	2.2	2.3	2.2	2.1
Electricity	-0.2	0.1	0.1	0.1	0.1	-0.3
Waste, non-renewable	0.3	0.0	0.2	0.2	0.2	0.2
Available for final consumption	**11.7**	**12.2**	**11.3**	**10.8**	**11.8**	**11.1**
Final non-energy consumption	**1.4**	**1.1**	**1.0**	**1.2**	**1.3**	**1.1**
Final energy consumption	**9.9**	**11.1**	**10.2**	**9.6**	**10.5**	**9.9**
by Fuel/Product						
Solid fossil fuels	0.9	0.7	0.4	0.4	0.3	0.2
Oil and petroleum products	1.7	2.3	2.8	2.7	2.8	2.8
Natural gas	4.2	3.5	2.6	2.7	2.4	2.3
Renewables and biofuels	0.1	1.3	1.2	1.3	1.2	1.1
Solid biofuels and renewable waste	0.1	1.1	1.0	1.0	1.0	0.8
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	0.1	0.2	0.2	0.2	0.2
Biogases	0.0	0.0	0.0	0.0	0.0	0.0
Waste, non-renewable	0.2	0.0	0.2	0.2	0.2	0.2
Electricity	1.9	2.1	2.2	2.2	2.0	1.8
Heat	0.6	0.9	0.5	0.6	0.5	0.5
by Sector						
Industry	3.5	3.2	3.5	3.4	3.2	2.9
Transport	1.4	2.6	2.8	2.6	2.7	2.6
Residential	2.6	3.0	2.6	3.0	2.7	2.4
Services	2.2	2.1	1.2	1.4	1.3	1.1
Agriculture and Fishing	0.2	0.1	0.1	0.1	0.1	0.1
Others	0.0	0.0	0.0	0.0	0.0	0.0

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**7.5**	**7.9**	**7.7**	**7.5**	**7.5**	**7.5**
Combustible Fuels	2.4	3.5	2.6	2.4	2.4	2.4
Nuclear	2.6	1.8	1.9	2.0	2.0	2.0
Hydro	2.4	2.5	2.5	2.5	2.5	2.5
Wind	0.0	0.0	0.0	0.0	0.0	0.0
Solar	0.0	0.0	0.6	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**	**27.9**	**28.4**	**30.0**	**26.8**	**29.9**
Solid fossil fuels, peat and products, oil shale	5.6	3.6	2.3	1.7	1.6	1.2
Oil and petroleum products	0.2	0.6	0.5	0.4	0.5	0.4
Natural gas	3.9	2.7	3.4	4.9	2.5	2.7
Nuclear	16.5	14.6	15.3	15.7	15.9	18.3
Renewables and biofuels	4.6	5.9	6.6	6.8	5.8	6.7
Wastes non-RES	0.0	0.0	0.0	0.2	0.1	0.1
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			1.5	1.5	1.4	1.2
CHP Electricity Generation [TWh]			3.1	3.5	3.3	2.4
CHP in Total Electricity Generation [%]			10.8	11.8	12.3	8.1
CHP Heat Production [PJ]			34.9	41.0	36.1	31.3
Transport Fuels [ktoe]						
Final consumption petroleum products	1498	2179	2496	2434	2490	2467
of which LPG	33	42	49	57	60	59
of which motor gasoline	612	601	551	514	540	583
of which Gas/Diesel oil	852	1536	1896	1863	1890	1825
Final consumption biofuels	0	98	157	161	171	165
pure and blended biogasoline	0	24	20	26	28	39
pure and blended biodiesel	0	74	137	135	143	126
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	16.4	17.4	16.0	16.4	15.4	15.3
Final energy consumption 2020-2030 [Mtoe]	10.0	11.1	10.2	10.5	9.9	9.1
Primary Energy Intensity 2020-2030 [toe/M€'15]	374	245	178	178	166	161
Energy Intensity (GAE/GDP2015) [toe/M€'15	406	260	190	193	179	173
Energy per Capita (GIC/pop) [kgoe/capita]	3284	3419	3122	3259	3059	3028
Final Electricity per Capita [KWh/capita]	5771	5168	5217	5498	4938	5508
Import Dependency [%]	**65.1%**	**61.9%**	**69.8%**	**52.6%**	**69.6%**	**58.4%**
of Solid fossil fuels	80.2%	75.7%	92.2%	88.1%	96.1%	90.4%
of Hard Coal	103.8%	91.9%	102.7%	95.5%	101.0%	99.0%
of Oil and petroleum products	92.5%	98.4%	101.3%	98.3%	103.0%	105.2%
of Crude and NGL	97.6%	99.9%	100.5%	99.1%	101.1%	103.6%
of Natural Gas	98.8%	99.9%	136.6%	69.0%	137.3%	105.7%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		9.10%	16.89%	17.42%	17.48%	16.99%
RE-T - Renewable energy in Transport [%]		5.29%	8.31%	8.75%	8.93%	9.18%
RES-E - Renewable Electricity Generation [%]		17.77%	22.10%	22.40%	22.90%	24.20%
RES-H&C - Renewable Heating and Cooling [%]		7.90%	19.70%	19.52%	19.88%	18.79%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	41.3	38.5	33.9	35.3	31.6	30.8
GHG Greenhouse gases (CO_2, N_2O*	48.4	45.5	39.7	40.9	36.9	36.1
Main Emissions Indicators						
GHG total emissions [index 1990=100]	65.8%	61.9%	53.9%	55.7%	50.2%	49.1%
Total GHG per capita [t CO_2 eq./capita]	9.0	8.4	7.3	7.5	6.8	6.7

