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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: from the European Commission's services, from international organisations such as the European Environment Agency and the International Energy Agency and also from the European Commission's estimates when other data is unavailable.

The publication is divided into five parts:

- Part 1. Energy overview at global and EU levels.
- Part 2. Main energy indicators, at EU and Member States levels.
- Part 3. Socio-economic indicators in the EU.
- Part 4. Impact of the energy sector on the environment.
- Part 5. Country profiles – Main energy indicators.

Indicators have been calculated using the methodology established by the European Commission – DG Energy. The appendices include a glossary and methodological notes.

This publication was produced using the most recently available data. Corrections and updates will be published at: <http://ec.europa.eu/energy/en/data-analysis/energy-statistical-pocketbook>

Recommended sources of data:

European Commission websites:

DG Energy

Pocketbook: <http://ec.europa.eu/energy/en/data-analysis/energy-statistical-pocketbook>

Country statistics: <http://ec.europa.eu/energy/en/data-analysis/country>

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

Eurostat

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

DG Economic and Financial Affairs

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

DG Climate Action

Climate strategies, targets and progress reports:

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

Websites of other organisations:

European Environment Agency

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

International Energy Agency

Statistics and balances: <http://www.iea.org/stats/index.asp>

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

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Overview

PART 1



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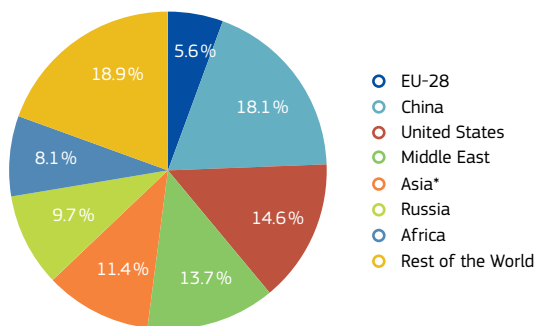
1.1 Energy in the World (Overview)

1.1.1 World Energy Production by Region

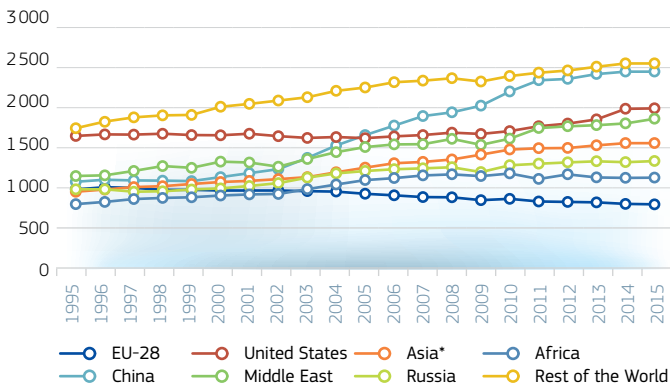
(Mtoe)

	1995	2000	2005	2010	2015	2015 (%)
EU-28	967	950	909	843	771	5.6%
China	1064	1124	1671	2236	2496	18.1%
United States	1659	1667	1631	1723	2019	14.6%
Middle East	1137	1324	1516	1624	1884	13.7%
Asia*	934	1062	1248	1484	1568	11.4%
Russia	968	978	1203	1279	1334	9.7%
Africa	773	885	1087	1173	1118	8.1%
Rest of the World	1760	2038	2287	2438	2601	18.9%
World	9263	10028	11554	12799	13790	100.0%

TOTAL 2015: 13790 Mtoe



Mtoe



* non OECD and OECD Asia, excluding China.

Source: IEA, August 2017

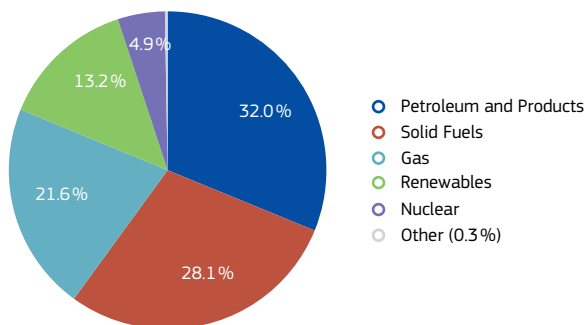
Methodology and Notes: See Appendix 13 – No 1

1.1.2 World Energy Production by Fuel

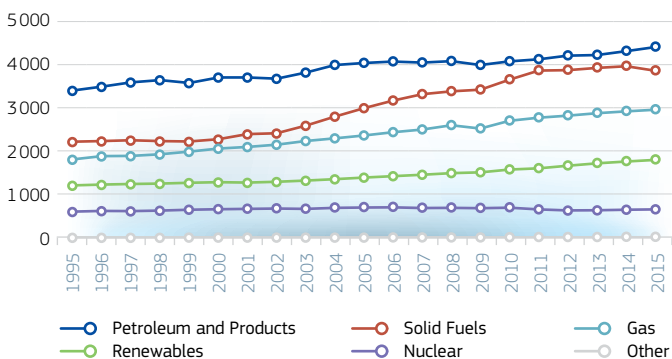
(Mtoe)

	1995	2000	2005	2010	2015	2015 (%)
Petroleum and Products	3 397	3 703	4 045	4 082	4 416	32.0%
Solid Fuels	2 220	2 278	2 997	3 663	3 872	28.1%
Gas	1 811	2 064	2 370	2 715	2 976	21.6%
Renewables	1 211	1 287	1 398	1 590	1 819	13.2%
Nuclear	608	676	722	719	671	4.9%
Other	17	21	21	31	37	0.3%
Total	9 263	10 028	11 554	12 799	13 790	100.0%

TOTAL 2015: 13 790 Mtoe



Mtoe



Source: IEA, August 2017

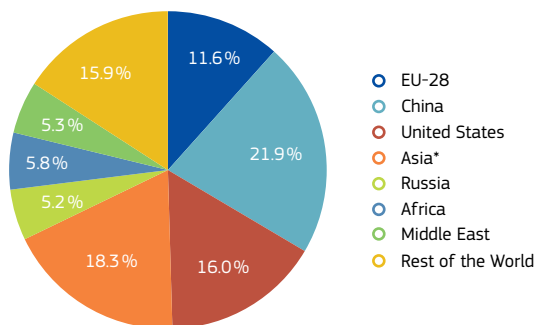
Methodology and Notes: See Appendix 13 – No 1

1.1.3 World Gross Inland Consumption by Region

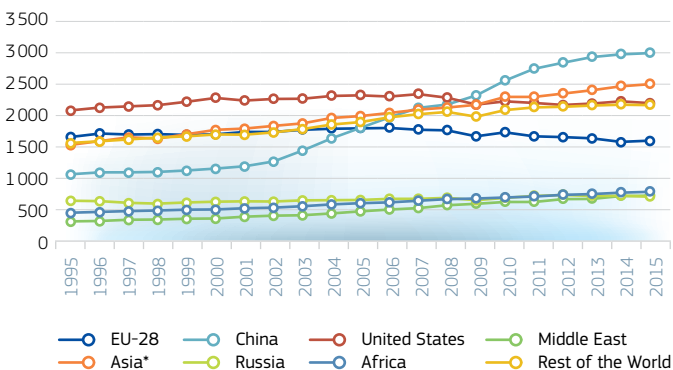
(Mtoe)

	1995	2000	2005	2010	2015	2015 (%)
EU-28	1649	1695	1794	1726	1586	11.6%
China	1055	1143	1794	2550	2987	21.9%
United States	2067	2273	2319	2215	2188	16.0%
Asia*	1521	1761	1983	2291	2495	18.3%
Russia	637	619	652	688	710	5.2%
Africa	444	496	600	695	788	5.8%
Middle East	307	354	469	624	729	5.3%
Rest of the World	1549	1686	1890	2083	2165	15.9%
World	9228	10028	11499	12873	13647	100.0%

TOTAL 2015: 13647 Mtoe



Mtoe



* non OECD and OECD Asia, excluding China.

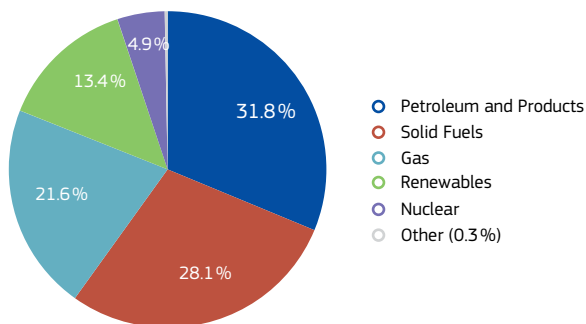
Source: IEA, August 2017

Methodology and Notes: See Appendix 13 – No 1

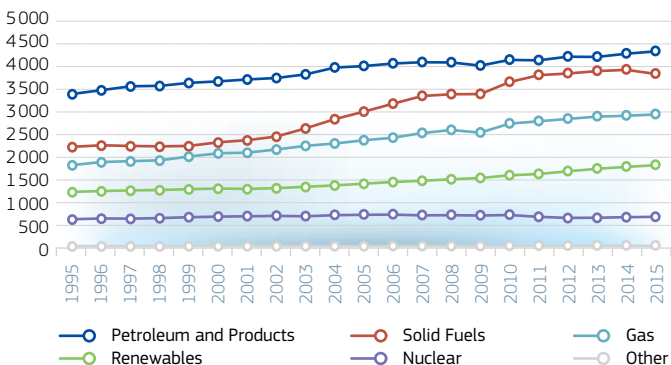
1.1.4 World Gross Inland Consumption by Fuel (Mtoe)

	1995	2000	2005	2010	2015	2015 (%)
Petroleum and Products	3376	3660	4005	4142	4334	31.8%
Solid Fuels	2208	2311	2993	3654	3836	28.1%
Gas	1807	2071	2360	2736	2944	21.6%
Renewables	1212	1288	1398	1591	1823	13.4%
Hydro*	213	225	252	296	334	2.5%
Geothermal*	39	52	54	63	74	0.5%
Solar/Wind/Other*	4	8	17	48	126	0.9%
Biofuels and Waste*	972	1023	1096	1213	1323	9.7%
Nuclear	608	676	722	719	671	4.9%
Other	16	21	21	31	40	0.3%
Total	9228	10028	11499	12873	13647	100.0%

TOTAL 2015: 13647 Mtoe



Mtoe



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

Source: IEA, August 2017

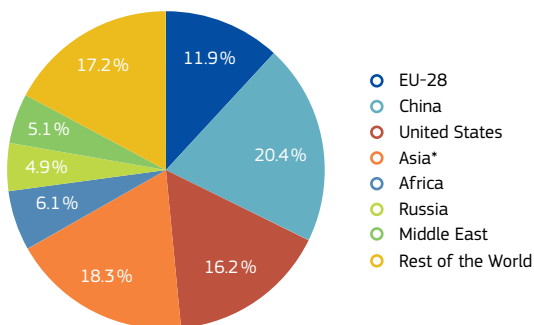
Methodology and Notes: See Appendix 13 – No 1

1.1.5 World Final Energy Consumption by Region

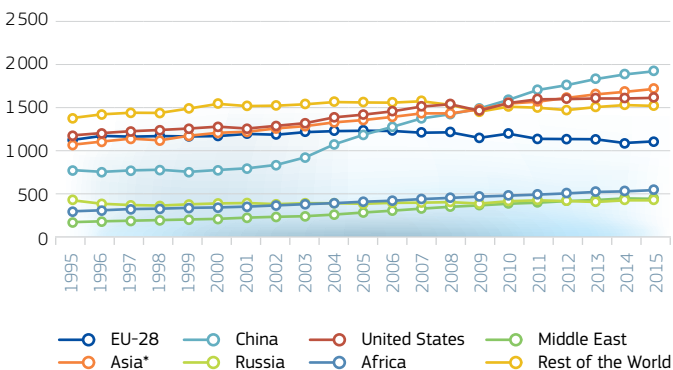
(Mtoe)

	1995	2000	2005	2010	2015	2015 (%)
EU-28	1 133	1 180	1 243	1 208	1 114	11.9%
China	788	791	1 192	1 587	1 915	20.4%
United States	1 378	1 546	1 563	1 512	1 520	16.2%
Asia*	1 076	1 211	1 357	1 548	1 716	18.3%
Africa	324	369	437	508	573	6.1%
Russia	458	418	412	447	457	4.9%
Middle East	202	241	313	416	475	5.1%
Rest of the World	1 180	1 281	1 420	1 554	1 614	17.2%
World	6 539	7 036	7 937	8 781	9 384	100.0%

TOTAL 2015: 9 384 Mtoe



Mtoe



* non OECD and OECD Asia, excluding China.

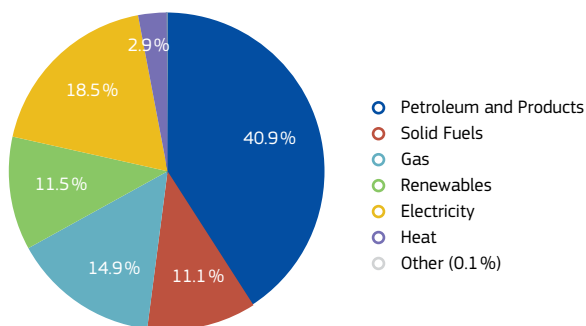
Source: IEA, August 2017

Methodology and Notes: See Appendix 13 – No 1

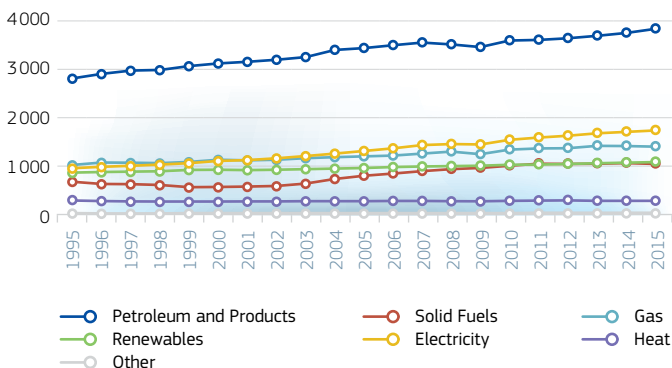
1.1.6 World Final Energy Consumption by Fuel (Mtoe)

	1995	2000	2005	2010	2015	2015 (%)
Petroleum and Products	2 797	3 115	3 438	3 597	3 840	40.9%
Solid Fuels	662	548	792	1 005	1 044	11.1%
Gas	1 006	1 117	1 190	1 337	1 401	14.9%
Renewables	848	910	950	1 021	1 082	11.5%
Electricity	936	1 092	1 302	1 540	1 737	18.5%
Heat	287	248	260	274	271	2.9%
Other	3	7	5	7	9	0.1%
Total	6 539	7 036	7 937	8 781	9 384	100.0%

TOTAL 2015: 9 384 Mtoe



Mtoe



Source: IEA, August 2017

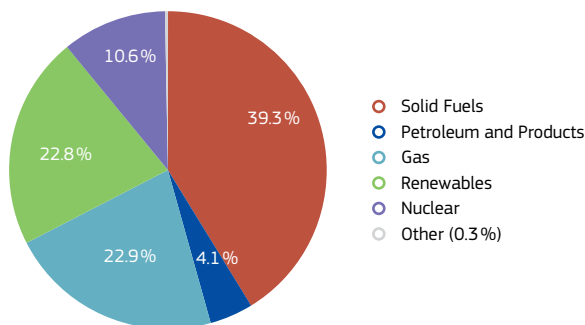
Methodology and Notes: See Appendix 13 – No 1

1.1.7 World Electricity Generation by Fuel

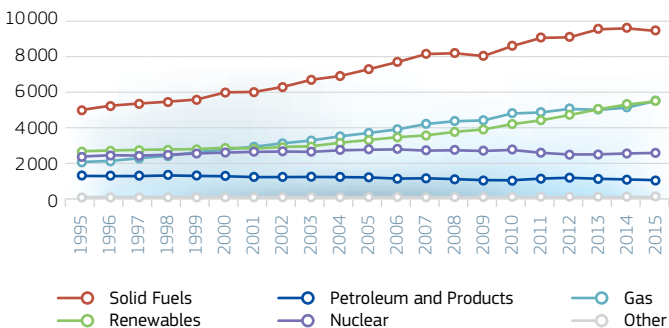
(TWh)

	1995	2000	2005	2010	2015	2015 (%)
Solid Fuels	4992	6005	7335	8664	9538	39.3%
Petroleum and Products	1279	1252	1178	982	990	4.1%
Gas	2022	2753	3702	4828	5543	22.9%
Renewables	2637	2837	3295	4209	5534	22.8%
Hydro*	2479	2619	2935	3443	3888	16.0%
Solar/Wind/Other*	10	35	120	387	1111	4.6%
Biofuels and Waste*	131	164	227	372	528	2.2%
Geothermal*	40	52	58	68	80	0.3%
Nuclear	2332	2591	2768	2756	2571	10.6%
Other	24	34	46	62	78	0.3%
Total	13285	15471	18324	21502	24255	100.0%

TOTAL 2015: 24255 TWh



TWh



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

Source: IEA, August 2017

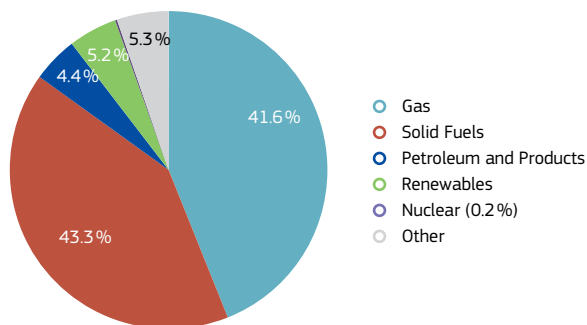
Methodology and Notes: See Appendix 13 – No 1

1.1.8 World Heat Generation by Fuel

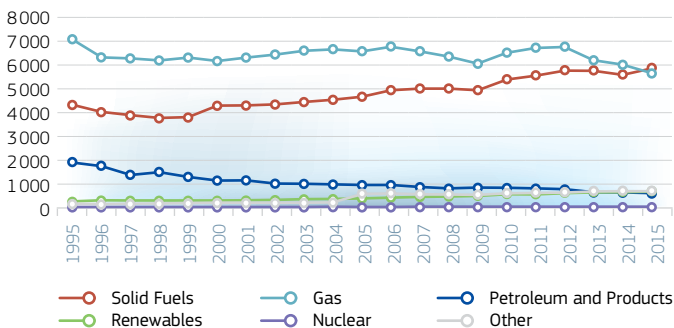
(PJ)

	1995	2000	2005	2010	2015	2015 (%)
Gas	7157	6232	6654	6588	5703	41.6%
Solid Fuels	4367	4332	4720	5456	5941	43.3%
Petroleum and Products	1939	1160	965	843	602	4.4%
Renewables	254	296	395	584	710	5.2%
Geothermal*	17	18	24	26	34	0.2%
Solar/Wind/Other*	9	12	386	347	367	2.7%
Biofuels and Waste*	345	414	530	781	940	6.9%
Nuclear	20	19	21	27	26	0.2%
Other	162	203	601	635	729	5.3%
Total	13900	12242	13355	14135	13711	100.0%

TOTAL 2015: 13711 PJ



PJ



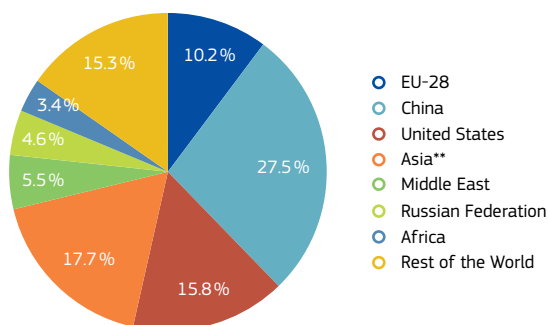
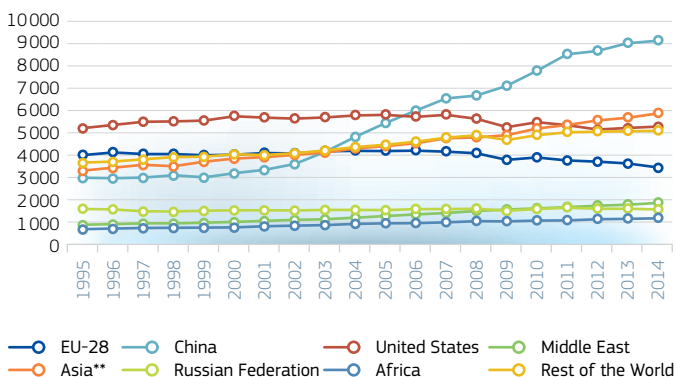
* Partial disaggregation of the Renewables group. Waste also includes non-RES wastes.