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.27 Finland

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	14.9	17.1	19.0	19.5	19.6	21.9
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	0.1	0.1	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	5.8	5.6	5.7	5.6	6.1	8.0
Renewables and biofuels	7.8	9.4	11.8	13.2	12.7	13.1
Wastes, Non-Renewable	0.1	0.1	0.3	0.3	0.3	0.3
Net Imports	18.6	18.1	14.8	12.9	13.4	9.9
Solid fossil fuels	3.5	4.0	2.1	1.5	2.7	1.2
of which hard coal	3.2	3.7	2.0	1.4	2.5	1.1
Oil and petroleum products	10.6	9.5	8.4	7.2	8.3	7.0
of which crude oil and NGL	11.9	11.4	12.7	8.6	10.1	10.6
Natural gas	3.4	3.8	2.1	2.1	1.1	1.3
Renewables and biofuels	0.0	-0.1	0.4	0.5	0.2	0.2
Electricity	1.0	0.9	1.7	1.5	1.1	0.1
Gross inland consumption	32.8	36.8	34.2	33.7	32.5	33.3
Solid fossil fuels	3.6	4.6	2.1	2.1	2.2	1.7
of which hard coal	3.3	4.3	2.1	1.9	2.1	1.6
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	9.5	10.0	8.5	7.3	7.8	7.8
of which crude and NGL	11.7	11.3	12.8	8.7	10.1	10.8
Natural gas	3.4	3.8	2.1	2.1	1.1	1.3
Nuclear	5.8	5.6	5.7	5.6	6.1	8.0
Renewables and biofuels	7.8	9.3	12.2	13.7	12.9	13.3
Electricity	1.0	0.9	1.7	1.5	1.1	0.1
Waste, non-renewable	0.1	0.1	0.3	0.3	0.3	0.3
Available for final consumption	23.7	26.3	25.7	24.7	25.7	24.3
Final non-energy consumption	1.0	1.2	1.4	1.5	1.3	1.4
Final energy consumption	23.3	25.0	24.8	23.2	24.8	23.2
by Fuel/Product						
Solid fossil fuels	0.3	0.2	0.1	0.1	0.1	0.1
Oil and petroleum products	7.2	7.0	5.9	5.3	5.3	4.9
Natural gas	0.9	0.8	0.7	0.8	0.6	0.6
Renewables and biofuels	4.5	4.8	6.8	7.1	6.3	6.4
Solid biofuels and renewable waste	4.5	4.6	5.6	5.5	4.9	4.8
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	0.7	0.6	0.6
Biogases	0.0	0.0	0.1	0.1	0.1	0.1
Waste, non-renewable	0.0	0.0	0.0	0.1	0.1	0.0
Electricity	6.5	7.2	7.0	7.1	6.6	6.4
Heat	3.3	4.6	3.9	4.1	3.9	3.9
by Sector						
Industry	11.5	10.7	11.0	10.8	9.7	9.3
Transport	3.9	4.3	4.2	4.0	3.9	3.8
Residential	4.5	5.8	5.6	6.0	5.6	5.5
Services	2.3	3.1	3.0	3.1	3.0	2.9
Agriculture and Fishing	0.8	0.8	0.8	0.8	0.7	0.7
Others	0.3	0.3	0.2	0.2	0.3	0.3