Source: IEA, August 2017

Methodology and Notes: See Appendix 13 – No 1

1.1.9 World CO₂ Emissions* by Region(Mio ton CO₂)

	1995	2000	2005	2010	2014	2014 (%)
EU-28	4012	4036	4205	3898	3425	10.2%
China	2951	3159	5459	7848	9222	27.5%
United States	5211	5790	5854	5496	5290	15.8%
Asia**	3275	3836	4412	5221	5925	17.7%
Middle East	816	951	1229	1595	1846	5.5%
Russian Federation	1562	1488	1497	1552	1532	4.6%
Africa	614	700	899	1041	1148	3.4%
Rest of the World	3639	4038	4480	4926	5124	15.3%
World	22080	23997	28034	31576	33511	100.0%

TOTAL 2014: 33 289 Mio ton CO₂Mio ton CO₂* Contains CO₂ emissions from fuel combustion and international maritime and aviation bunkers.

** non OECD and OECD Asia, excluding China.

Source: IEA, August 2017

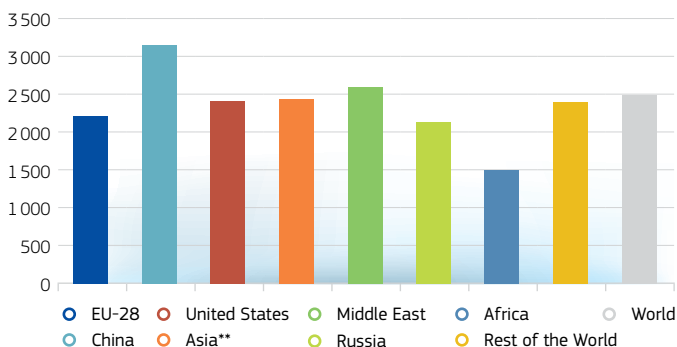
Methodology and Notes: See Appendix 13 – No 1

1.1.10 World CO₂ Intensity* by Region

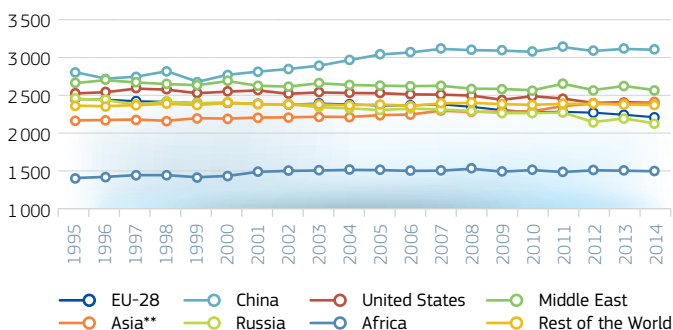
(Kg CO₂ per toe – Average)

	1995	2000	2005	2010	2013	2014
EU-28	2433	2381	2344	2258	2221	2186
China	2797	2763	3043	3078	3119	3107
United States	2521	2547	2525	2481	2395	2386
Asia**	2153	2178	2225	2279	2386	2406
Middle East	2661	2689	2624	2556	2616	2558
Russia	2454	2402	2297	2255	2180	2114
Africa	1383	1412	1499	1498	1489	1481
Rest of the World	2350	2395	2371	2364	2368	2363
World	2393	2393	2438	2453	2474	2463

WORLD AVERAGE 2014: 2463 Kg CO₂ per toe



Kg CO₂ per toe



* Per Unit of Gross Inland Consumption.

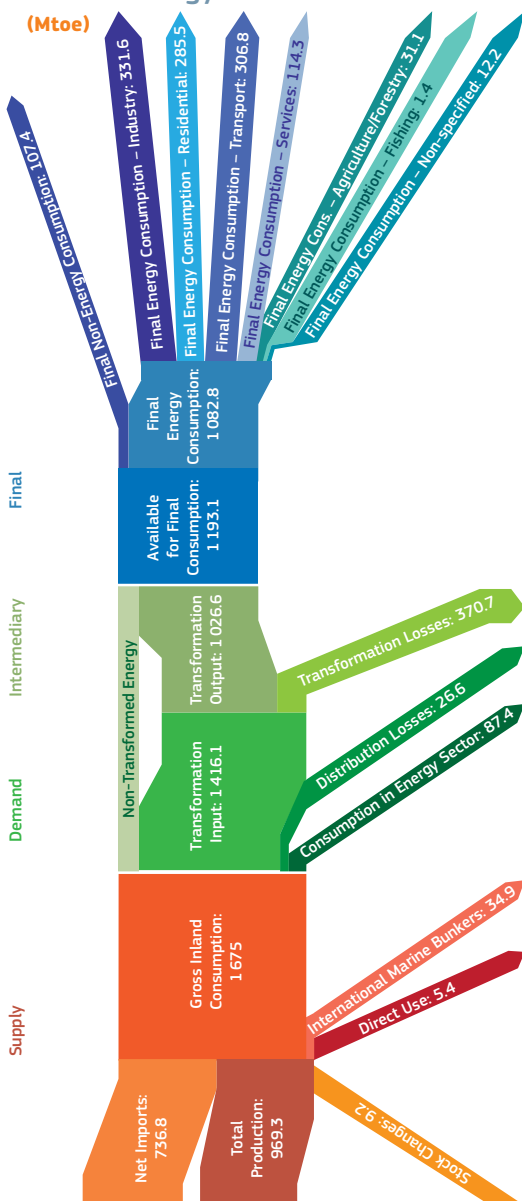
** non OECD and OECD Asia, excluding China.

Source: IEA, August 2017

Methodology and Notes: See Appendix 13 – No 1

1.2 Energy in the EU (Overview)

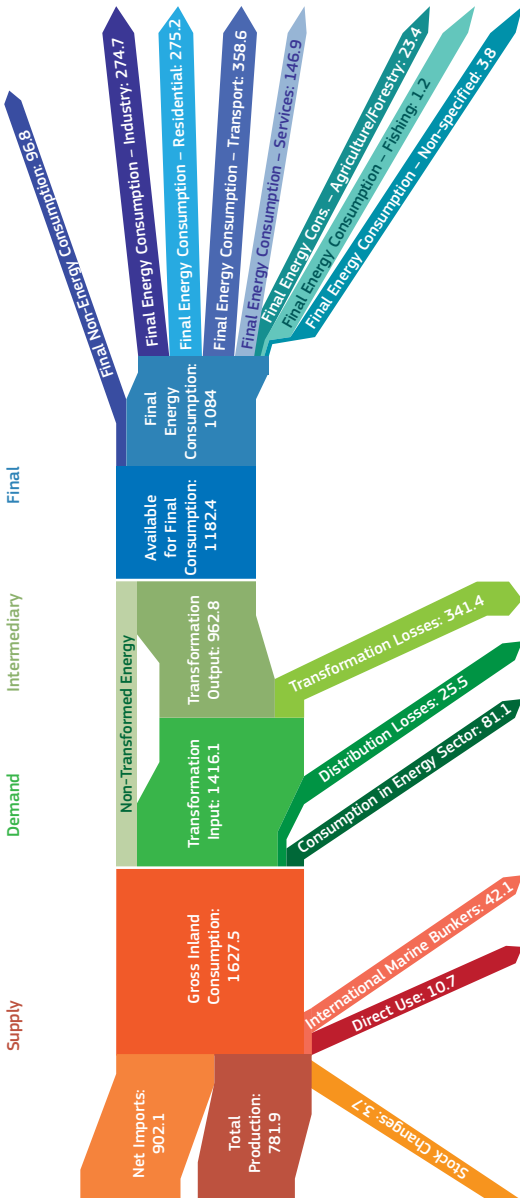
1.2.1 EU-28 Energy Flow – 1995



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 1

1.2.2 EU-28 Energy Flow – 2015 (Mtoe)



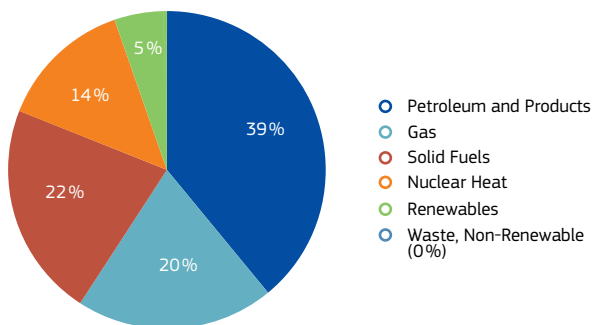
Source: Eurostat, May 2017
Methodology and Notes: See Appendix 13 – No 1

1.2.3 EU-28 Gross Inland Consumption

ENERGY MIX (%) – PRIMARY PRODUCTS ONLY

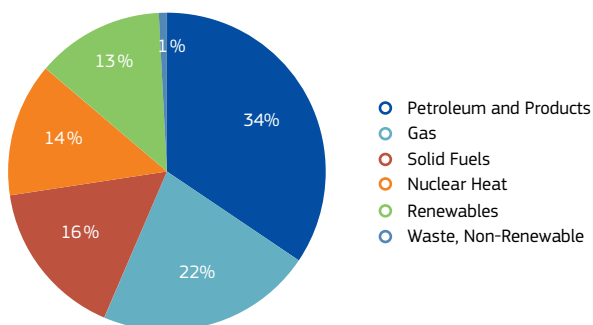
TOTAL PRIMARY 1995: 1 673.2 Mtoe

(Total Primary and Secondary 1995: 1 675 Mtoe)



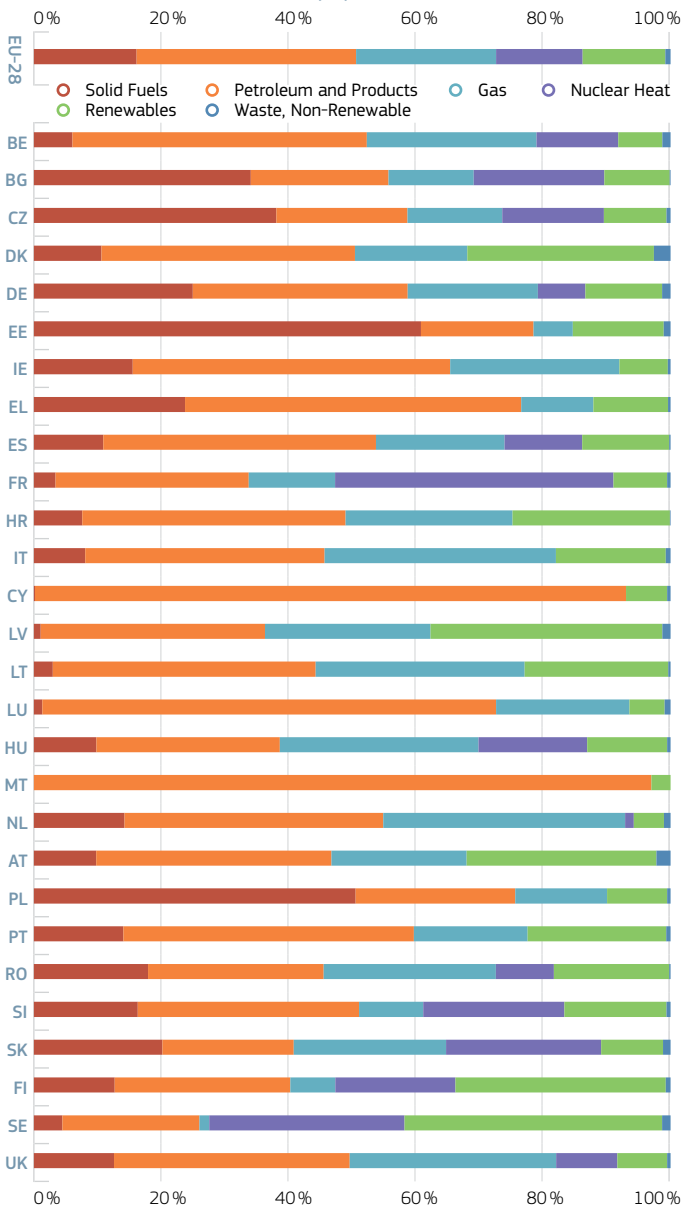
TOTAL PRIMARY 2015: 1 626.2 Mtoe

(Total Primary and Secondary 2015: 1 627.5 Mtoe)



1.2.3 EU-28 Gross Inland Consumption

ENERGY MIX* – 2015 (%)



* Primary Products Only.

Source: Eurostat, May 2017

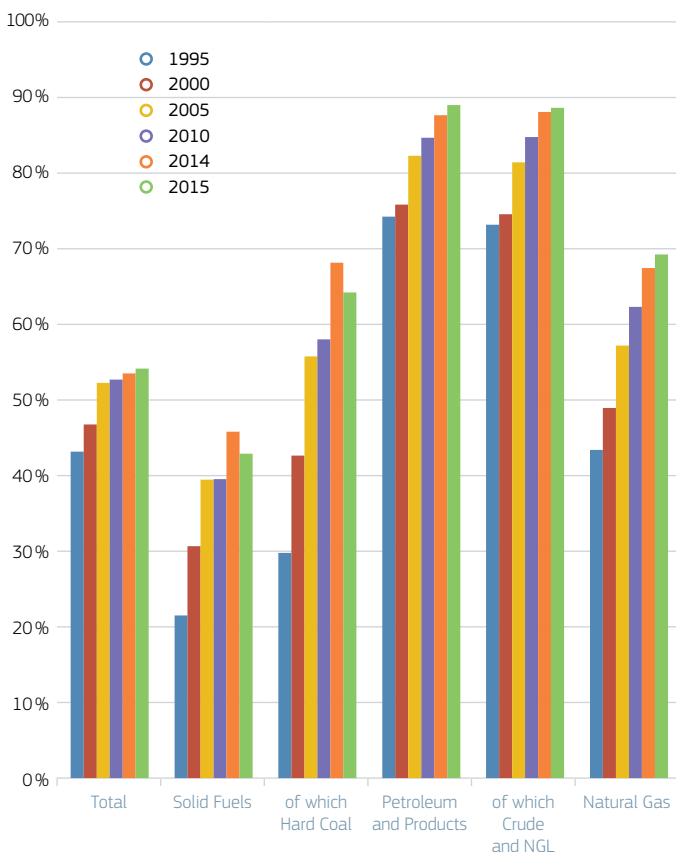
Methodology and Notes: See Appendix 13 – No 1

1.2.4 EU-28 Energy Import Dependency

BY FUEL – (%)

	1995	2000	2005	2010	2014	2015
Total	43.1	46.7	52.1	52.6	53.4	54.0
Solid Fuels	21.5	30.6	39.4	39.4	45.7	42.8
of which Hard Coal	29.7	42.6	55.7	57.9	68.0	64.1
Petroleum and Products	74.1	75.7	82.1	84.5	87.5	88.8
of which Crude and NGL	73.0	74.4	81.3	84.6	87.9	88.4
Natural Gas	43.3	48.8	57.1	62.2	67.3	69.1

1995-2015 (%)



Source: Eurostat, May 2017

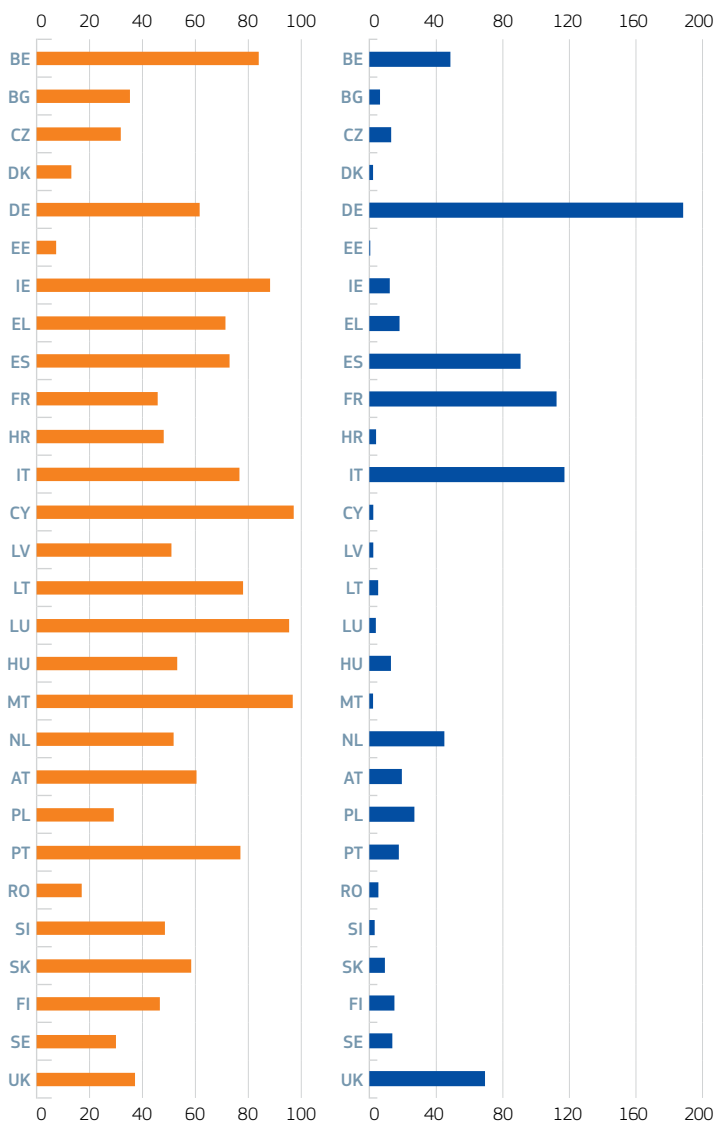
Methodology and Notes: [See Appendix 13 – No 1](#)

1.2.5 EU-28 Energy Import Dependency – Net Imports

2015

ENERGY IMPORT DEPENDENCY (%)

NET IMPORTS (Mtoe)



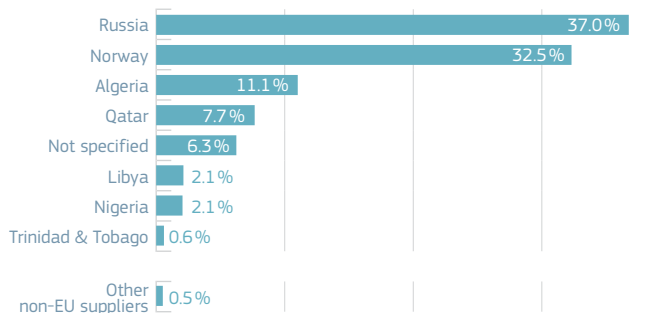
Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 1

1.2.6 EU-28 Imports by Country of Origin

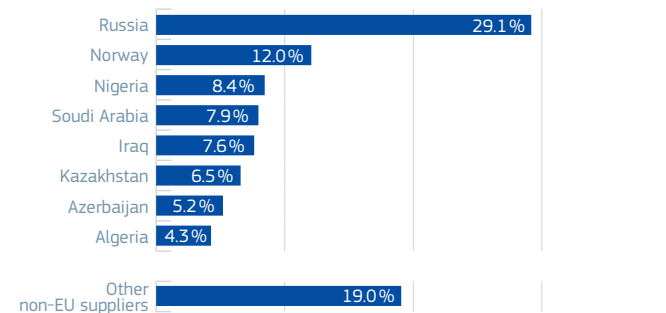
EU-28 IMPORTS* OF NATURAL GAS – 2015

Total non-EU = 12624717 TJ-GCV



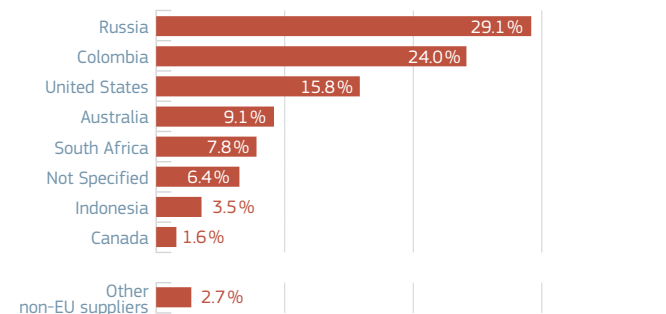
EU-28 IMPORTS* OF CRUDE OIL – 2015

Total non-EU = 526776 kton



EU-28 IMPORTS* OF SOLID FUELS – 2015

Total non-EU = 216921 kton



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

Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 1

1.3 EU 2020 Targets

1.3.1 Renewable Energy Targets*

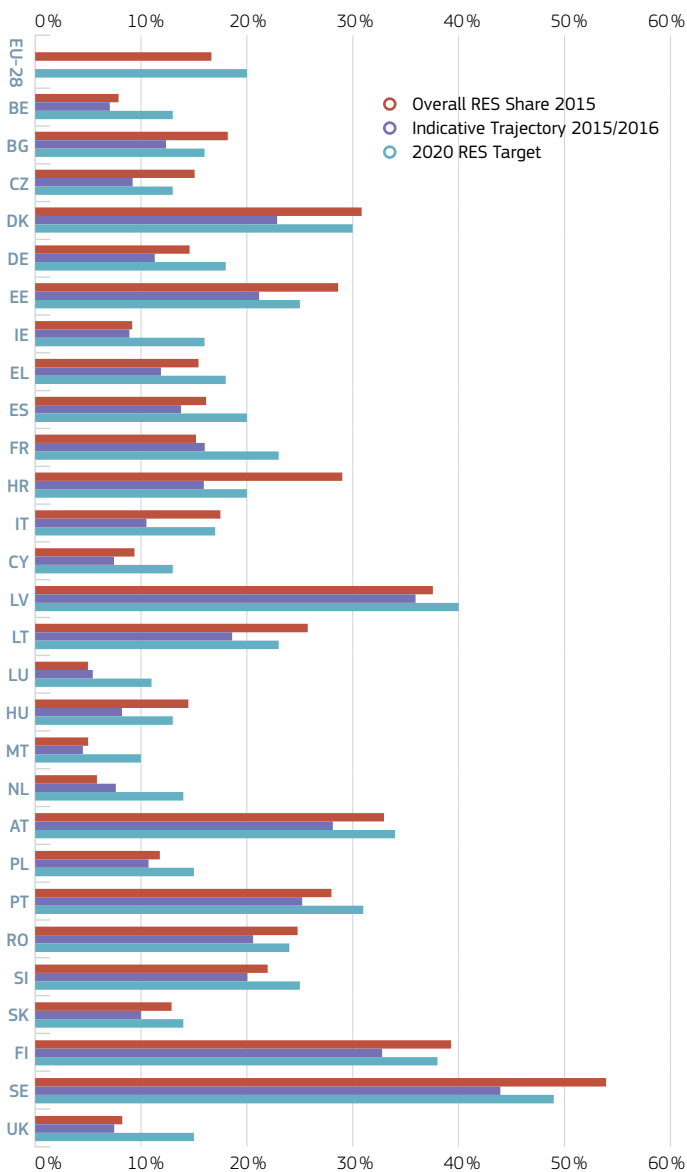
% EU-28	2015 Renewable Energy Shares				Indicative Trajectory 2015/2016	2020 RES Target
	RES Transport	RES Electricity	RES Heating and Cooling	Overall RES Share		
EU-28	6.7	28.8	18.6	16.7	n.a.	20.0
BE	3.8	15.4	7.6	7.9	7.1	13.0
BG	6.5	19.1	28.6	18.2	12.4	16.0
CZ	6.5	14.1	19.8	15.1	9.2	13.0
DK	6.7	51.3	39.6	30.8	22.9	30.0
DE	6.8	30.7	12.9	14.6	11.3	18.0
EE	0.4	15.1	49.6	28.6	21.2	25.0
IE	6.5	25.2	6.4	9.2	8.9	16.0
EL	1.4	22.1	25.9	15.4	11.9	18.0
ES	1.7	36.9	16.8	16.2	13.8	20.0
FR	8.5	18.8	19.8	15.2	16.0	23.0
HR	3.5	45.4	38.6	29.0	15.9	20.0
IT	6.4	33.5	19.2	17.5	10.5	17.0
CY	2.5	8.4	22.5	9.4	7.4	13.0
LV	3.9	52.2	51.8	37.6	35.9	40.0
LT	4.6	15.5	46.1	25.8	18.6	23.0
LU	6.5	6.2	6.9	5.0	5.4	11.0
HU	6.2	7.3	21.3	14.5	8.2	13.0
MT	4.7	4.2	14.1	5.0	4.5	10.0
NL	5.3	11.1	5.5	5.8	7.6	14.0
AT	11.4	70.3	32.0	33.0	28.1	34.0
PL	6.4	13.4	14.3	11.8	10.7	15.0
PT	7.4	52.6	33.4	28.0	25.2	31.0
RO	5.5	43.2	25.9	24.8	20.6	24.0
SI	2.2	32.7	34.1	22.0	20.1	25.0
SK	8.5	22.7	10.8	12.9	10.0	14.0
FI	22.0	32.5	52.8	39.3	32.8	38.0
SE	24.0	65.8	68.6	53.9	43.9	49.0
UK	4.4	22.4	5.5	8.2	7.5	15.0

* In % of the Gross Final Energy Consumption.

Source: Eurostat-SHARES, March 2017
Methodology and Notes: [See Appendix 13 – No 1](#)

1.3.1 Renewable Energy Targets*

OVERALL RENEWABLE ENERGY SHARE 2015 (%)

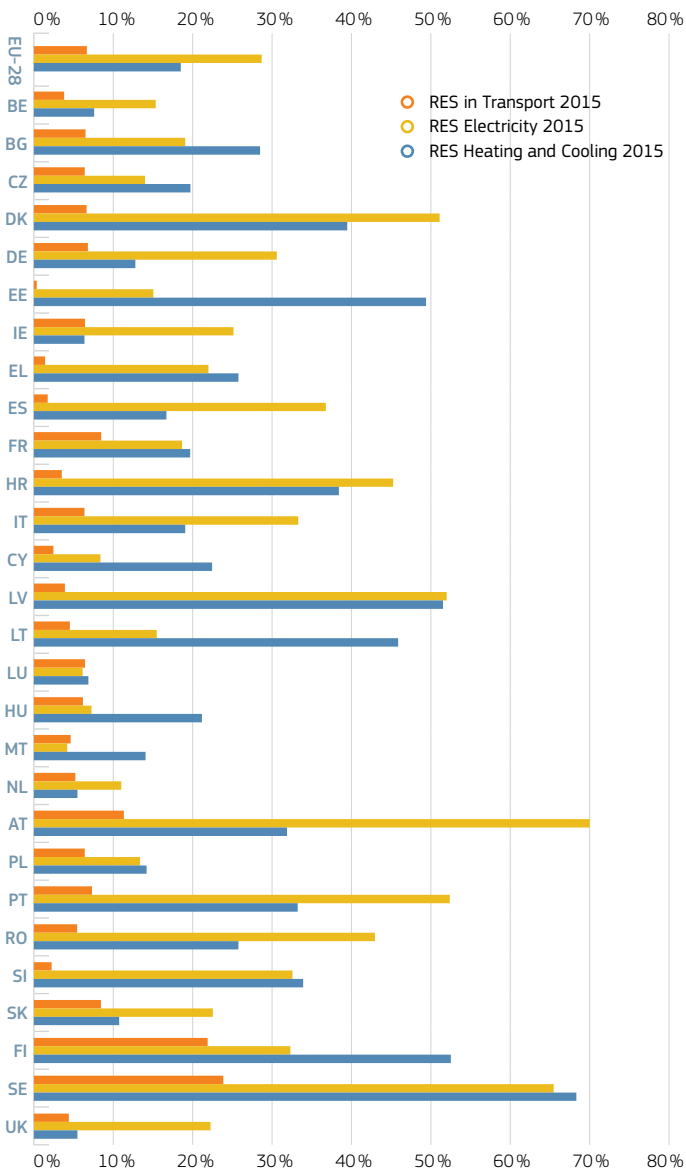


* In Gross Final Energy Consumption.

Source: Eurostat-SHARES, March 2017
Methodology and Notes: See Appendix 13 – No 1

1.3.2 Renewable Energy Shares*

RES SHARES IN HEATING AND COOLING, ELECTRICITY, AND TRANSPORT – 2015 (%)



* In Gross Final Energy Consumption.

Source: Eurostat-SHARES, March 2017
Methodology and Notes: See Appendix 13 – No 1

1.3.3 GHG Emissions Targets*

EMISSIONS COMPARED TO 1990

Index 100=1990	1990	1995	2000	2005	2010	2014	2015
EU-28	100.0	94.1	92.2	93.5	85.9	77.4	77.9
BE	100.0	105.7	103.6	99.9	91.8	79.4	81.8
BG	100.0	72.2	57.1	61.6	58.3	55.6	59.4
CZ	100.0	79.4	75.6	74.9	70.8	64.2	64.9
DK	100.0	111.1	101.4	95.6	91.0	74.2	70.7
DE	100.0	89.9	84.1	80.4	76.5	73.5	73.4
EE	100.0	50.0	42.9	47.7	52.5	52.3	44.7
IE	100.0	106.6	124.0	126.8	112.0	104.9	109.2
EL	100.0	105.9	122.1	131.6	114.5	96.8	93.4
ES	100.0	114.2	134.9	153.9	125.9	115.3	119.4
FR	100.0	99.8	101.9	102.4	95.0	84.6	85.4
HR	100.0	71.3	80.4	93.4	87.3	74.0	75.4
IT	100.0	102.4	107.0	112.3	98.1	82.5	84.5
CY	100.0	123.5	144.1	159.7	163.8	144.7	144.5
LV	100.0	48.5	39.6	43.5	47.6	43.7	44.1
LT	100.0	46.3	40.6	47.9	43.2	41.5	42.0
LU	100.0	81.0	80.8	108.8	102.6	91.4	88.9
HU	100.0	80.5	78.6	81.1	70.1	61.9	65.3
MT	100.0	111.5	116.6	126.5	128.0	125.7	99.2
NL	100.0	105.8	101.6	99.7	99.3	87.8	91.4
AT	100.0	101.8	103.2	118.7	109.3	98.3	101.6
PL	100.0	93.9	83.5	85.3	87.2	82.1	82.8
PT	100.0	117.3	138.3	144.9	118.0	110.2	117.9
RO	100.0	73.6	56.9	59.4	49.1	47.0	47.7
SI	100.0	100.7	102.8	110.3	105.5	89.5	90.7
SK	100.0	73.1	67.0	69.2	62.7	54.7	55.6
FI	100.0	100.6	98.3	98.0	106.9	84.5	79.6
SE	100.0	103.1	96.8	94.3	91.4	76.9	76.6
UK	100.0	94.7	91.4	89.6	79.6	68.7	66.4

* Emissions of the Kyoto basket of GHG.

Source: Eurostat, May 2017

Methodology and Notes: [See Appendix 13 – No 1](#)



Energy in the EU

PART 2



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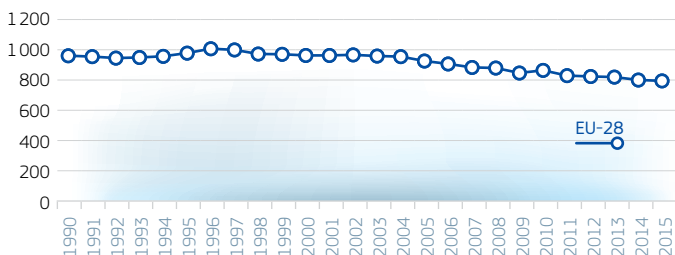
2.1 Energy Supply

2.1.1 Production*

ALL FUELS

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	969.3	952.1	914.6	851.6	788.3	781.9
Index 1995	100 %	98 %	94 %	88 %	81 %	81 %
BE	11.83	13.61	13.72	16.19	13.32	11.59
BG	10.27	9.87	10.70	10.53	11.31	12.13
CZ	32.69	30.81	33.17	32.03	29.81	29.05
DK	16.26	28.77	30.78	22.92	15.75	15.72
DE	145.26	135.60	139.11	133.04	124.69	124.23
EE	3.89	3.55	4.39	5.60	6.58	6.50
IE	4.10	2.16	1.65	1.88	2.12	2.00
EL	9.36	10.01	10.33	9.46	8.85	8.51
ES	31.43	31.49	30.09	34.53	35.10	33.60
FR	127.36	130.14	136.20	134.90	136.94	137.56
HR	5.00	4.26	4.75	5.16	4.43	4.47
IT	29.83	28.49	30.33	33.07	36.81	36.13
CY	0.04	0.04	0.05	0.09	0.12	0.13
LV	1.43	1.47	1.87	1.98	2.38	2.35
LT	3.78	3.28	3.96	1.33	1.50	1.61
LU	0.05	0.06	0.11	0.12	0.16	0.15
HU	13.90	11.60	10.37	11.92	11.09	11.28
MT	0.00	0.00	0.00	0.00	0.01	0.02
NL	70.07	61.95	66.86	74.42	62.99	51.99
AT	8.77	9.79	9.80	11.85	11.97	11.93
PL	99.38	79.59	78.59	67.39	67.91	68.33
PT	3.38	3.89	3.62	5.80	6.19	5.51
RO	32.31	28.47	28.22	27.82	26.66	26.74
SI	2.96	3.09	3.49	3.78	3.67	3.40
SK	5.06	6.39	6.68	6.35	6.72	6.74
FI	13.13	15.16	16.95	17.99	18.72	18.17
SE	31.38	30.05	34.26	32.76	34.31	33.81
UK	256.46	268.55	204.60	148.77	108.16	118.27

PRODUCTION – ALL FUELS – 1990-2015 (Mtoe)



* Primary Production and Receipt, Production from Other Sources and Recycled Products.

Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.1.1 Production*

BY FUEL

	2015					
	Nuclear	Solid Fuels	Renewables	Gases	Petroleum and Products	Wastes, Non-Renewable
Mtoe						
EU-28	221.2	145.4	205.0	107.9	89.3	13.0
Share (%)	28.3%	18.6%	26.2%	13.8%	11.4%	1.7%
BE	6.73	0.01	2.96	0.00	1.22	0.68
BG	3.98	5.87	2.03	0.09	0.14	0.03
CZ	6.95	17.06	4.28	0.21	0.28	0.28
DK	0.00	0.00	3.53	4.16	7.66	0.38
DE	23.68	43.00	38.89	6.34	8.08	4.25
EE	0.00	4.20	1.29	0.00	0.95	0.07
IE	0.00	0.76	0.98	0.11	0.09	0.06
EL	0.00	5.68	2.64	0.01	0.10	0.09
ES	14.78	1.25	16.87	0.05	0.40	0.25
FR	112.84	0.00	21.42	0.03	1.94	1.35
HR	0.00	0.00	2.23	1.47	0.76	0.01
IT	0.00	0.05	23.56	5.55	5.82	1.15
CY	0.00	0.00	0.12	0.00	0.01	0.00
LV	0.00	0.00	2.33	0.00	0.01	0.01
LT	0.00	0.02	1.47	0.00	0.10	0.02
LU	0.00	0.00	0.11	0.01	0.00	0.03
HU	4.10	1.52	3.24	1.37	0.94	0.11
MT	0.00	0.00	0.02	0.00	0.00	0.00
NL	1.05	0.00	4.81	39.26	6.17	0.69
AT	0.00	0.00	9.30	1.04	0.87	0.73
PL	0.00	53.87	8.64	3.68	1.62	0.52
PT	0.00	0.00	5.18	0.00	0.20	0.12
RO	3.00	4.71	5.94	8.79	4.24	0.07
SI	1.46	0.86	1.03	0.00	0.00	0.04
SK	3.95	0.50	1.59	0.08	0.43	0.19
FI	6.00	0.84	10.39	0.01	0.70	0.24
SE	14.54	0.11	18.37	0.01	0.16	0.62
UK	18.15	5.12	11.84	35.66	46.48	1.04

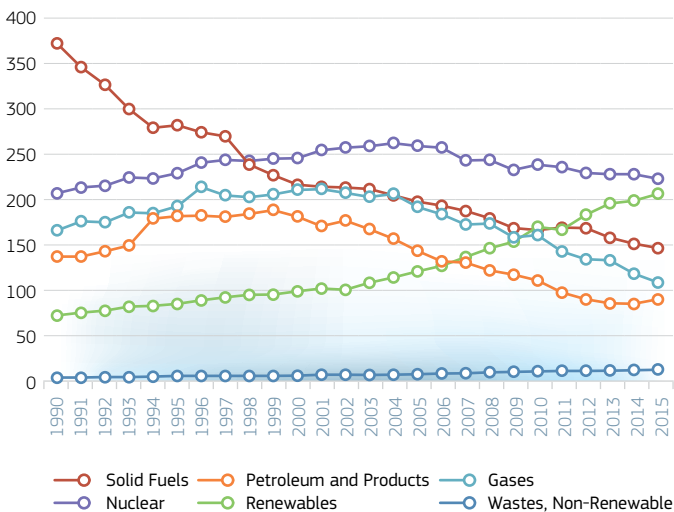
* Primary Production and Receipt, Production from Other Sources and Recycled Products.