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**16.3**	**15.4**	**17.4**	**17.9**	**20.6**	**23.6**
Combustible Fuels	10.7	9.5	8.9	8.3	8.3	8.0
Nuclear	2.6	2.7	2.8	2.8	2.8	4.4
Hydro	2.9	3.0	3.2	3.2	3.2	3.2
Wind	0.0	0.2	2.3	3.3	5.7	6.9
Solar	0.0	0.0	0.2	0.4	0.7	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]	**70.0**	**80.7**	**68.7**	**72.1**	**72.2**	**81.5**
Solid fossil fuels, peat and products, oil shale	12.5	20.8	7.4	4.8	5.6	2.7
Oil and petroleum products	0.6	0.5	0.3	0.2	0.2	0.2
Natural gas	10.8	11.8	4.5	4.7	1.5	1.3
Nuclear	22.5	22.8	23.9	23.6	25.3	34.3
Renewables and biofuels	23.4	24.2	31.9	38.2	38.7	42.3
Wastes non-RES	0.1	0.2	0.5	0.5	0.5	0.4
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			6.4	6.3	6.2	6.3
CHP Electricity Generation [TWh]			22.5	20.6	17.6	14.2
CHP in Total Electricity Generation [%]			32.8	28.6	24.3	17.4
CHP Heat Production [PJ]			242.7	223.3	199.4	177.5
Transport Fuels [ktoe]						
Final consumption petroleum products	6137	6169	5466	4961	4869	4544
of which LPG	263	311	351	341	332	270
of which motor gasoline	1833	1613	1323	1240	1150	1144
of which Gas/Diesel oil	4041	4244	3793	3380	3387	3130
Final consumption biofuels	0	184	433	721	605	621
pure and blended biogasoline	0	81	94	119	124	143
pure and blended biodiesel	0	63	339	602	480	477
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	31.6	35.4	32.1	31.5	30.2	31.3
Final energy consumption 2020-2030 [Mtoe]	23.6	25.6	25.1	24.4	22.9	22.2
Primary Energy Intensity 2020-2030 [toe/M€'15]	179	168	140	138	131	137
Energy Intensity (GAE/GDP2015) [toe/M€'15	185	175	150	147	141	146
Energy per Capita (GIC/pop) [kgoe/capita]	6336	6875	6200	6092	5857	5986
Final Electricity per Capita [KWh/capita]	13531	15075	12441	13033	13011	14655
Import Dependency [%]	**56.6%**	**49.1%**	**43.3%**	**38.3%**	**41.3%**	**29.8%**
of Solid fossil fuels	97.6%	86.3%	98.9%	72.4%	126.3%	70.4%
of Hard Coal	97.7%	85.5%	96.1%	72.0%	121.4%	69.1%
of Oil and petroleum products	111.5%	94.2%	98.9%	99.2%	106.1%	89.8%
of Crude and NGL	101.5%	101.1%	99.0%	98.5%	99.2%	98.5%
of Natural Gas	100.0%	100.0%	100.6%	99.7%	103.2%	105.4%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		32.17%	42.81%	42.82%	47.74%	50.75%
RE-T - Renewable energy in Transport [%]		4.39%	14.85%	20.30%	18.77%	20.64%
RES-E - Renewable Electricity Generation [%]		27.22%	37.97%	39.58%	47.97%	52.37%
RES-H&C - Renewable Heating and Cooling [%]		43.97%	56.88%	52.08%	58.29%	61.26%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	57.1	64.2	42.5	37.9	36.4	31.8
GHG Greenhouse gases (CO_2, N_2O*	70.5	75.7	52.7	47.8	45.7	41.1
Main Emissions Indicators						
GHG total emissions [index 1990=100]	98.1%	105.4%	73.4%	66.6%	63.6%	57.2%
Total GHG per capita [t CO_2 eq./capita]	13.6	14.1	9.6	8.6	8.2	7.4