Source: Eurostat, May 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

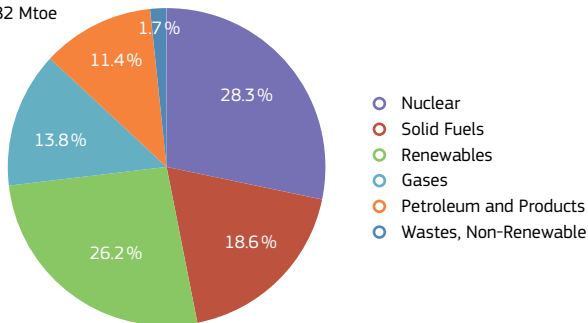
2.1.1 Production*

BY FUEL – EU-28 – 1990-2015 (Mtoe)



PRODUCTION – BY FUEL – EU-28 – 2015 (% OF TOTAL)

Total = 782 Mtoe



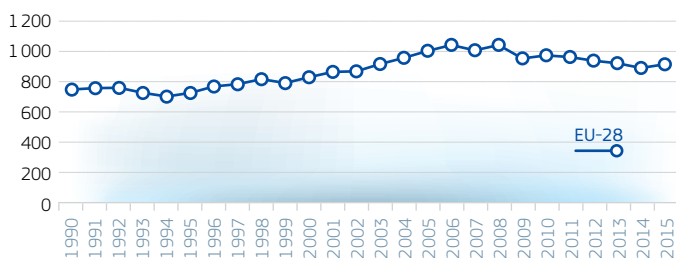
* Primary Production and Receipt, Production from Other Sources and Recycled Products.

2.1.2 Net Imports

ALL FUELS

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	736.76	827.10	980.19	953.73	881.24	902.12
Index 1995	100%	112%	133%	129%	120%	122%
BE	46.64	50.50	53.43	53.56	47.13	50.63
BG	12.83	8.54	9.28	7.08	6.16	6.59
CZ	8.60	9.41	12.64	11.59	12.79	13.54
DK	7.27	-7.37	-10.13	-3.25	2.15	2.30
DE	195.18	204.71	208.19	201.99	194.75	196.02
EE	1.81	1.63	1.50	0.87	0.62	0.48
IE	7.77	12.37	13.77	13.21	11.68	12.72
EL	18.29	22.15	23.50	21.72	17.36	18.81
ES	75.42	99.34	123.83	106.34	90.66	94.43
FR	117.06	134.08	143.96	131.95	115.33	116.84
HR	2.85	4.08	5.15	4.39	3.59	4.12
IT	134.50	152.07	160.37	149.46	116.12	121.83
CY	2.04	2.57	2.84	2.94	2.29	2.45
LV	3.36	2.36	3.10	2.22	1.90	2.37
LT	5.54	4.25	5.03	5.67	5.23	5.48
LU	3.25	3.64	4.68	4.51	4.07	4.01
HU	12.55	13.96	17.42	15.00	14.12	13.45
MT	0.84	1.46	1.63	2.37	2.05	2.23
NL	17.32	34.67	37.58	29.91	29.60	46.79
AT	18.02	19.01	24.52	21.57	21.48	20.21
PL	-1.16	8.77	15.94	31.53	27.05	28.02
PT	18.02	22.07	24.85	18.59	16.15	18.30
RO	14.03	7.99	10.84	7.83	5.50	5.54
SI	3.09	3.41	3.86	3.58	2.99	3.23
SK	12.14	12.00	12.43	11.26	9.86	9.64
FI	15.91	18.22	18.95	17.84	17.06	15.66
SE	20.43	20.44	19.46	19.29	15.99	14.24
UK	-36.83	-39.22	31.61	60.74	87.58	72.19

NET IMPORTS – ALL FUELS – 1990-2015 (Mtoe)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.1.2 Net Imports

BY FUEL

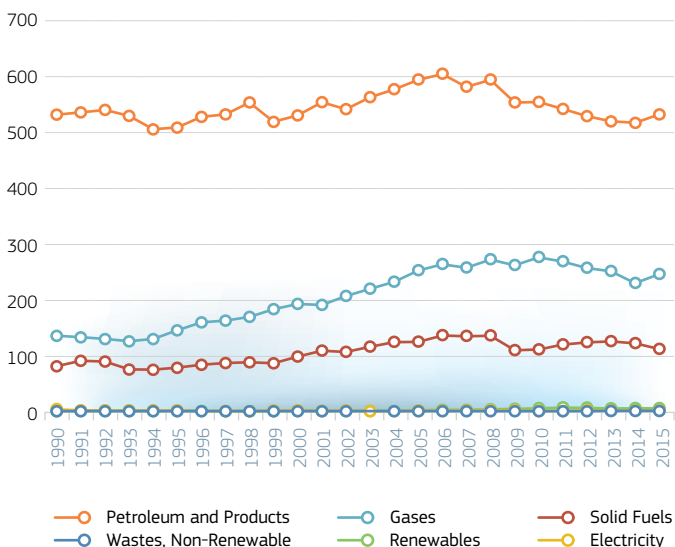
	2015					
	Net imports	Petroleum and Products	Gases	Solid Fuels	Renewables	Electricity
Mtoe						
EU-28	902.1	534.9	247.3	112.4	6.0	1.2
Share (%)	100%	59.3%	27.4%	12.5%	0.7%	0.1%
BE	50.63	31.18	13.87	3.10	0.68	1.81
BG	6.59	4.25	2.52	0.74	-0.02	-0.91
CZ	13.54	8.75	6.16	-0.29	-0.01	-1.08
DK	2.30	0.42	-1.38	1.47	1.23	0.51
DE	196.02	105.86	58.68	36.17	-0.53	-4.15
EE	0.48	0.55	0.39	-0.01	-0.37	-0.08
IE	12.72	7.49	3.62	1.46	0.09	0.06
EL	18.81	15.02	2.67	0.16	0.13	0.83
ES	94.43	60.70	23.78	10.36	-0.40	-0.01
FR	116.84	78.65	34.59	8.69	0.43	-5.51
HR	4.12	2.62	0.56	0.62	-0.27	0.58
IT	121.83	52.83	50.00	12.32	2.69	3.99
CY	2.45	2.42	0.00	0.00	0.03	0.00
LV	2.37	1.79	1.08	0.04	-0.74	0.16
LT	5.48	2.69	2.06	0.16	-0.06	0.62
LU	4.01	2.62	0.77	0.05	0.09	0.48
HU	13.45	6.45	5.22	0.80	-0.22	1.18
MT	2.23	2.13	0.00	0.00	0.01	0.09
NL	46.79	44.17	-9.37	12.30	-1.18	0.75
AT	20.21	11.25	4.99	2.71	0.41	0.87
PL	28.02	23.35	9.95	-5.61	0.36	-0.03
PT	18.30	11.01	4.07	3.21	-0.21	0.19
RO	5.54	4.89	0.16	1.03	0.04	-0.58
SI	3.23	2.34	0.66	0.20	0.03	0.00
SK	9.64	2.99	3.69	2.77	-0.02	0.21
FI	15.66	9.46	2.24	2.46	0.09	1.41
SE	14.24	12.68	0.72	1.95	0.83	-1.94
UK	72.19	26.33	25.60	15.57	2.89	1.80

Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

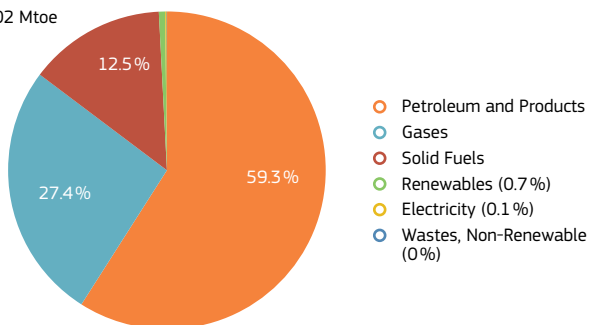
2.1.2 Net Imports

BY FUEL – EU-28 – 1990-2015 (Mtoe)



NET IMPORTS – BY FUEL – EU-28 – 2015 (% TOTAL)

Total = 902 Mtoe

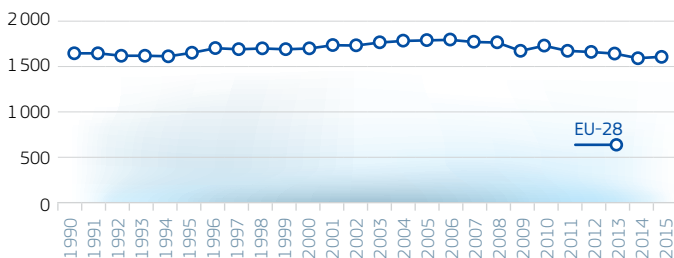


2.1.3 Gross Inland Consumption

ALL FUELS

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	1675.00	1730.11	1830.86	1764.37	1607.75	1627.48
Index 1995	100%	103%	109%	105%	96%	97%
BE	53.83	59.30	59.06	60.90	53.55	54.22
BG	22.69	18.52	19.75	17.77	17.74	18.51
CZ	41.94	41.37	45.43	45.43	42.24	42.44
DK	20.20	19.74	19.56	20.04	16.80	16.77
DE	341.64	342.33	341.93	332.49	313.24	314.20
EE	5.53	4.97	5.62	6.15	6.68	6.26
IE	11.07	14.43	15.27	15.17	13.56	14.18
EL	23.87	28.29	31.41	28.72	24.37	24.45
ES	102.08	123.64	144.22	130.25	116.68	121.42
FR	241.78	257.54	276.38	266.89	248.45	252.62
HR	7.86	8.42	9.78	9.43	8.20	8.53
IT	161.77	174.22	190.08	177.93	151.03	156.17
CY	1.97	2.41	2.54	2.74	2.23	2.27
LV	4.62	3.86	4.59	4.63	4.45	4.38
LT	8.64	7.06	8.71	6.79	6.70	6.91
LU	3.32	3.65	4.80	4.64	4.22	4.18
HU	26.18	25.30	27.61	26.60	23.82	25.20
MT	0.76	0.80	0.97	0.94	0.89	0.76
NL	75.52	78.02	84.11	85.78	76.36	77.56
AT	27.11	29.02	34.13	34.29	32.47	33.25
PL	98.83	88.65	92.22	100.68	94.33	95.43
PT	20.64	25.29	27.48	24.28	22.09	23.00
RO	46.31	36.65	39.21	35.80	32.16	32.41
SI	6.07	6.45	7.33	7.34	6.65	6.58
SK	17.72	18.30	19.03	17.86	16.18	16.43
FI	29.36	32.41	34.50	37.11	34.77	33.16
SE	51.47	48.90	50.99	50.78	48.21	45.47
UK	222.25	230.56	234.17	212.95	189.71	190.75

GROSS INLAND CONSUMPTION – ALL FUELS – 1990-2015 (Mtoe)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.1.3 Gross Inland Consumption

BY FUEL

	2015						
	Petroleum and Products	Gases	Solid Fuels	Nuclear	Renewables	Waste, Non-Renewable	Electricity
Mtoe							
EU-28	560.1	357.9	262.7	221.2	211.0	13.3	1.2
Share (%)	34.4%	22.0%	16.1%	13.6%	13.0%	0.8%	0.1%
BE	24.22	13.97	3.18	6.73	3.63	0.68	1.81
BG	4.20	2.60	6.62	3.98	1.99	0.03	-0.91
CZ	8.96	6.48	16.58	6.95	4.28	0.28	-1.08
DK	6.47	2.87	1.73	0.00	4.76	0.43	0.51
DE	107.41	65.15	79.52	23.68	38.35	4.25	-4.15
EE	1.12	0.39	3.85	0.00	0.91	0.07	-0.08
IE	7.04	3.75	2.19	0.00	1.07	0.06	0.06
EL	12.48	2.68	5.61	0.00	2.78	0.09	0.83
ES	52.00	24.54	13.24	14.78	16.62	0.25	-0.01
FR	78.26	35.05	8.83	112.84	21.81	1.35	-5.51
HR	3.28	2.08	0.61	0.00	1.96	0.01	0.58
IT	57.16	55.30	12.30	0.00	26.27	1.15	3.99
CY	2.11	0.00	0.00	0.00	0.15	0.01	0.00
LV	1.49	1.10	0.05	0.00	1.54	0.06	0.16
LT	2.60	2.07	0.19	0.00	1.42	0.02	0.62
LU	2.63	0.77	0.05	0.00	0.21	0.03	0.48
HU	6.92	7.49	2.36	4.10	3.01	0.13	1.18
MT	0.65	0.00	0.00	0.00	0.02	0.00	0.09
NL	31.20	29.18	10.94	1.05	3.64	0.80	0.75
AT	11.96	6.88	3.18	0.00	9.65	0.73	0.87
PL	23.92	13.78	48.26	0.00	8.99	0.52	-0.03
PT	10.40	4.07	3.21	0.00	4.97	0.16	0.20
RO	9.10	8.93	5.91	3.00	5.97	0.07	-0.58
SI	2.29	0.66	1.07	1.46	1.06	0.04	0.00
SK	3.34	3.88	3.28	3.95	1.58	0.19	0.21
FI	8.76	2.24	4.03	6.00	10.49	0.24	1.41
SE	10.22	0.73	2.12	14.54	19.19	0.62	-1.94
UK	69.94	61.28	23.80	18.15	14.74	1.04	1.80

Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.1.3 Gross Inland Consumption

RENEWABLES

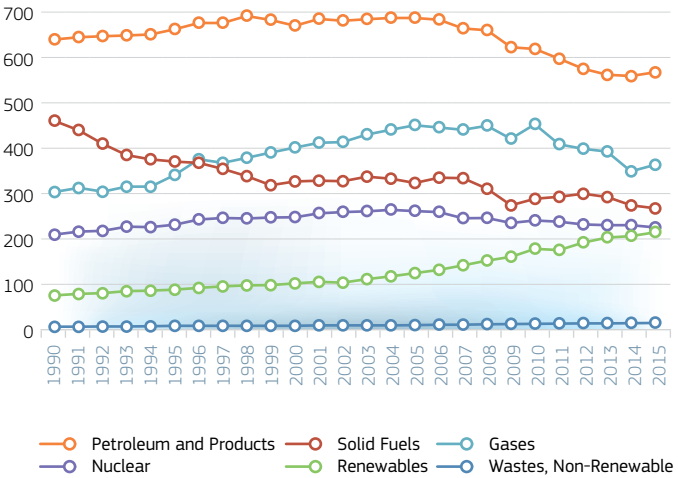
Mtoe	2015						
	Renewables	Biomass and Renewable Wastes	Hydro	Wind	Solar	Geothermal	Tide, Wave and Ocean
EU-28	211.0	136.2	29.3	26.0	13.1	6.5	0.0
Share (%)	13.0%	8.4%	1.8%	1.6%	0.8%	0.4%	0.0%
BE	3.63	2.84	0.03	0.48	0.29	0.00	0.00
BG	1.99	1.21	0.49	0.13	0.14	0.03	0.00
CZ	4.28	3.86	0.15	0.05	0.21	0.00	0.00
DK	4.76	3.46	0.00	1.22	0.09	0.00	0.00
DE	38.35	25.70	1.63	6.81	4.00	0.21	0.00
EE	0.91	0.84	0.00	0.06	0.00	0.00	0.00
IE	1.07	0.42	0.07	0.57	0.01	0.00	0.00
EL	2.78	1.31	0.52	0.40	0.53	0.01	0.00
ES	16.62	6.75	2.42	4.24	3.19	0.02	0.00
FR	21.81	14.33	4.68	1.83	0.72	0.21	0.04
HR	1.96	1.32	0.55	0.07	0.02	0.01	0.00
IT	26.27	13.45	3.92	1.28	2.16	5.47	0.00
CY	0.15	0.05	0.00	0.02	0.08	0.00	0.00
LV	1.54	1.37	0.16	0.01	0.00	0.00	0.00
LT	1.42	1.31	0.03	0.07	0.01	0.00	0.00
LU	0.21	0.18	0.01	0.01	0.01	0.00	0.00
HU	3.01	2.81	0.02	0.06	0.02	0.11	0.00
MT	0.02	0.01	0.00	0.00	0.01	0.00	0.00
NL	3.64	2.80	0.01	0.65	0.12	0.06	0.00
AT	9.65	5.75	3.19	0.42	0.27	0.04	0.00
PL	8.99	7.83	0.16	0.93	0.05	0.02	0.00
PT	4.97	2.89	0.75	1.00	0.15	0.19	0.00
RO	5.97	3.74	1.43	0.61	0.17	0.03	0.00
SI	1.06	0.65	0.33	0.00	0.03	0.04	0.00
SK	1.58	1.19	0.33	0.00	0.05	0.01	0.00
FI	10.49	8.84	1.44	0.20	0.00	0.00	0.00
SE	19.19	11.30	6.48	1.40	0.02	0.00	0.00
UK	14.74	10.03	0.54	3.47	0.70	0.00	0.00

Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

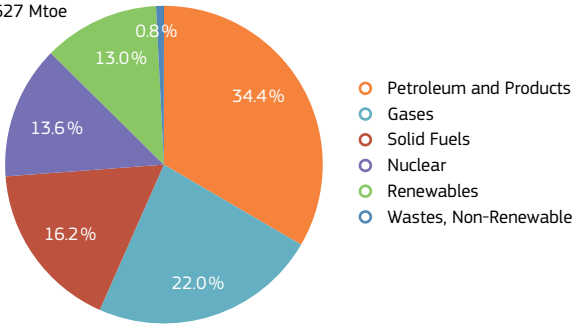
2.1.3 Gross Inland Consumption

BY FUEL – EU-28 – 1990-2015 (Mtoe)



GROSS INLAND CONSUMPTION – BY FUEL – EU-28 – 2015 (% TOTAL)

Total = 1627 Mtoe



Source: Eurostat, May 2017
Methodology and Notes: See Appendix 13 – No 2

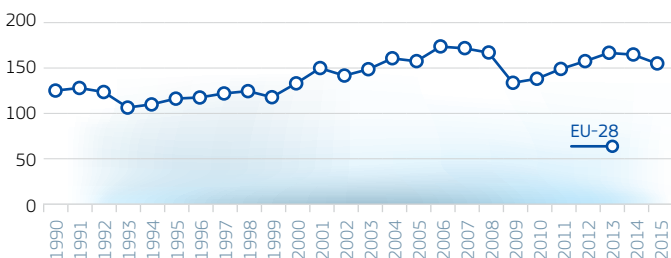
2.2 Energy Imports

2.2.1 Imports – Solid Fuels

TOTAL

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	116.3	131.7	153.6	136.2	160.3	151.5
Index 1995	100%	113%	132%	117%	138%	130%
BE	10.34	8.41	6.01	4.39	3.87	3.16
BG	2.42	2.38	2.57	1.75	0.95	0.76
CZ	1.84	1.04	1.35	2.38	2.98	2.81
DK	7.68	3.86	3.56	2.68	2.56	1.52
DE	12.26	22.20	26.57	32.55	37.17	37.45
EE	0.35	0.33	0.07	0.05	0.05	0.01
IE	1.90	1.70	1.91	0.96	1.22	1.48
EL	0.92	0.81	0.40	0.40	0.20	0.16
ES	8.67	13.35	14.83	7.85	9.53	10.96
FR	9.60	13.55	14.14	12.37	9.25	8.70
HR	0.15	0.48	0.62	0.70	0.60	0.62
IT	13.09	13.22	16.52	14.00	13.13	12.58
CY	0.01	0.03	0.04	0.01	0.00	0.00
LV	0.17	0.06	0.08	0.12	0.05	0.04
LT	0.16	0.08	0.18	0.22	0.22	0.17
LU	0.49	0.11	0.08	0.07	0.05	0.05
HU	1.65	1.21	1.45	1.41	1.06	1.11
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	11.62	14.01	12.99	12.78	28.67	34.27
AT	2.64	3.06	3.99	3.37	3.06	2.76
PL	1.08	1.02	2.15	8.27	6.43	5.07
PT	3.86	3.97	3.23	1.63	2.60	3.21
RO	3.07	1.93	2.96	1.28	1.01	1.10
SI	0.19	0.24	0.33	0.28	0.23	0.20
SK	4.18	3.47	3.90	3.22	2.93	2.83
FI	3.86	3.55	3.36	3.98	3.65	2.55
SE	2.80	2.43	2.58	2.57	2.01	2.01
UK	11.34	15.23	27.73	16.92	26.84	15.92

IMPORTS – SOLID FUELS – TOTAL – 1990-2015 (Mtoe)



Source: Eurostat, May 2017

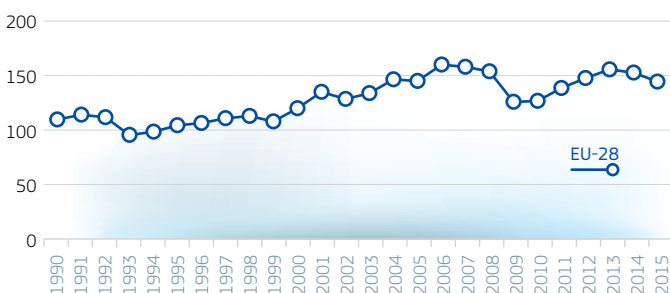
Methodology and Notes: See Appendix 13 – No 2

2.2.1 Imports – Solid Fuels

HARD COAL

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	105.9	120.7	144.1	127.1	151.3	143.5
Index 1995	100%	114%	136%	120%	143%	136%
BE	9.44	7.46	5.70	4.09	3.45	2.69
BG	2.35	2.25	2.49	1.70	0.89	0.70
CZ	1.63	0.63	0.76	1.42	2.06	1.92
DK	7.65	3.82	3.54	2.67	2.54	1.51
DE	9.50	17.39	23.93	29.33	34.66	35.35
EE	0.05	0.06	0.04	0.05	0.05	0.01
IE	1.87	1.68	1.88	0.95	1.20	1.47
EL	0.92	0.81	0.40	0.40	0.20	0.16
ES	8.09	13.25	14.74	7.71	9.36	10.73
FR	8.91	12.49	13.00	11.41	8.71	8.29
HR	0.07	0.44	0.57	0.66	0.56	0.59
IT	12.58	12.87	15.94	13.99	12.30	12.12
CY	0.01	0.03	0.04	0.01	0.00	0.00
LV	0.17	0.05	0.07	0.11	0.05	0.04
LT	0.16	0.07	0.16	0.18	0.18	0.14
LU	0.13	0.10	0.07	0.06	0.05	0.04
HU	1.23	1.12	1.30	1.40	1.03	1.05
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	11.06	13.63	12.71	12.54	28.29	34.03
AT	2.05	2.34	3.00	2.48	2.20	2.09
PL	1.05	1.01	2.05	8.16	6.22	4.91
PT	3.84	3.97	3.22	1.63	2.59	3.20
RO	3.01	1.65	2.42	0.52	0.41	0.47
SI	0.14	0.20	0.30	0.23	0.19	0.18
SK	3.10	3.15	3.48	2.57	2.59	2.53
FI	3.67	3.21	3.01	3.68	3.36	2.24
SE	2.37	2.14	2.22	2.29	1.91	1.92
UK	10.87	14.90	27.11	16.84	26.20	15.15

IMPORTS – SOLID FUELS – HARD COAL – 1990-2015 (Mtoe)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.1 Imports – Solid Fuels

RANKING

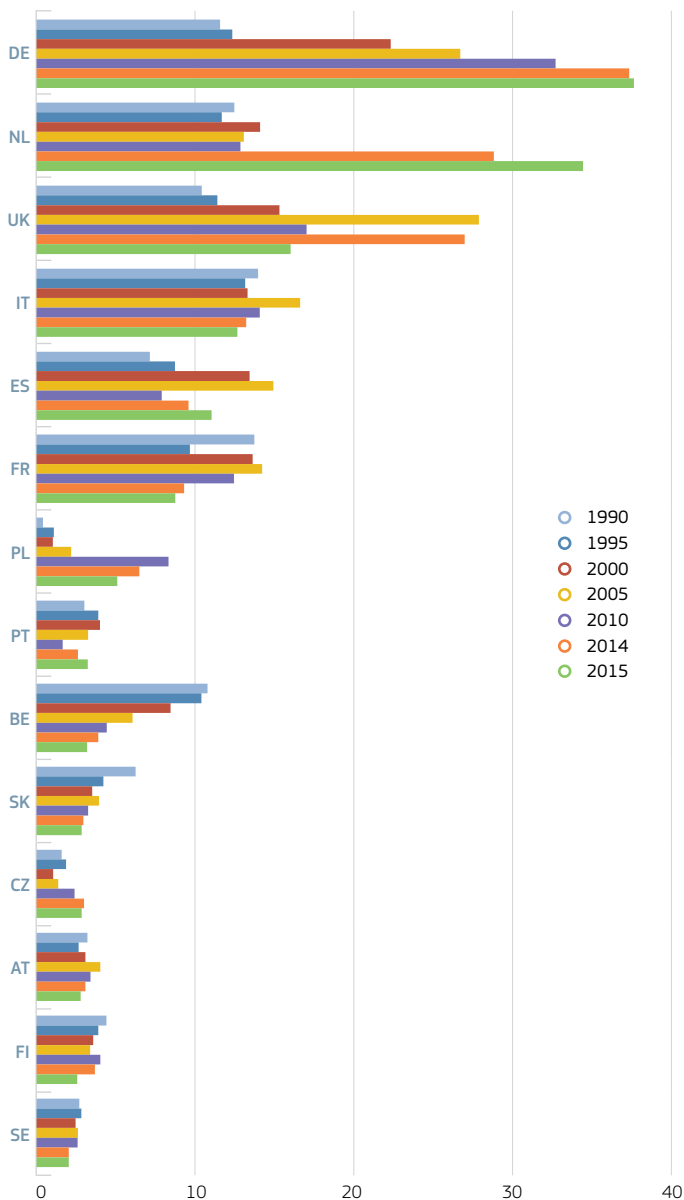
Mtoe and % Top 10 Ranking	1995			2015		
	MS	Imports	EU-28 Share	MS	Imports	EU-28 Share
Solid Fuels						
1	IT	13.1	11.3%	DE	37.5	24.7%
2	DE	12.3	10.5%	NL	34.3	22.6%
3	NL	11.6	10.0%	UK	15.9	10.5%
4	UK	11.3	9.7%	IT	12.6	8.3%
5	BE	10.3	8.9%	ES	11.0	7.2%
6	FR	9.6	8.3%	FR	8.7	5.7%
7	ES	8.7	7.4%	PL	5.1	3.3%
8	DK	7.7	6.6%	PT	3.2	2.1%
9	SK	4.2	3.6%	BE	3.2	2.1%
10	PT	3.9	3.3%	SK	2.8	1.9%
Top 5 Total		58.6	50.4%		111.2	73.4%
Total EU-28		116.3	100.0%		151.5	100.0%
Of which: Hard Coal						
1	IT	12.6	11.9%	DE	35.3	24.6%
2	NL	11.1	10.4%	NL	34.0	23.7%
3	UK	10.9	10.3%	UK	15.2	10.6%
4	DE	9.5	9.0%	IT	12.1	8.4%
5	BE	9.4	8.9%	ES	10.7	7.5%
6	FR	8.9	8.4%	FR	8.3	5.8%
7	ES	8.1	7.6%	PL	4.9	3.4%
8	DK	7.6	7.2%	PT	3.2	2.2%
9	PT	3.8	3.6%	BE	2.7	1.9%
10	FI	3.7	3.5%	SK	2.5	1.8%
Top 5 Total		53.4	50.5%		107.4	74.8%
Total EU-28		105.9	100.0%		143.5	100.0%

Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.1 Imports – Solid Fuels

BY MEMBER STATE – TOP 14 IMPORTERS
1990-2015 (Mtoe)

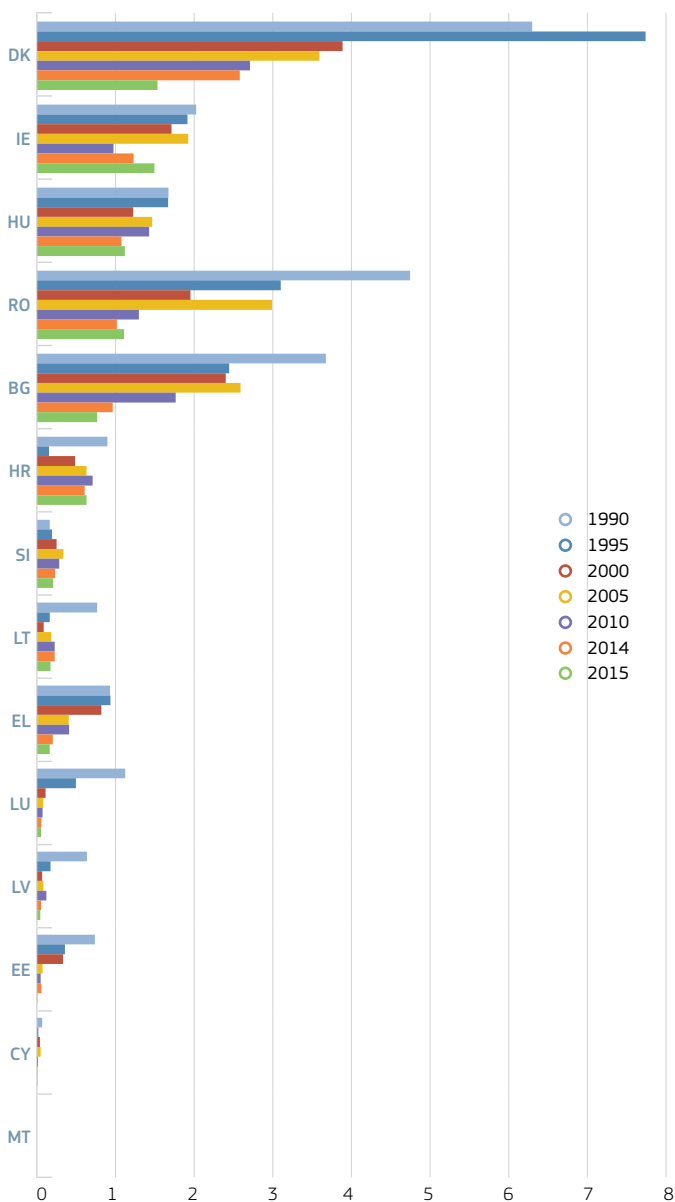


Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.1 Imports – Solid Fuels

BY MEMBER STATE – LEAST 14 IMPORTERS
1990-2015 (Mtoe)



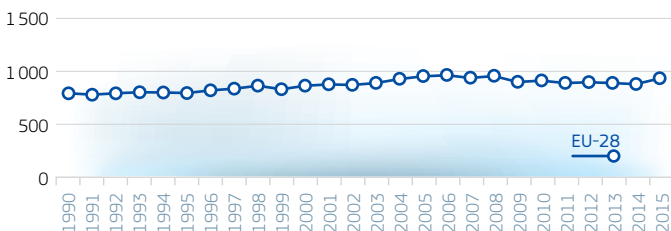
Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.2 Imports – Petroleum and Products

TOTAL

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	801.4	868.0	954.5	914.3	884.6	934.1
Index 1995	100%	108%	119%	114%	110%	117%
BE	44.53	52.79	58.21	56.35	58.36	60.19
BG	7.96	5.97	7.55	7.60	7.92	8.73
CZ	8.89	8.60	10.90	10.61	10.94	11.21
DK	10.32	9.88	8.69	9.38	11.77	13.80
DE	146.77	147.99	147.46	128.69	127.19	128.16
EE	1.17	0.93	1.16	1.16	1.89	1.71
IE	6.80	9.56	10.14	9.17	7.86	9.24
EL	21.43	23.81	26.44	27.05	29.48	31.36
ES	67.52	78.17	87.72	80.31	78.99	83.58
FR	102.35	114.09	122.74	105.98	96.91	100.05
HR	4.49	4.19	5.50	4.94	3.93	4.51
IT	106.72	109.37	108.86	97.87	72.33	81.13
CY	2.03	2.53	2.79	2.91	2.27	2.44
LV	2.14	1.35	2.28	1.94	2.36	2.76
LT	5.32	5.41	9.61	10.22	9.43	11.18
LU	1.78	2.39	3.16	2.86	2.69	2.62
HU	7.59	7.09	8.79	8.37	8.76	9.15
MT	0.84	1.46	1.63	2.38	2.24	2.67
NL	90.44	104.30	125.46	146.20	143.04	155.87
AT	11.02	12.29	15.39	13.70	13.35	13.81
PL	15.42	20.98	24.46	28.68	28.39	31.74
PT	17.96	17.48	19.55	15.30	15.08	17.92
RO	11.18	6.30	9.88	8.46	9.39	9.80
SI	2.35	2.69	2.85	3.28	3.75	4.08
SK	5.11	6.01	6.92	6.69	6.67	7.44
FI	12.65	15.33	15.75	16.06	17.88	16.35
SE	26.90	27.93	27.30	27.94	26.86	28.11
UK	59.68	69.14	83.34	80.18	84.89	84.47

IMPORTS – PETROLEUM AND PRODUCTS – TOTAL –
1990-2015 (Mtoe)

Source: Eurostat, May 2017

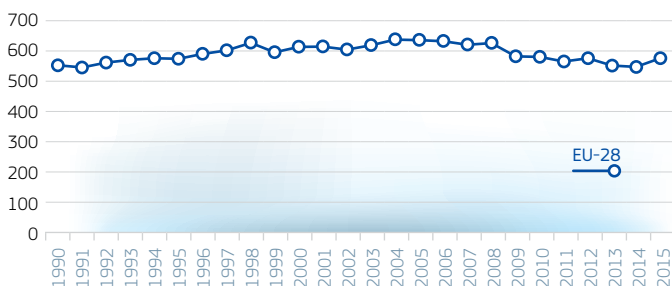
Methodology and Notes: See Appendix 13 – No 2

2.2.2 Imports – Petroleum and Products

CRUDE AND NGL

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	565.6	609.8	635.4	572.9	535.1	567.1
Index 1995	100%	108%	112%	101%	95%	100%
BE	26.18	34.04	31.77	33.11	32.57	32.26
BG	7.39	5.18	5.84	5.37	5.02	5.91
CZ	7.06	5.68	7.70	7.83	7.51	7.27
DK	5.43	3.77	2.71	2.69	3.44	4.15
DE	102.37	104.69	111.82	92.61	89.29	90.09
EE	0.00	0.00	0.00	0.00	0.00	0.00
IE	2.27	2.98	3.16	3.08	2.70	3.69
EL	15.51	19.60	18.92	20.40	21.10	22.34
ES	55.34	57.70	59.94	52.69	58.81	64.87
FR	78.65	86.84	85.22	64.95	54.92	58.22
HR	4.23	3.95	4.02	3.56	1.87	2.34
IT	73.82	83.27	89.91	79.59	54.90	62.87
CY	0.80	1.16	0.00	0.00	0.00	0.00
LV	0.00	0.00	0.00	0.00	0.00	0.00
LT	3.10	4.86	9.05	9.16	7.57	8.73
LU	0.00	0.00	0.00	0.00	0.00	0.00
HU	5.89	5.88	6.25	5.68	6.04	6.19
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	61.08	60.56	62.05	60.13	54.89	59.93
AT	7.56	7.28	7.88	6.70	7.62	8.02
PL	11.95	17.48	17.75	22.49	23.24	26.10
PT	13.04	11.63	13.46	11.39	10.61	14.18
RO	8.31	4.76	8.86	6.11	6.92	6.77
SI	0.49	0.13	0.00	0.00	0.00	0.00
SK	5.09	5.74	5.46	5.33	5.37	5.78
FI	8.67	11.56	10.57	11.21	12.08	11.10
SE	19.50	21.97	19.49	19.62	18.61	19.95
UK	41.91	49.11	53.57	49.24	50.03	46.34

IMPORTS – PETROLEUM AND PRODUCTS – CRUDE AND NGL – 1990-2015 (Mtoe)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.2 Imports – Petroleum and Products

RANKING

Mtoe and % Top 10 Ranking	1995			2015		
	MS	Imports	EU-28 Share	MS	Imports	EU-28 Share
Petroleum and Products						
1	DE	146.8	18.3%	NL	155.9	16.7%
2	IT	106.7	13.3%	DE	128.2	13.7%
3	FR	102.3	12.8%	FR	100.1	10.7%
4	NL	90.4	11.3%	UK	84.5	9.0%
5	ES	67.5	8.4%	ES	83.6	8.9%
6	UK	59.7	7.4%	IT	81.1	8.7%
7	BE	44.5	5.6%	BE	60.2	6.4%
8	SE	26.9	3.4%	PL	31.7	3.4%
9	EL	21.4	2.7%	EL	31.4	3.4%
10	PT	18.0	2.2%	SE	28.1	3.0%
Top 5 Total		513.8	64.1%		552.1	59.1%
Total		801.4	100.0%		934.1	100.0%
Of which: Crude and NGL						
1	DE	102.4	18.1%	DE	90.1	15.9%
2	FR	78.7	13.9%	ES	64.9	11.4%
3	IT	73.8	13.1%	IT	62.9	11.1%
4	NL	61.1	10.8%	NL	59.9	10.6%
5	ES	55.3	9.8%	FR	58.2	10.3%
6	UK	41.9	7.4%	UK	46.3	8.2%
7	BE	26.2	4.6%	BE	32.3	5.7%
8	SE	19.5	3.4%	PL	26.1	4.6%
9	EL	15.5	2.7%	EL	22.3	3.9%
10	PT	13.0	2.3%	SE	20.0	3.5%
Top 5 Total		371.3	65.6%		336.0	59.2%
Total		565.6	100.0%		567.1	100.0%