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

5.28 Sweden

Mtoe, unless otherwise stated	2000	2010	2019	2021	2022	2023
Production	**30.0**	**31.8**	**37.0**	**35.7**	**35.7**	**34.3**
Solid fossil fuels	0.0	0.0	0.0	0.0	0.0	0.0
of which hard coal	0.0	0.0	0.0	0.0	0.0	0.0
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	0.0	0.0	0.0	0.0	0.0	0.0
of which crude oil	0.0	0.0	0.0	0.0	0.0	0.0
Natural gas	0.0	0.0	0.0	0.0	0.0	0.0
Nuclear	14.8	14.5	16.2	12.3	12.4	11.6
Renewables and biofuels	14.7	16.5	19.9	22.5	22.5	22.0
Wastes, Non-Renewable	0.3	0.5	0.7	0.8	0.8	0.7
Net Imports	**19.3**	**19.9**	**15.6**	**10.6**	**12.9**	**12.4**
Solid fossil fuels	2.3	2.4	1.9	1.6	1.6	1.4
of which hard coal	2.1	2.3	1.6	1.5	1.3	1.4
Oil and petroleum products	15.7	15.5	13.5	8.6	12.0	11.1
of which crude oil and NGL	20.8	20.0	16.5	18.1	19.0	17.5
Natural gas	0.8	1.5	1.0	1.0	0.6	0.8
Renewables and biofuels	0.0	0.2	1.4	1.4	1.4	1.4
Electricity	0.4	0.2	-2.2	-2.2	-2.9	-2.4
Gross inland consumption	**47.7**	**50.5**	**49.7**	**47.2**	**45.8**	**45.1**
Solid fossil fuels	2.2	2.1	1.9	1.7	1.5	1.5
of which hard coal	2.0	2.0	1.7	1.4	1.4	1.4
of which brown coal	0.0	0.0	0.0	0.0	0.0	0.0
Oil and petroleum products	14.2	14.6	10.6	9.3	9.4	9.3
of which crude and NGL	20.7	20.2	16.5	18.6	18.5	17.7
Natural gas	0.8	1.5	0.9	1.0	0.6	0.7
Nuclear	14.8	14.5	16.2	12.3	12.4	11.6
Renewables and biofuels	14.7	16.8	21.4	24.0	23.8	23.6
Electricity	0.4	0.2	-2.2	-2.2	-2.9	-2.4
Waste, non-renewable	0.3	0.5	0.8	1.0	1.0	0.9
Available for final consumption	**34.9**	**35.1**	**33.6**	**32.7**	**34.3**	**32.4**
Final non-energy consumption	**1.7**	**2.1**	**2.3**	**1.7**	**2.1**	**1.5**
Final energy consumption	**33.7**	**32.5**	**31.3**	**31.0**	**32.2**	**31.1**
by Fuel/Product						
Solid fossil fuels	0.5	0.4	0.3	0.3	0.3	0.3
Oil and petroleum products	12.6	9.5	7.0	6.6	6.0	6.0
Natural gas	0.4	0.6	0.5	0.5	0.4	0.3
Renewables and biofuels	5.3	5.4	8.2	8.8	9.2	9.4
Solid biofuels and renewable waste	5.3	5.0	5.1	5.5	5.5	5.8
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	0.4	1.6	1.8	2.0	1.9
Biogases	0.0	0.1	0.1	0.1	0.1	0.1
Waste, non-renewable	0.0	0.0	0.0	0.1	0.1	0.1
Electricity	11.1	11.3	10.7	11.0	10.5	10.3
Heat	3.6	5.1	4.3	4.7	4.4	4.6
by Sector						
Industry	13.7	11.6	10.9	11.1	11.0	11.3
Transport	7.5	7.5	7.0	6.8	6.6	6.5
Residential	7.3	8.3	7.4	7.9	7.1	7.1
Services	4.4	4.3	4.0	4.3	4.2	4.2
Agriculture and Fishing	0.8	0.7	0.6	0.6	0.7	0.6
Others	0.0	0.0	1.4	1.5	1.5	1.5