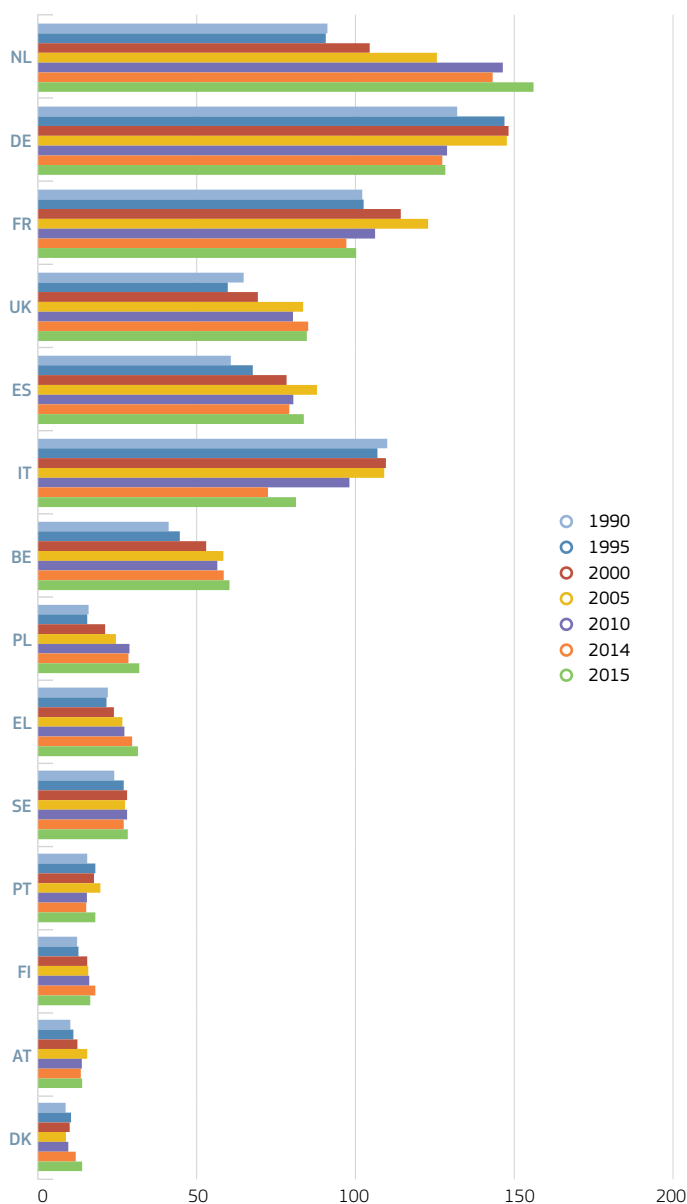
Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.2 Imports – Petroleum and Products

BY MEMBER STATE – TOP 14 IMPORTERS

1990-2015 (Mtoe)



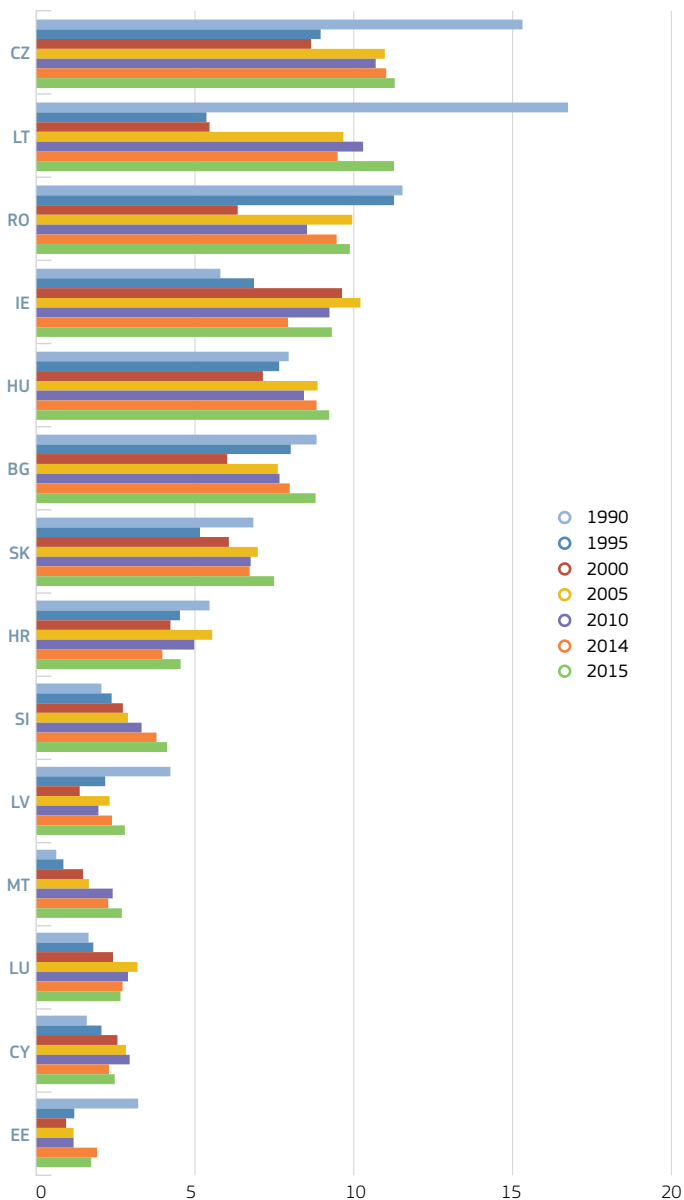
Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.2 Imports – Petroleum and Products

BY MEMBER STATE – LEAST 14 IMPORTERS

1990-2015 (Mtoe)



Source: Eurostat, May 2017

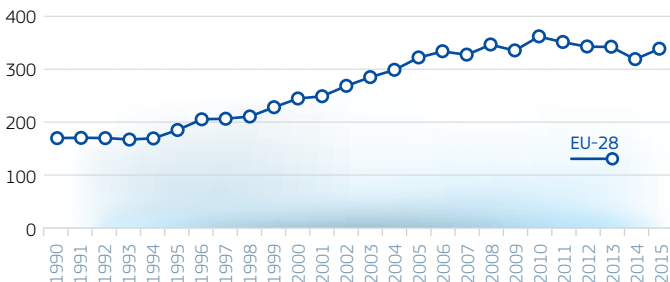
Methodology and Notes: See Appendix 13 – No 2

2.2.3 Imports – Gases

TOTAL

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	180.18	242.43	323.75	365.91	320.42	341.28
Index 1995	100%	135%	180%	203%	178%	189%
BE	10.42	13.28	14.82	19.55	13.56	15.32
BG	4.56	2.74	2.46	2.13	2.22	2.52
CZ	6.43	7.48	7.60	6.98	5.95	6.16
DK	0.00	0.00	0.00	0.14	0.56	0.59
DE	55.32	61.09	78.90	78.80	75.34	85.92
EE	0.58	0.66	0.80	0.56	0.44	0.39
IE	0.09	2.48	3.01	4.48	3.59	3.62
EL	0.00	1.69	2.33	3.23	2.47	2.67
ES	7.52	15.47	30.25	31.96	31.66	28.18
FR	28.11	36.46	41.62	42.11	40.14	39.45
HR	0.22	0.91	0.93	0.87	0.94	0.87
IT	28.56	47.05	60.16	61.72	45.67	50.18
CY	0.00	0.00	0.00	0.00	0.00	0.00
LV	1.00	1.11	1.43	0.90	0.78	1.08
LT	2.03	2.07	2.49	2.49	2.15	2.14
LU	0.56	0.67	1.18	1.20	0.84	0.77
HU	5.53	7.35	9.81	7.91	7.44	5.68
MT	0.00	0.00	0.00	0.00	0.00	0.00
NL	2.76	12.48	16.44	18.45	20.87	27.15
AT	5.47	5.32	8.03	10.19	8.31	9.43
PL	5.84	6.64	8.57	8.91	9.71	9.99
PT	0.00	2.04	3.89	4.51	3.48	4.07
RO	4.79	2.71	4.19	1.82	0.47	0.16
SI	0.75	0.82	0.93	0.86	0.62	0.66
SK	4.53	5.71	6.05	5.00	3.96	3.69
FI	2.84	3.43	3.61	3.84	2.51	2.24
SE	0.76	0.78	0.84	1.47	0.79	0.72
UK	1.51	2.01	13.42	45.86	35.96	37.62

IMPORTS – GASES – TOTAL – 1990-2015 (Mtoe)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.3 Imports – Gases

RANKING

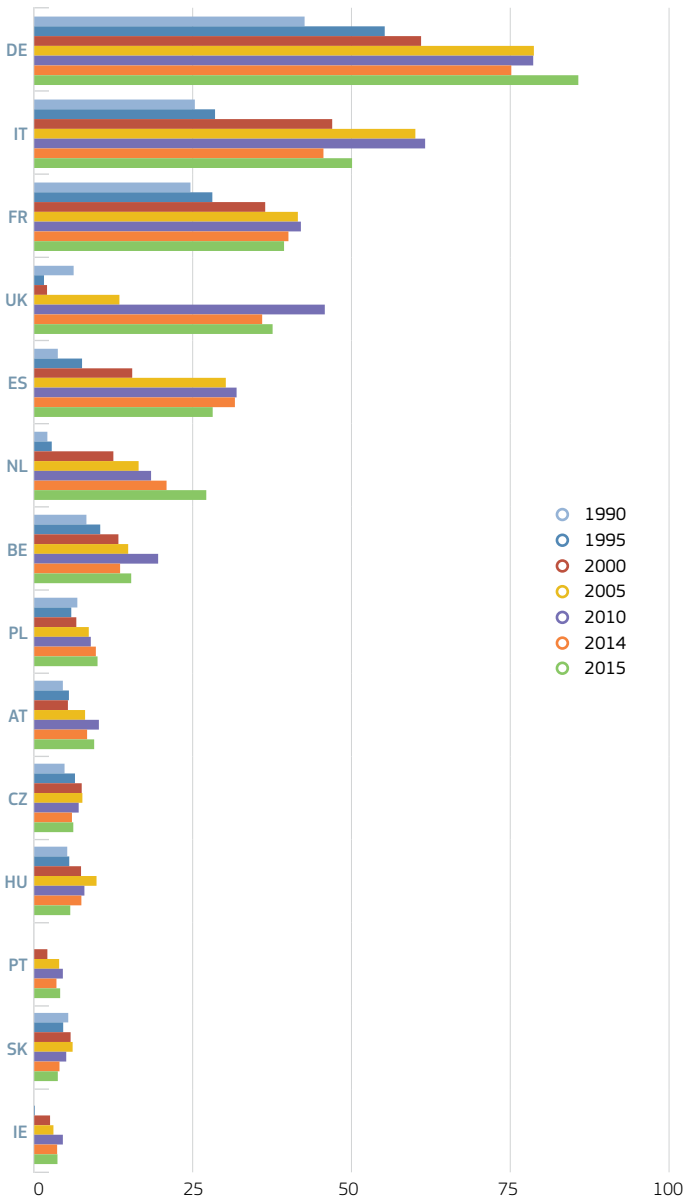
Mtoe and % EU-28 Ranking	1995			2015		
	MS	Imports	EU-28 Share	MS	Imports	EU-28 Share
Gases						
1	DE	55.3	30.7%	DE	85.9	25.2%
2	IT	28.6	15.9%	IT	50.2	14.7%
3	FR	28.1	15.6%	FR	39.5	11.6%
4	BE	10.4	5.8%	UK	37.6	11.0%
5	ES	7.5	4.2%	ES	28.2	8.3%
6	CZ	6.4	3.6%	NL	27.2	8.0%
7	PL	5.8	3.2%	BE	15.3	4.5%
8	HU	5.5	3.1%	PL	10.0	2.9%
9	AT	5.5	3.0%	AT	9.4	2.8%
10	RO	4.8	2.7%	CZ	6.2	1.8%
11	BG	4.6	2.5%	HU	5.7	1.7%
12	SK	4.5	2.5%	PT	4.1	1.2%
13	FI	2.8	1.6%	SK	3.7	1.1%
14	NL	2.8	1.5%	IE	3.6	1.1%
15	LT	2.0	1.1%	EL	2.7	0.8%
16	UK	1.5	0.8%	BG	2.5	0.7%
17	LV	1.0	0.6%	FI	2.2	0.7%
18	SE	0.8	0.4%	LT	2.1	0.6%
19	SI	0.8	0.4%	LV	1.1	0.3%
20	EE	0.6	0.3%	HR	0.9	0.3%
21	LU	0.6	0.3%	LU	0.8	0.2%
22	HR	0.2	0.1%	SE	0.7	0.2%
23	IE	0.1	0.0%	SI	0.7	0.2%
24	DK	0.0	0.0%	DK	0.6	0.2%
25	EL	0.0	0.0%	EE	0.4	0.1%
26	CY	0.0	0.0%	RO	0.2	0.0%
27	MT	0.0	0.0%	CY	0.0	0.0%
28	PT	0.0	0.0%	MT	0.0	0.0%
Top 5 Total		129.9	72.1%		241.4	70.7%
Total		180.2	100.0%		341.3	100.0%

Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.3 Imports – Gases

BY MEMBER STATE – TOP 14 IMPORTERS
1990-2015 (Mtoe)

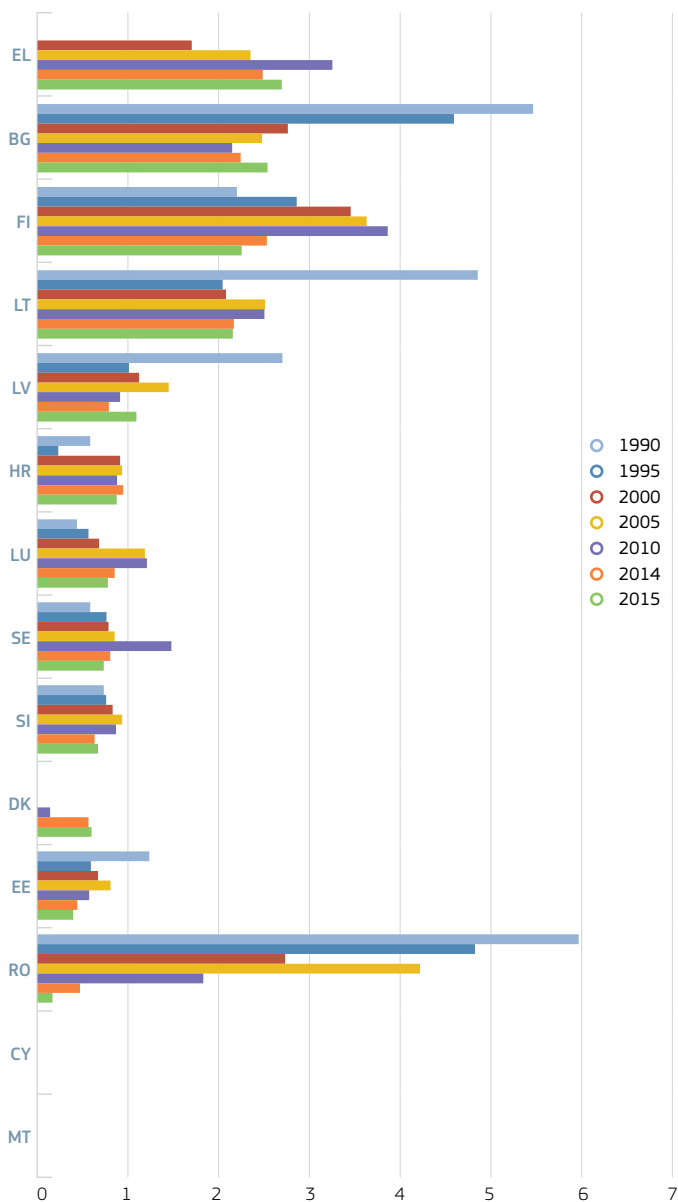


Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.3 Imports – Gases

BY MEMBER STATE – LEAST 14 IMPORTERS
1990-2015 (Mtoe)



Source: Eurostat, May 2017

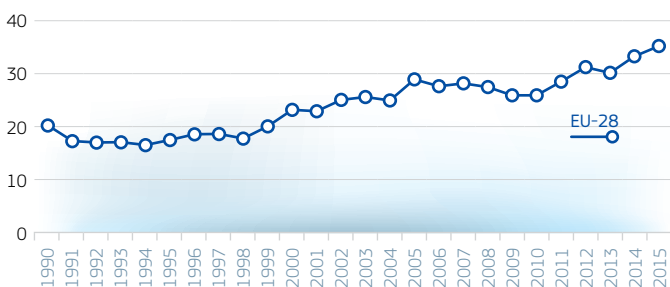
Methodology and Notes: See Appendix 13 – No 2

2.2.4 Imports – Electricity

TOTAL

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	17.0	22.9	28.8	25.7	33.3	35.3
Index 1995	100%	135%	170%	151%	196%	208%
BE	0.81	1.00	1.23	1.07	1.87	2.04
BG	0.17	0.08	0.07	0.10	0.37	0.37
CZ	0.58	0.75	1.06	0.57	1.02	1.39
DK	0.35	0.72	1.11	0.91	1.09	1.35
DE	3.42	3.88	4.89	3.69	3.48	3.18
EE	0.02	0.03	0.03	0.10	0.32	0.47
IE	0.00	0.02	0.18	0.07	0.25	0.15
EL	0.12	0.15	0.48	0.73	0.81	0.95
ES	0.66	1.06	0.88	0.45	1.06	1.29
FR	0.25	0.32	0.69	1.68	0.68	0.86
HR	0.38	0.38	0.75	1.07	0.94	1.13
IT	3.32	3.86	4.32	3.95	4.02	4.37
CY	0.00	0.00	0.00	0.00	0.00	0.00
LV	0.23	0.18	0.25	0.34	0.46	0.45
LT	0.45	0.44	0.49	0.70	0.73	0.68
LU	0.49	0.55	0.55	0.63	0.60	0.65
HU	0.28	0.82	1.35	0.85	1.64	1.71
MT	0.00	0.00	0.00	0.00	0.00	0.09
NL	1.03	1.97	2.04	1.34	2.83	2.65
AT	0.63	1.19	1.75	1.71	2.30	2.53
PL	0.38	0.28	0.43	0.54	1.16	1.24
PT	0.23	0.40	0.83	0.50	0.62	0.69
RO	0.07	0.07	0.20	0.07	0.24	0.39
SI	0.06	0.36	0.80	0.74	0.62	0.78
SK	0.30	0.51	0.69	0.63	1.12	1.29
FI	0.73	1.05	1.54	1.35	1.86	1.85
SE	0.66	1.57	1.25	1.28	1.19	0.80
UK	1.41	1.23	0.96	0.61	2.00	1.95

IMPORTS – ELECTRICITY – TOTAL – 1990-2015 (Mtoe)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.4 Imports – Electricity

RANKING

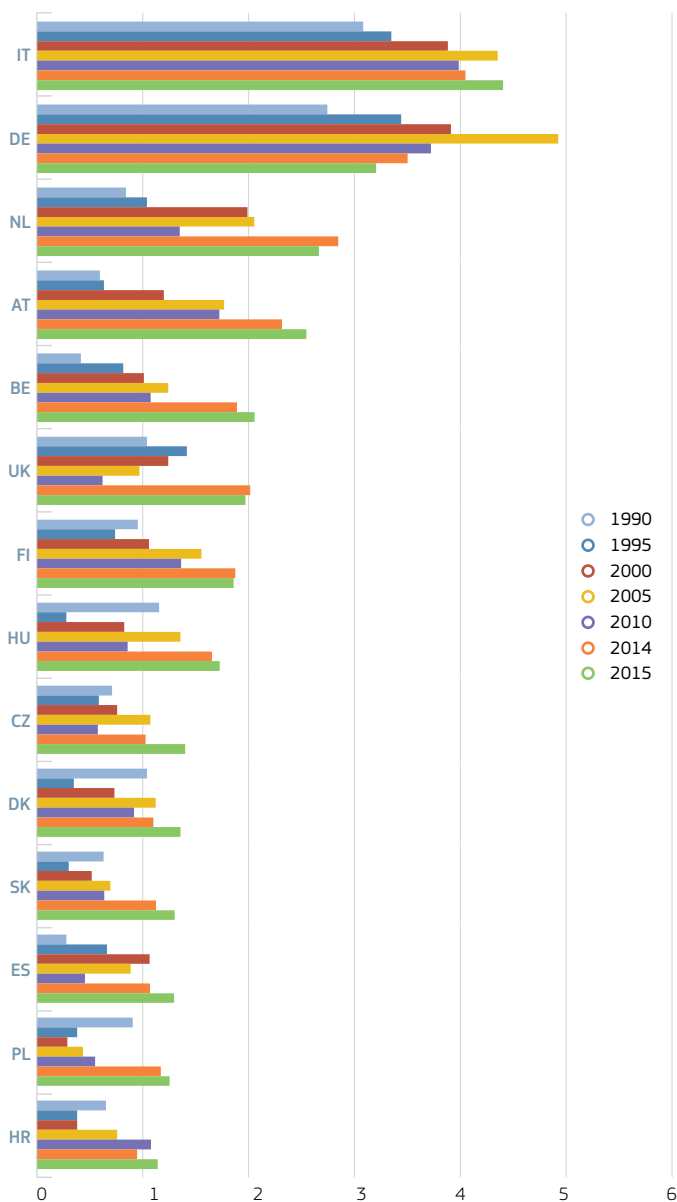
Mtoe and % EU-28 Ranking	1995			2015		
	MS	Imports	EU-28 Share	MS	Imports	EU-28 Share
Electricity						
1	DE	3.4	20.1%	IT	4.4	12.4%
2	IT	3.3	19.6%	DE	3.2	9.0%
3	UK	1.4	8.3%	NL	2.6	7.5%
4	NL	1.0	6.1%	AT	2.5	7.2%
5	BE	0.8	4.8%	BE	2.0	5.8%
6	FI	0.7	4.3%	UK	2.0	5.5%
7	SE	0.7	3.9%	FI	1.8	5.2%
8	ES	0.7	3.9%	HU	1.7	4.9%
9	AT	0.6	3.7%	CZ	1.4	3.9%
10	CZ	0.6	3.4%	DK	1.3	3.8%
11	LU	0.5	2.9%	SK	1.3	3.7%
12	LT	0.5	2.7%	ES	1.3	3.6%
13	HR	0.4	2.2%	PL	1.2	3.5%
14	PL	0.4	2.2%	HR	1.1	3.2%
15	DK	0.3	2.0%	EL	1.0	2.7%
16	SK	0.3	1.7%	FR	0.9	2.4%
17	HU	0.3	1.6%	SE	0.8	2.3%
18	FR	0.2	1.4%	SI	0.8	2.2%
19	LV	0.2	1.3%	PT	0.7	2.0%
20	PT	0.2	1.3%	LT	0.7	1.9%
21	BG	0.2	1.0%	LU	0.6	1.8%
22	EL	0.1	0.7%	EE	0.5	1.3%
23	RO	0.1	0.4%	LV	0.5	1.3%
24	SI	0.1	0.4%	RO	0.4	1.1%
25	EE	0.0	0.1%	BG	0.4	1.0%
26	IE	0.0	0.0%	IE	0.2	0.4%
27	CY	0.0	0.0%	MT	0.1	0.3%
28	MT	0.0	0.0%	CY	0.0	0.0%
Top 5 Total		10.0	58.7%		14.8	41.8%
Total		17.0	100.0%		35.3	100.0%

Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.4 Imports – Electricity

BY MEMBER STATE – TOP 14 IMPORTERS
1990-2015 (Mtoe)

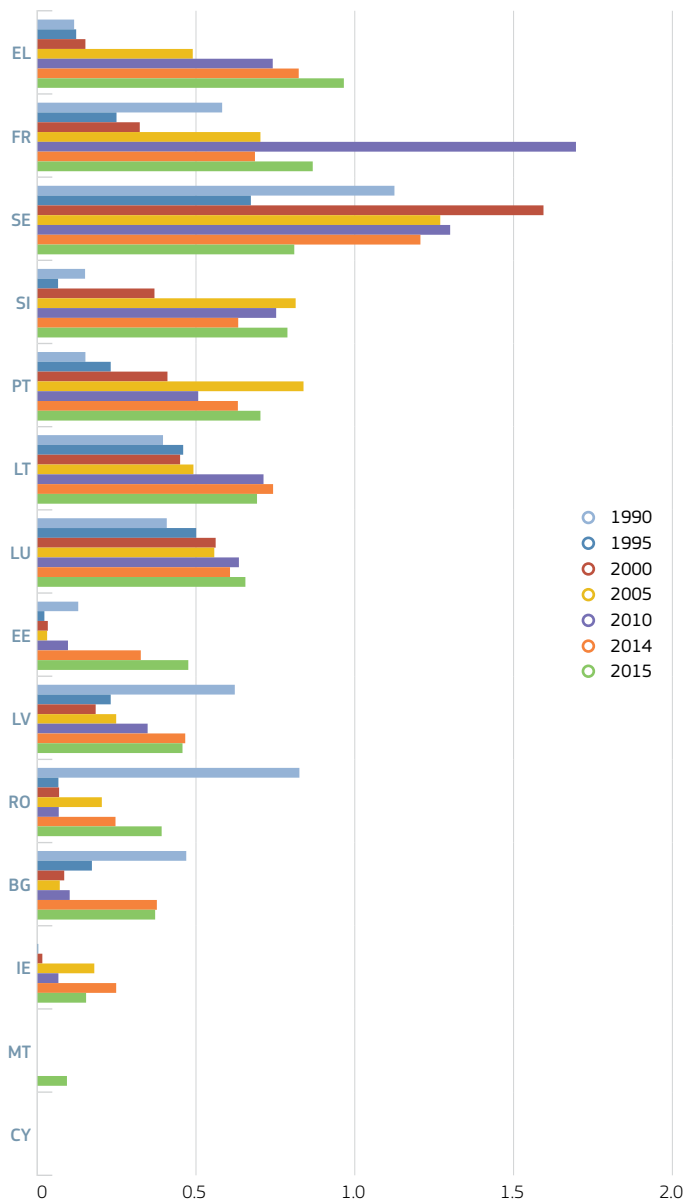


Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.4 Imports – Electricity

BY MEMBER STATE – LEAST 14 IMPORTERS
1990-2015 (Mtoe)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.5 Imports by Country of Origin

EU-28 – HARD COAL

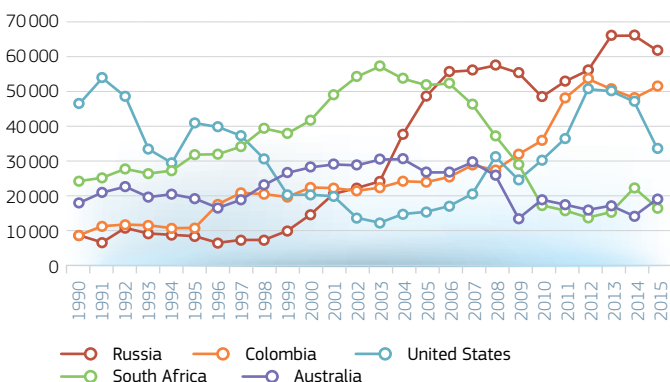
TOP 15 EXTRA-EU – (ORDERED BY 2015 VOLUME)

kton	1995	2000	2005	2010	2014	2015
Russia	8800	14966	48784	48666	66127	61837
Colombia	11181	22763	24253	36144	48307	51614
United States	41140	20665	15737	30519	47310	33914
Australia	19551	28608	27120	19251	14533	19422
South Africa	32108	41920	51988	17622	22620	16846
Not specified	6604	5229	3359	7594	6856	13438
Indonesia	3411	9102	14949	10158	7886	7626
Canada	4237	6378	6642	3637	5732	3377
Mozambique	0	107	0	0	736	1100
Kazakhstan	262	0	932	332	1124	1001
Ukraine	348	2058	4229	3183	2941	802
Norway	329	928	1124	1385	1532	676
Venezuela	2822	3621	2003	685	292	345
Chile	0	0	0	0	435	254
Vietnam	363	560	253	60	43	177
Other extra-EU	2504	1899	592	162	153	195

kton	1995	2000	2005	2010	2014	2015
Extra-EU	133660	158804	201965	179398	226627	212624
Intra-EU	30115	31206	26519	22090	17024	18750
Total Intra-EU and Extra-EU	163775	190010	228484	201488	243651	231374

EU-28 – HARD COAL – TOP 5 IMPORTS FROM EXTRA-EU (1990-2015)

Volume (kton)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.5 Imports by Country of Origin

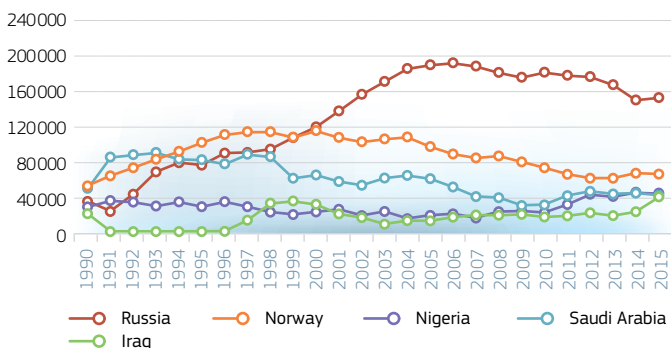
EU-28 – CRUDE OIL AND NGL

TOP 15 EXTRA-EU – (ORDERED BY 2015 VOLUME)

kton	1995	2000	2005	2010	2014	2015
Russia	76 349	120 165	191 504	182 879	150 984	153 913
Norway	102 382	115 861	97 606	73 406	67 131	66 019
Nigeria	28 633	22 530	18 617	21 783	45 170	44 276
Saudi Arabia	82 630	65 089	60 740	30 759	44 218	41 728
Iraq	0	31 317	12 290	16 945	22 836	40 019
Kazakhstan	78	9 993	26 386	29 701	32 621	35 104
Azerbaijan	0	3 712	7 255	22 922	21 940	27 296
Algeria	17 069	21 434	22 776	8 252	22 915	24 518
Angola	4 758	3 861	7 065	8 479	16 486	22 167
Mexico	7 247	9 770	10 647	6 782	10 851	13 114
Libya	47 978	45 883	50 681	53 751	16 828	12 816
Egypt	6 950	5 579	1 716	4 654	5 975	7 794
Kuwait	12 239	9 741	7 618	3 420	4 816	6 649
Venezuela	9 929	6 944	6 988	5 001	6 183	5 502
Other African countries*	0	0	510	553	3 627	5 052
other extra-EU	114 269	71 106	62 082	61 804	29 162	28 290
kton						
Extra-EU	510 511	542 985	584 481	531 091	501 743	534 257
Intra-EU	50 375	62 254	48 269	39 612	30 055	30 286
Total Intra-EU and Extra-EU	560 886	605 239	632 750	570 703	531 798	564 543
Mio barrels						
Extra-EU	3 743	3 981	4 285	3 894	3 678	3 917
Intra-EU	369	456	354	290	220	222
Total Intra-EU and Extra-EU	4 112	4 437	4 639	4 184	3 899	4 139

EU-28 – CRUDE OIL AND NGL – TOP 5 IMPORTS FROM EXTRA-EU (1990-2015)

Volume (kton)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.2.5 Imports by Country of Origin

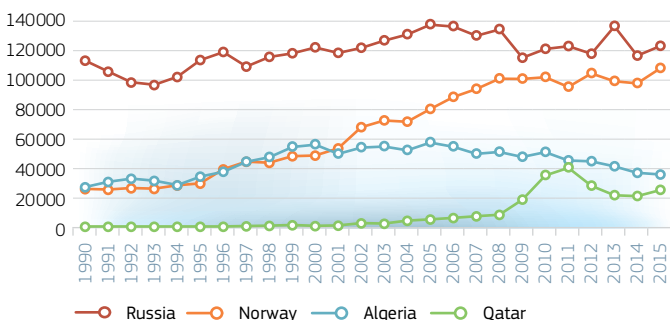
EU-28 – NATURAL GAS

TOP 8 EXTRA-EU SUPPLIERS – (ORDERED BY 2015 VOLUME)

TJ (GCV)	1995	2000	2005	2010	2014	2015
Russia	4 245 121	4 582 197	5 207 606	4 555 386	4 422 811	4 674 423
Norway	1 159 830	1 921 081	3 040 188	3 905 622	3 731 858	4 107 571
Algeria	1 362 649	2 203 075	2 256 826	1 986 974	1 451 855	1 401 603
Qatar	0	12 443	195 713	1 383 263	814 597	974 639
Not specified	61 134	334 765	937 105	957 962	763 322	794 091
Libya	54 497	33 442	209 499	381 660	248 145	269 748
Nigeria	0	172 020	436 319	576 236	179 042	259 922
Trinidad & Tobago	0	36 334	29 673	206 167	109 214	76 446
Other Extra-EU	47 267	49 082	475 679	235 075	81 174	66 274
Extra-EU	6 930 498	9 344 439	12 788 608	14 188 345	11 802 018	12 624 717
Intra-EU	1 451 229	1 933 316	2 272 283	2 833 535	3 103 701	3 251 534
Total Intra-EU and Extra-EU	8 381 727	11 277 755	15 060 891	17 021 880	14 905 719	15 876 251
Mio m³						
Russia	112 079	120 699	136 283	119 665	115 166	121 689
Norway	28 968	47 879	79 259	100 851	96 680	106 837
Algeria	33 607	55 513	57 004	50 360	36 227	35 036
Qatar	0	309	4 859	34 828	20 672	24 805
Not specified	1 473	8 126	23 859	24 111	19 621	20 432
Libya	1 353	830	5 445	9 980	6 513	7 080
Nigeria	0	4 385	10 586	14 024	4 425	6 440
Trinidad & Tobago	0	902	751	5 142	2 732	1 948
Other Extra-EU	1 172	1 272	11 962	5 857	2 034	1 660
Extra-EU	178 652	239 915	330 008	364 818	304 070	325 927
Intra-EU	41 582	54 625	60 169	75 091	80 875	84 713
Total Intra-EU and Extra-EU	220 234	294 540	390 177	439 909	384 945	410 640

EU-28 – NATURAL GAS – TOP 4 IMPORTS FROM EXTRA-EU (1990-2015)

Volume (Mio m³)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.3 Energy Import Dependency

2.3.1 Import Dependency – All Fuels* (%)

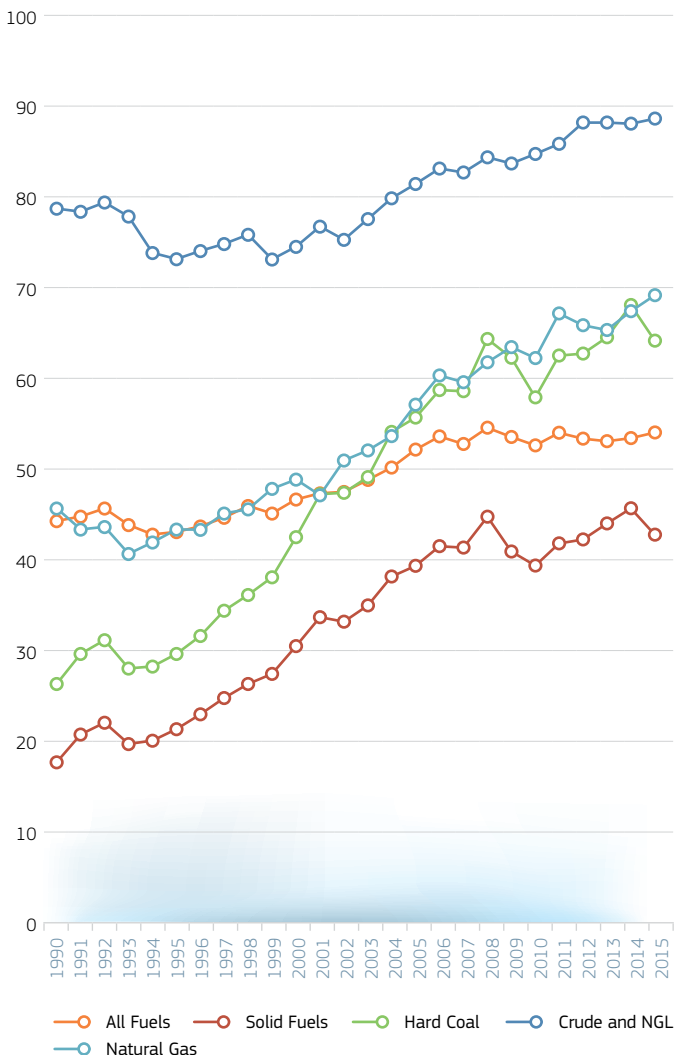
Imports from Extra-EU	1995	2000	2005	2010	2014	2015
EU-28	43.1	46.7	52.1	52.6	53.4	54.0
Index 1995	100.0	108.3	121.0	122.1	124.0	125.4
Intra and Extra-EU Imports						
BE	80.8	78.1	80.1	78.2	80.0	84.3
BG	55.9	46.0	46.7	39.6	34.5	35.4
CZ	20.5	22.8	27.8	25.5	30.3	31.9
DK	33.4	-35.0	-49.8	-15.7	12.2	13.1
DE	56.8	59.4	60.5	60.3	61.7	61.9
EE	32.3	32.2	26.1	13.6	8.9	7.4
IE	69.5	84.8	89.6	86.6	85.3	88.7
EL	66.7	69.5	68.6	69.1	66.2	71.7
ES	71.7	76.6	81.4	76.7	72.9	73.3
FR	48.0	51.5	51.6	49.0	46.1	46.0
HR	36.1	48.4	52.5	46.6	43.8	48.3
IT	81.9	86.5	83.4	82.6	75.9	77.1
CY	100.5	98.6	100.7	100.8	93.2	97.7
LV	70.4	61.0	63.9	45.5	40.6	51.2
LT	63.1	59.4	56.8	81.8	78.0	78.4
LU	97.7	99.6	97.4	97.1	96.5	95.9
HU	47.9	55.2	63.1	56.4	59.3	53.4
MT	104.8	100.3	100.0	99.0	97.7	97.3
NL	20.1	38.1	37.8	30.1	33.3	52.1
AT	66.4	65.4	71.8	62.9	66.1	60.8
PL	-1.2	9.9	17.2	31.3	28.6	29.3
PT	85.3	85.1	88.6	75.1	71.2	77.4
RO	30.3	21.8	27.6	21.9	17.1	17.1
SI	50.9	52.8	52.5	48.7	44.5	48.7
SK	68.5	65.6	65.3	63.1	60.9	58.7
FI	53.6	55.1	54.1	47.8	48.9	46.8
SE	38.9	40.7	36.8	36.6	32.0	30.1
UK	-16.4	-16.9	13.4	28.2	45.5	37.4

* Negative Rate Indicates a Net Exporter.
Values Over 100 % Indicate Stocks Build Up.