Methodology and Notes: see appendices

	2000	2010	2019	2021	2022	2023
Installed Electricity Capacity [GW]	**33.7**	**36.5**	**42.8**	**44.8**	**47.8**	**51.4**
Combustible Fuels	7.5	8.7	8.3	7.7	7.8	7.7
Nuclear	9.5	9.0	8.6	6.9	6.9	7.0
Hydro	16.5	16.7	16.5	16.4	16.4	16.4
Wind	0.2	2.0	8.7	12.1	14.3	16.2
Solar	0.0	0.0	0.7	1.6	2.4	4.0
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0
Tide, Wave and Ocean	0.0	0.0	0.0	0.0	0.0	0.0
Gross Electricity Generation, by Fuel [TWh]	**145.3**	**148.5**	**168.4**	**171.8**	**173.2**	**166.1**
Solid fossil fuels, peat and products, oil shale	1.7	1.8	0.4	0.1	0.1	0.1
Oil and petroleum products	1.5	1.8	0.2	0.3	0.5	0.2
Natural gas	1.3	3.8	1.1	0.9	0.7	0.7
Nuclear	57.3	57.8	66.1	53.0	51.9	48.5
Renewables and biofuels	83.1	82.1	98.9	115.7	118.2	115.2
Wastes non-RES	0.2	1.2	1.7	1.7	1.7	1.3
Cogeneration Heat and Power						
CHP Electrical Capacity [GW]			3.3	2.7	3.3	3.6
CHP Electricity Generation [TWh]			9.2	8.9	12.3	11.3
CHP in Total Electricity Generation [%]			5.5	5.2	7.1	6.8
CHP Heat Production [PJ]			94.0	94.5	227.2	245.3
Transport Fuels [ktoe]						
Final consumption petroleum products	9906	8578	6564	6298	5664	5666
of which LPG	397	463	364	343	379	395
of which motor gasoline	4208	3422	2170	2036	1893	1842
of which Gas/Diesel oil	5302	4692	4030	3919	3393	3429
Final consumption biofuels	0	383	1564	1754	1975	1863
pure and blended biogasoline	0	203	101	126	163	203
pure and blended biodiesel	0	179	1463	1541	1768	1598
Main Energy Indicators						
Primary energy consumption 2020-2030 [Mtoe]	46.0	48.3	45.8	43.3	42.6	41.4
Final energy consumption 2020-2030 [Mtoe]	34.4	33.2	30.8	31.0	30.2	30.3
Primary Energy Intensity 2020-2030 [toe/M€'15]	138	119	93	85	82	80
Energy Intensity (GAE/GDP2015) [toe/M€'15	143	124	101	92	88	87
Energy per Capita (GIC/pop) [kgoe/capita]	5384	5402	4858	4543	4385	4287
Final Electricity per Capita [KWh/capita]	16393	15903	16465	16552	16567	15786
Import Dependency [%]	**40.4%**	**39.5%**	**31.3%**	**22.4%**	**28.2%**	**27.5%**
of Solid fossil fuels	105.4%	113.7%	103.2%	94.2%	104.7%	96.4%
of Hard Coal	107.7%	115.2%	98.1%	101.8%	95.3%	99.9%
of Oil and petroleum products	110.4%	106.3%	127.5%	92.1%	127.7%	119.0%
of Crude and NGL	100.6%	99.0%	100.0%	97.4%	102.6%	98.6%
of Natural Gas	100.0%	100.0%	101.8%	101.7%	102.5%	107.4%
Renewable in gross final energy [%]						
Overall Renewable share (with aviation cap)		46.10%	55.79%	62.53%	66.29%	66.39%
RE-T - Renewable energy in Transport [%]		9.63%	30.31%	28.68%	28.84%	33.65%
RES-E - Renewable Electricity Generation [%]		55.77%	71.23%	75.76%	83.37%	87.55%
RES-H&C - Renewable Heating and Cooling [%]		57.07%	64.39%	68.53%	69.81%	67.07%
Greenhouse gas emissions [Mt CO_2]						
CO_2 emissions - National total*	54.9	53.0	40.8	38.6	35.1	35.5
GHG Greenhouse gases (CO_2, N_2O*	68.1	64.1	50.2	47.7	44.2	44.4
Main Emissions Indicators						
GHG total emissions [index 1990=100]	95.7%	90.1%	70.5%	67.0%	62.1%	62.3%
Total GHG per capita [t CO_2 eq./capita]	7.7	6.9	4.9	4.6	4.2	4.2

** total emissions without LULUCF, with ind. CO_2, including international aviation, excl. international maritime transport*

Appendices

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Appendices – Methodology

Appendix 1
Country Nomenclature

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

*Latin translitteration

Interinstitutional Style Guide (ISG): http://publications.europa.eu/code/
Eurostat Website: http://ec.europa.eu/eurostat/
ISO 3166 Country Codes Maintenance Agency: https://www.iso.org/iso-3166-country-codes.html

Appendix 2
Main Energy Flows in Eurostat Energy Balances-EN

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

Source: Energy Balance Guide: https://ec.europa.eu/eurostat/statistics-explained/index.php?oldid=464172
https://ec.europa.eu/eurostat/web/energy/methodology

Appendix 3
Main Energy Products in Eurostat Energy Balances- EN

ESTAT Energy Database - EN	
Code	**Dissemination label**
TOTAL	Total
C0000X0350-0370	Solid fossil fuels
C0110	Anthracite
C0121	Coking coal
C0129	Other bituminous coal
C0210	Sub-bituminous coal
C0220	Lignite
C0320	Patent fuels
C0311	Coke oven coke
C0312	Gas coke
C0340	Coal tar
C0330	Brown coal briquettes
C0350-0370	Manufactured gases
C0360	Gas works gas
C0350	Coke oven gas
C0371	Blast furnace gas
C0379	Other recovered gases
P1000	Peat and peat products
P1100	Peat
P1200	Peat products
S2000	Oil shale and oil sands
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

ESTAT Energy Database - EN	
Code	**Dissemination label**
04699	Other oil products n.e.c.
G3000	Natural gas
RA000	Renewables and biofuels
RA100	Hydro power
RA500	Tide, wave and ocean
RA300	Wind power
RA420	Solar photovoltaic
RA410	Solar thermal
RA200	Geothermal
R5110-5150_W6000RI	Primary solid biofuels
R5160	Charcoal
R5300	Biogases
W6210	Renewable municipal waste
R5210P	Pure biogasoline
R5210B	Blended biogasoline
R5220P	Pure biodiesels
R5220B	Blended biodiesels
R5230P	Pure bio jet kerosene
R5230B	Blended bio jet kerosene
R5290	Other liquid biofuels
RA600	Ambient heat (heat pumps)
W6100_6220	Non-renewable waste
W6100	Industrial waste (non-renewable)
W6220	Non-renewable municipal waste
N900H	Nuclear heat
H8000	Heat
E7000	Electricity

Source: Energy Balance Guide
https://ec.europa.eu/eurostat/statistics-explained/index.php?oldid=464172
https://ec.europa.eu/eurostat/web/energy/methodology

Appendix 4
Symbols and Abbreviations

%	per cent
€	euro
0	zero or figure less than half of the unit represented
bbl	barrel
bcm	billion cubic meters
Blank	data not available
CHP	combined heat & power
CO_2	carbon dioxide
DG	Directorate-General of the European Commission
EEA	European Environment Agency
equiv.	equivalent
ESTAT	Eurostat, Statistical Office of the European Union
GCV	gross calorific value
GDP	gross domestic product
GHG	greenhouse gas
GJ	gigajoule
IEA	International Energy Agency
k	thousand, kilo
kgoe	kilogram of oil equivalent
ktoe	kiloton of oil equivalent
kton	kiloton
kWh	kilowatt hour
LPG	liquefied petroleum gas
M€ '2015	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

FROM : \ TO:	TJ	Mtoe	GWh
	multiply by		
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

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

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

Appendix 6
Average calorific values*

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

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

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

Glossary

Appendix 7
Glossary

In parenthesis are the codes for energy products and energy flows and indicators from the EUROSTAT Energy database/EUROBASE as of June 2019. More extensive explanations is available on Eurostat website at: https://ec.europa.eu/eurostat/statistics-explained/index.php?oldid=464172 and https://ec.europa.eu/eurostat/web/energy/methodology

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

ANNUAL INSTALLED CAPACITY

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

AUTOPRODUCER: ELECTRICITY AND HEAT GENERATION

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

AVAILABLE FOR FINAL CONSUMPTION (ENERGY)

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

BIOFUELS

Biofuels are fuels derived directly or indirectly from biomass. Biofuels used for non-energy purposes are excluded from the scope of energy statistics. Biofuels can be split up into three categories: Solid biofuels, liquid biofuels and biogases. Liquid or gaseous fuels used primarily for transport,

produced from biomass and renewable waste. The liquid biofuels groups pure biogasoline (R5210P), blended biogasoline (R5210B), pure biodiesel (R5220P), blended biodiesel (R5220B), pure bio jet kerosene (R5230P), blended bio jet kerosene (R5230B) and other liquid biofuels (R5290).

BIOFUELS AND RES WASTE

Biofuels and RES municipal wastes (W6210), covers organic, non-fossil material of biological origin, which may be used for heat production or electricity generation. They comprise primary solid biofuels such as wood and wood waste (R5110-5150_W6000RI), biogases (R5300), renewable municipal waste (W6210), charcoal (R5160) and biofuels such as: pure gasoline (R5210P), blended gasoline (R5210B), pure biodiesel (R5220P), blended biodiesel (R5220B), pure bio jet kerosene (R5230P), blended bio jet kerosene (R5230B) and other liquid biofuels (R5290).
The non-renewable part of municipal waste (W6220) and the industrial waste (W6100) are included in non-renewable waste (W6100_6220).

CAPACITY FACTOR - ANNUAL AVERAGE

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

CHP - COMBINED HEAT AND POWER

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

CONVENTIONAL THERMAL POWER

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

CUMULATIVE INSTALLED CAPACITY

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

ELECTRICITY MIX

The electricity mix is the proportion of different sources in electricity production. While energy mix is measured at gross inland consumption level,

electricity mix is measured at energy transformation into electricity level (i.e. in gross electricity generation).

ENERGY AVAILABLE FOR FINAL CONSUMPTION

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

ENERGY IMPORT DEPENDENCY

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

ENERGY INTENSITY

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

ENERGY MIX

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

ENERGY SECTOR BROAD DEFINITION

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

ENERGY SECTOR NARROW DEFINITION

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

EUROBASE

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

FINAL ENERGY CONSUMPTION (FEC):

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

[FC_OTH_CP_E], agriculture & forestry [FC_OTH_AF_E], fishing [FC_OTH_FISH_E] and other unspecified [FC_OTH_NSP_E].

FINAL ENERGY CONSUMPTION 2020-2030

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

FINAL ENERGY CONSUMPTION – TRANSPORT

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

FINAL NON-ENERGY CONSUMPTION

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

GDP - GROSS DOMESTIC PRODUCT

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

GDP AT CONSTANT MARKET PRICES

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

GHG – GREENHOUSE GAS

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

GHG INTENSITY OF THE ENERGY CONSUMPTION

GHG Intensity of the Energy Consumption [kg CO_2 eq./toe] represents the average emission rate of greenhouse gas (GHG) emissions from energy related activities of an economy relative to its gross inland consumption.

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 is about 1.5 million people every quarter.

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

LONG SCALE – SHORT SCALE

The long and short scales are two of several different large-number naming systems used for integer powers of ten.
Many countries, including most in continental Europe, use the long scale whereas most English-speaking countries and Arabic-speaking countries use the short scale.
In the long scale every new term greater than a million is a million times the previous term**.** Thus, billion means a million millions, trillion means a million billions, and so on
In the short scale every new term greater than million is 1 000 times the previous term. Thus, billion means a thousand millions, trillion means a thousand billions.

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

milliard, is used in several languages that use the long scale to represent a corresponding value to billions in short scale, i.e. 10^9.

MANUFACTURED GASES

Manufactured gases [C0350-0370] covers coke oven gas [4210], blast furnace gas [4220], gas work gas [4230], and other recovered gas [4240].

NACE

NACE is the acronym used to designate the various statistical classifications of economic activities developed since 1970 in the European Union. It provides the framework for collecting and presenting a large range of statistical data according to economic activity in the fields of economic statistics (e.g. production, employment, national accounts) and in other statistical domains.

NET CALORIFIC VALUE (NCV)

The net calorific value is the amount of heat released by a unit quantity of fuel, when it is burned completely with oxygen, and when the products

of combustion are returned to ambient temperature. This quantity does not include the heat of condensation of any water vapour contained in the fuel nor of the water vapour formed by the combustion of any hydrogen contained in the fuel.

NET 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 20202-2030] = [GIC 2020-2030] – Final non-energy consumption [FC_NE].

PRIMARY ENERGY INTENSITY 2020-2030

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

PRIMARY ENERGY PRODUCTION – INDIGENOUS PRODUCTION

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

PUMPING, PUMPED STORAGE

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

RENEWABLES AND BIOFUELS (RES):

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

SOLAR ENERGY

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

SBS

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

SOLID FOSSIL FUELS

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

TONNE OF OIL EQUIVALENT (TOE)

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

TOTAL ENERGY SUPPLY

Total energy supply [NRGSUP] is one of the most important aggregate of energy balance and represents the quantity of energy necessary to satisfy inland consumption (inland fuel deliveries) of the geographical entity under consideration.
Total energy supply is the sum of Primary production [PPRD], Recovered & recycled products [RCV_RCY], Imports [IMP] from which are subtracted: Exports [EXP], Stock changes [STK_CHG], International maritime bunkers [INTMARB] and international aviation [INTAVI].
Total Energy Supply is also equivalent to Gross Inland Consumption [GIC] minus International Aviation [INTAVI].

TOTAL PRIMARY ENERGY SUPPLY

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

TRANSFORMATION INPUT

Transformation input [TI_E] covers all inputs into the transformation plants destined to be converted into derived products. Transformation is only recorded when the energy products are physically or chemically modified to produce other energy products, electricity and/or heat. Quantities of fuels used for heating, operation of equipment and in general in support of the transformation are not included in Transformation input but in Energy sector [NRG_E].
Transformation Input is the sum of the inputs for electricity & heat generation plants [TI_EHG_E], coke ovens [TI_CO_E], blast furnaces [TI_BF_E], gas works [TI_GW_E], refineries & petrochemical industry [TI_RPI_E], patent fuel plants [TI_PF_E], BKB & PB plants [TI_BKBPB_E], coal liquefaction plants [TI_CL_E], for blended natural gas [TI_BNG_E], liquid biofuels blended [TI_LBB_E], charcoal production plants [TI_CPP_E], gas-TI-liquids plants [TI_GTL_E] and others not elsewhere specified [TI_NSP_E].

TRANSFORMATION OUTPUT

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

TRANSFORMATION LOSSES

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

TURNOVER

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

UNEMPLOYMENT RATE

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

Notes

Appendix 8
Notes

APPENDIX 8.1

1.1.1, 1.1.2 PAGES 10, 11

Energy production corresponds to the indigenous energy production (IEA methodology). It does not include production from other sources.
Asia aggregation does not include China data.

1.1.2, 1.1.4, 1.1.6, 1.1.8, PAGES 11, 13, 15 AND 17

Solid fuels, includes hard coal, lignite and peat, as well as derived fuels.
Petroleum and (petroleum) sub-products comprises crude oil, NGL, feedstock, additives as well as other hydrocarbons.
RES (renewables) is equal to the sum of hydro, geothermal, solar PV, solar thermal, tide, wind, municipal waste, primary solid biofuels, biogases, bio gasoline, biodiesel, other liquid biofuels, non-specified biofuels and charcoal energy. Industrial waste not included.

1.1.3, 1.1.4, PAGES 12, 13

Total Energy Supply according to EUROSTAT methodology (see glossary) corresponds to the Total Primary Energy Supply (see glossary TPES), of the IEA methodology.
Asia aggregation does not include China data.

1.1.5, 1.1.6, PAGES 14, 15

Final energy consumption covers energy supplied to the final consumer's door for all energy uses.
Asia aggregation does not include China data.

1.1.8, PAGE 17

It is the total heat produced, including losses in the installations/network heat exchanges. However only autoproducers heat sold to third parties is here included. Auto-producers heat, used by the undertaking for their own processes, is excluded.

1.1.10, PAGE 19

CO_2 Intensity refers to CO_2 emissions activity intensity, measured by its energy gross inland consumption.

1.3.1, PAGE 27

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

APPENDIX 8.2

2.1.1, PAGES 37-39

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

2.1.2, PAGES 40-42

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

2.1.3, PAGE 43

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

2.2.1, PAGES 49-53

Solid fossil fuels - See Glossary

2.2.2, PAGES 54-58

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

2.3, PAGES 71-77

See, glossary energy import dependency, appendix 12.
Please note that hard coal dependency is a part of the solid fuels dependency, natural gas, of the gases dependency, and crude and NGL of the total petroleum and petroleum sub-products dependency. The total import dependency covers all fuels and it is not a simple average of the upper mentioned products.

2.5.1, PAGE 84

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

2.5.2, PAGE 85

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

2.5.3, PAGES 86-89

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

2.6.1, PAGES 90-92

Installed capacity represents the maximum active power that can be supplied, continuously, with all systems running.
Please note that combustible fuels include not only fossil fuels, as well as biomass and wastes, that are later included, also, in the renewables installed capacity.

2.6.2, PAGES 93-97

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

2.7.1, PAGES 99-100

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

2.7.2-2.7.8, PAGES 101-108

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

2.7.3, 2.7.4, PAGES 103-104

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

2.7.8, PAGE 108

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

2.8, PAGES 110-112

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

2.9, PAGES 113-115

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

2.10, PAGES 116-118

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

2.11.1, PAGE 119

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

2.11.4, PAGE 122

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

2.13, PAGES 129-135

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

PETROLEUM PRODUCTS

Heating gasoil, low sulphur fuel oil, unleaded petrol and automotive diesel prices are supplied by the Member States to DG ENERGY as those being the most frequently encountered for the specific categories of sales. The prices are as of January 15th in each year.
The heating gasoil prices given are for deliveries of between 2000 and 5000 litres while those for low sulphur fuel oil are for monthly deliveries of less than 2000 tonnes or annual deliveries of less than 24000 tonnes.
The average pump prices are given for motor fuels.
The EU average prices are calculated by weighting the prices from each country by the corresponding final energy consumption.

ELECTRICITY AND GAS

The legal basis for the collection of industrial gas and electricity prices is defined by EC Directive 2008/92/EC. The collection of prices includes national average prices of the last 6 months reported by different consumer bands. All taxes are included in the current prices.
Consumption bands have been selected as the most representative for the exercise.

APPENDIX 8.3

3.1.1, PAGE 140

Energy activities sector in its broad and narrow definition as defined by EUROSTAT/NACE and UN/SIC nomenclatures (sector D35 according to NACE codes).

3.2, PAGES 141-152

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

3.3, PAGES 153-156

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

3.4, PAGE 157

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

APPENDIX 8.4

4.1.1, PAGES 164-168

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

4.1.2 PAGES 169-173

Structure of emissions is similar to the GHG emissions.

APPENDIX 8.5

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

Notes

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