Source: Eurostat, May 2017
Methodology and Notes: [See Appendix 13 – No 2](#)

2.3.2 Import Dependency – By Fuel

EU-28 – IMPORTS FROM EXTRA-EU – 1990-2015 (%)



Source: Eurostat, May 2017
 Methodology and Notes: See Appendix 13 – No 2

2.3.3 Import Dependency – Solid Fuels *

(%)

Imports from Extra-EU	1995	2000	2005	2010	2014	2015
EU-28	21.5	30.6	39.4	39.4	45.7	42.8
Index 1995	100.0	142.5	183.5	183.7	213.0	199.4
Intra and Extra-EU Imports						
BE	108.9	91.2	101.3	98.3	101.6	97.2
BG	31.8	35.1	37.0	24.7	14.5	11.2
CZ	-25.5	-21.8	-16.1	-15.1	-4.2	-1.8
DK	117.9	94.9	94.4	69.4	104.9	85.0
DE	11.2	25.5	31.7	40.1	44.8	45.5
EE	8.4	9.1	0.8	-0.6	0.2	-0.3
IE	64.9	64.6	70.8	49.1	60.0	66.7
EL	11.0	8.5	4.1	5.1	2.9	2.8
ES	45.4	61.3	70.1	85.5	77.1	78.3
FR	56.8	86.4	94.5	101.0	98.6	98.4
HR	85.7	110.9	91.4	102.3	92.4	103.1
IT	105.9	104.6	99.4	101.0	98.7	100.2
CY	100.0	100.0	119.4	64.7	150.0	100.0
LV	61.6	46.2	93.9	102.8	76.7	87.0
LT	64.4	87.0	94.6	92.0	89.4	87.2
LU	100.0	100.0	100.0	100.0	100.0	100.0
HU	29.5	28.2	42.9	41.9	28.3	34.0
MT						
NL	97.9	102.0	101.5	121.7	108.9	112.4
AT	75.7	83.9	99.3	99.4	100.9	85.2
PL	-30.2	-29.1	-23.9	-5.2	-8.7	-11.6
PT	105.8	102.9	96.3	98.3	96.9	100.0
RO	26.5	25.6	33.4	17.6	17.4	17.4
SI	13.6	18.7	21.0	19.2	21.4	18.9
SK	76.7	80.2	88.4	75.7	83.3	84.6
FI	63.4	68.9	67.4	57.5	80.3	61.2
SE	95.4	98.3	97.2	102.2	94.7	92.3
UK	22.2	39.6	71.9	51.9	87.5	65.4

* Negative Rate Indicates a Net Exporter.
Values Over 100% Indicate Stocks Build Up.

Source: Eurostat, May 2017
Methodology and Notes: [See Appendix 13 – No 2](#)

2.3.4 Import Dependency – Hard Coal*

(%)

Imports from Extra-EU	1995	2000	2005	2010	2014	2015
EU-28	29.7	42.6	55.7	57.9	68.0	64.1
Index 1995	100.0	143.2	187.3	194.8	228.9	215.6
Intra and Extra-EU Imports						
BE	108.5	90.4	100.9	100.7	103.2	96.5
BG	73.0	100.5	94.7	88.3	73.9	94.9
CZ	-34.2	-56.1	-49.4	-54.3	-18.1	-9.1
DK	118.0	94.7	94.3	69.3	104.9	85.0
DE	17.1	39.2	57.5	73.7	86.5	87.6
EE	101.9	116.4	97.2	117.9	103.9	26.3
IE	105.9	93.2	100.8	79.3	96.7	102.7
EL	95.2	105.9	112.5	100.3	109.8	91.4
ES	48.5	66.8	74.4	85.4	76.8	78.2
FR	58.0	87.3	92.9	100.6	97.5	96.8
HR	73.9	112.9	90.5	102.7	92.3	102.5
IT	105.6	105.7	99.7	101.5	99.0	100.5
CY	100.0	100.0	119.4	64.7	150.0	100.0
LV	93.6	81.8	97.3	106.7	78.0	87.0
LT	69.1	100.0	102.6	95.3	97.3	90.1
LU	100.0	100.0	100.0	100.0	100.0	100.0
HU	103.5	99.0	105.1	99.5	101.0	99.3
MT						
NL	97.4	101.5	100.3	122.3	109.3	112.8
AT	88.3	91.6	107.1	97.5	101.7	82.9
PL	-31.7	-29.9	-21.3	3.7	1.0	-2.4
PT	105.9	103.4	96.3	98.2	96.9	100.0
RO	81.7	96.0	102.2	100.9	87.0	95.3
SI	100.0	100.5	93.8	100.9	103.8	96.7
SK	92.9	103.8	105.2	91.9	98.5	97.5
FI	89.0	97.7	102.6	85.5	118.5	89.9
SE	101.6	107.7	104.3	115.2	103.9	99.5
UK	21.8	39.4	71.3	52.1	86.8	64.5

* Negative Rate Indicates a Net Exporter.
Values Over 100% Indicate Stocks Build Up.

Source: Eurostat, May 2017
Methodology and Notes: [See Appendix 13 – No2](#)

2.3.5 Import Dependency – Petroleum and Products *

(%)

Imports from Extra-EU	1995	2000	2005	2010	2014	2015
EU-28	74.1	75.7	82.1	84.5	87.5	88.8
Index 1995	100.0	102.2	110.8	114.0	118.1	119.9
Intra and Extra-EU Imports						
BE	99.6	100.2	100.8	101.4	101.1	103.8
BG	99.6	95.4	102.2	101.1	97.9	99.1
CZ	98.0	95.3	97.5	96.5	97.6	97.8
DK	11.0	-80.8	-102.7	-43.4	-9.5	5.8
DE	95.8	94.6	97.1	96.5	95.7	96.4
EE	80.2	77.4	70.8	57.5	51.6	39.3
IE	100.1	98.8	100.0	97.2	97.6	103.9
EL	98.4	100.2	97.7	98.7	99.9	105.4
ES	101.5	101.0	101.2	99.9	101.7	102.1
FR	96.9	99.5	99.3	97.7	98.5	98.5
HR	55.6	61.0	79.4	80.4	74.0	79.7
IT	93.3	96.1	91.8	93.5	88.6	89.5
CY	102.6	100.3	102.3	104.2	97.9	102.9
LV	102.6	94.8	102.2	94.4	92.4	102.9
LT	114.5	100.4	91.9	98.7	93.0	100.7
LU	98.2	102.1	99.4	99.4	100.3	99.3
HU	71.0	76.0	81.2	84.7	87.7	93.2
MT	104.8	100.3	100.1	99.2	98.3	97.8
NL	85.7	97.4	96.2	94.2	91.9	101.5
AT	89.3	89.1	91.6	89.9	91.6	94.0
PL	95.9	98.7	97.5	97.0	93.1	96.8
PT	100.6	99.4	102.3	97.5	95.5	99.7
RO	48.6	34.2	38.5	51.9	54.0	53.4
SI	97.8	101.5	101.2	99.2	97.7	99.6
SK	100.6	90.5	88.2	89.5	91.0	89.4
FI	94.6	103.5	98.4	89.4	94.8	104.5
SE	95.6	100.8	104.0	93.6	101.7	105.4
UK	-57.4	-54.9	-3.2	14.1	42.1	36.4

* Negative Rate Indicates a Net Exporter.
Values Over 100 % Indicate Stocks Build Up.

Source: Eurostat, May 2017
Methodology and Notes: [See Appendix 13 – No 2](#)

2.3.6 Import Dependency – Crude and NGL* (%)

Imports from Extra-EU	1995	2000	2005	2010	2014	2015
EU-28	73.0	74.4	81.3	84.6	87.9	88.4
Index 1995	100.0	101.9	111.3	115.8	120.4	121.1
Intra and Extra-EU Imports						
BE	99.8	100.2	99.5	99.9	100.1	100.0
BG	99.7	98.7	97.7	99.1	99.0	100.5
CZ	100.2	95.2	99.3	97.6	98.2	98.4
DK	6.3	-120.5	-141.3	-68.8	-19.4	-5.0
DE	96.9	93.8	97.3	97.3	97.6	97.1
EE						
IE	100.2	89.8	98.8	101.6	98.1	108.2
EL	98.8	99.5	95.2	99.5	100.4	101.5
ES	99.1	100.6	100.1	99.3	100.0	99.5
FR	95.8	98.5	98.2	98.2	98.0	98.8
HR	69.2	72.1	78.9	82.2	75.6	79.6
IT	92.8	95.1	94.0	94.5	90.7	92.2
CY	96.3	98.5				
LV						
LT	99.5	94.5	95.3	99.0	98.8	99.5
LU						
HU	71.9	78.6	81.2	85.2	89.2	91.3
MT						
NL	94.2	96.7	96.7	97.6	94.4	98.0
AT	87.6	86.9	88.5	86.2	89.0	90.8
PL	97.1	99.1	97.3	98.4	96.5	100.5
PT	100.0	99.0	100.2	98.8	97.7	100.9
RO	54.9	43.5	61.3	56.5	64.1	62.4
SI	95.9	87.5				
SK	101.5	97.6	97.7	99.9	101.1	99.3
FI	94.1	101.5	97.5	101.1	99.3	104.1
SE	99.3	100.6	100.4	99.0	99.4	100.7
UK	-47.7	-48.0	-0.2	12.7	32.4	22.9

* Negative Rate Indicates a Net Exporter.
Values Over 100% Indicate Stocks Build Up.

Source: Eurostat, May 2017
Methodology and Notes: [See Appendix 13 – No 2](#)

2.3.7 Import Dependency – Natural Gas*

(%)

Imports from Extra-EU	1995	2000	2005	2010	2014	2015
EU-28	43.4	48.9	57.1	62.2	67.3	69.1
Index 1995	100.0	112.7	131.6	143.4	155.2	159.3
Intra and Extra-EU Imports						
BE	98.2	99.3	100.5	100.3	101.2	99.3
BG	99.5	93.6	87.7	92.7	94.0	97.0
CZ	98.0	99.8	97.8	84.8	96.3	95.1
DK	-47.2	-64.8	-113.9	-68.3	-46.9	-48.2
DE	78.6	79.1	79.6	81.2	89.4	90.1
EE	100.0	100.0	100.0	100.0	100.0	100.0
IE	3.6	72.1	86.7	95.5	96.5	96.5
EL	0.0	99.1	99.1	99.9	99.3	99.9
ES	97.4	101.6	101.4	99.4	103.5	96.9
FR	93.0	100.0	99.3	93.0	103.6	98.7
HR	11.6	41.0	23.7	18.1	28.6	27.1
IT	63.9	81.1	84.7	90.5	89.7	90.4
CY						
LV	98.9	101.9	105.6	61.8	72.1	98.6
LT	100.0	100.0	100.7	99.7	104.1	99.7
LU	100.0	100.0	100.0	100.0	99.5	99.4
HU	60.3	75.4	81.1	78.7	97.7	69.7
MT						
NL	-76.4	-49.1	-59.3	-61.6	-73.1	-32.1
AT	84.8	80.6	88.5	75.3	96.8	72.5
PL	64.6	66.3	69.7	69.3	72.0	72.2
PT		100.2	103.8	100.4	100.1	99.8
RO	24.9	19.8	30.1	16.8	5.0	1.8
SI	100.5	99.3	99.6	99.3	99.5	99.7
SK	86.8	98.8	97.5	99.9	104.8	95.1
FI	100.0	100.0	100.0	100.0	99.9	99.7
SE	100.0	100.0	100.0	100.0	100.0	100.0
UK	1.0	-10.7	7.0	37.9	44.9	41.8

* Negative Rate Indicates a Net Exporter.
Values Over 100% Indicate Stocks Build Up.

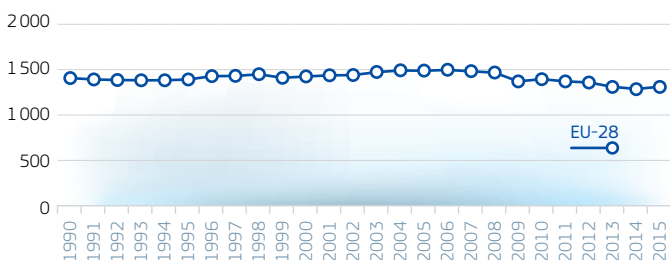
Source: Eurostat, May 2017
Methodology and Notes: [See Appendix 13 – No 2](#)

2.4 Energy Transformation

2.4.1 Transformation Input – All Fuels

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	1 397.3	1 434.1	1 504.2	1 398.4	1 278.3	1 304.2
Index 1995	100%	103%	108%	100%	91%	93%
BE	51.36	61.54	60.49	58.68	52.12	50.55
BG	23.49	18.20	20.19	18.85	18.78	19.06
CZ	33.11	30.61	35.46	35.54	33.83	32.50
DK	19.19	16.81	15.38	15.68	12.58	14.15
DE	268.82	264.63	276.08	250.59	235.29	234.01
EE	3.70	3.41	3.89	4.68	4.88	4.34
IE	6.30	8.33	8.06	7.65	6.59	7.34
EL	27.08	34.06	33.95	33.42	36.74	36.60
ES	94.09	106.42	114.63	102.18	102.13	110.69
FR	198.86	218.10	228.40	206.52	187.35	190.95
HR	6.50	6.64	6.81	5.68	4.14	4.60
IT	141.98	150.89	165.68	149.47	114.24	124.14
CY	1.48	2.07	1.08	1.18	0.90	0.92
LV	1.49	1.09	1.06	1.16	1.12	1.19
LT	8.46	8.85	13.94	11.29	9.41	10.39
LU	0.28	0.10	0.58	0.56	0.33	0.24
HU	20.05	18.95	18.77	19.60	17.01	16.86
MT	0.45	0.49	0.73	0.58	0.50	0.26
NL	82.75	83.04	85.41	85.84	81.78	85.87
AT	15.90	15.20	17.42	16.74	15.99	16.76
PL	68.92	69.51	69.86	75.97	74.66	77.65
PT	19.53	19.52	21.87	17.94	18.67	22.36
RO	36.90	26.90	29.77	23.88	23.06	23.33
SI	3.30	2.78	3.12	3.08	2.84	2.68
SK	14.26	15.55	16.64	15.01	14.42	15.07
FI	25.67	28.35	29.38	33.54	30.99	28.48
SE	45.28	44.24	46.58	45.86	44.62	43.47
UK	178.14	177.78	178.99	157.26	133.29	129.77

TRANSFORMATION INPUT – ALL FUELS – 1990-2015 (Mtoe)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.4.2 Transformation Input – By Fuel

	2015						
	Total, All Products	Solid Fuels	Petroleum and Products	Gases	Nuclear	Renewables	Wastes non-RES
Mtoe							
EU-28	1 304.2	247.4	657.0	107.9	221.2	59.5	9.8
Share (%)	100.0%	19.0%	50.4%	8.3%	17.0%	4.6%	0.7%
BE	50.55	2.23	35.48	4.07	6.73	1.29	0.50
BG	19.06	7.14	6.92	0.95	3.98	0.06	0.00
CZ	32.50	14.79	7.71	1.83	6.95	1.15	0.06
DK	14.15	1.62	9.23	0.84	0.00	2.04	0.41
DE	234.01	77.44	101.18	16.42	23.68	12.07	3.21
EE	4.34	3.62	0.04	0.29	0.00	0.36	0.04
IE	7.34	1.76	3.50	1.94	0.00	0.12	0.03
EL	36.60	5.40	29.78	1.32	0.00	0.08	0.03
ES	110.69	13.84	69.27	8.56	14.78	3.98	0.25
FR	190.95	6.90	61.58	5.01	112.84	3.11	1.19
HR	4.60	0.52	3.47	0.50	0.00	0.10	0.00
IT	124.14	11.86	79.68	20.97	0.00	10.75	0.88
CY	0.92	0.00	0.91	0.00	0.00	0.01	0.00
LV	1.19	0.00	0.00	0.76	0.00	0.43	0.00
LT	10.39	0.01	9.11	0.58	0.00	0.62	0.02
LU	0.24	0.00	0.00	0.17	0.00	0.05	0.02
HU	16.86	2.61	7.40	1.94	4.10	0.74	0.07
MT	0.26	0.00	0.26	0.00	0.00	0.00	0.00
NL	85.87	10.85	62.22	8.91	1.05	1.66	0.76
AT	16.76	2.66	9.24	2.30	0.00	2.14	0.42
PL	77.65	44.45	27.61	3.08	0.00	2.44	0.04
PT	22.36	3.25	15.69	2.34	0.00	0.98	0.10
RO	23.33	5.19	12.09	2.84	3.00	0.20	0.00
SI	2.68	1.02	0.01	0.10	1.46	0.08	0.01
SK	15.07	3.04	6.57	0.92	3.95	0.56	0.02
FI	28.48	3.94	13.24	1.61	6.00	3.42	0.19
SE	43.47	1.78	21.22	0.39	14.54	4.73	0.62
UK	129.77	21.50	63.61	19.30	18.15	6.32	0.90

2.4.3 Transformation Input – By Sector

	2015					
	Total, All Sectors	Conventional Thermal Power Stations	Nuclear Power Stations	District Heating Plants	Refineries, Petroleum and sub-products	Other Transformation Input Industry
Mtoe						
EU-28	1 304.2	361.1	221.2	19.7	642.1	60.2
Share (%)	100.0%	27.7%	17.0%	1.5%	49.2%	4.6%
BE	50.55	6.58	6.73	0.00	35.47	1.76
BG	19.06	7.08	3.98	0.23	6.75	1.03
CZ	32.50	13.91	6.95	0.65	7.66	3.33
DK	14.15	4.03	0.00	0.98	9.13	0.02
DE	234.01	89.51	23.68	4.14	100.07	16.60
EE	4.34	2.84	0.00	0.30	0.00	1.20
IE	7.34	3.79	0.00	0.00	3.43	0.12
EL	36.60	7.92	0.00	0.00	28.67	0.00
ES	110.69	27.87	14.78	0.00	65.92	2.12
FR	190.95	10.99	112.84	1.69	60.98	4.46
HR	4.60	1.03	0.00	0.07	3.42	0.09
IT	124.14	46.78	0.00	0.13	75.16	2.07
CY	0.92	0.92	0.00	0.00	0.00	0.00
LV	1.19	0.97	0.00	0.20	0.00	0.02
LT	10.39	0.76	0.00	0.56	9.08	0.00
LU	0.24	0.23	0.00	0.01	0.00	0.01
HU	16.86	3.32	4.10	0.78	7.38	1.27
MT	0.26	0.26	0.00	0.00	0.00	0.00
NL	85.87	19.77	1.05	0.54	61.34	3.17
AT	16.76	4.59	0.00	0.97	9.16	2.03
PL	77.65	36.72	0.00	2.66	27.47	10.80
PT	22.36	6.65	0.00	0.00	15.44	0.26
RO	23.33	7.66	3.00	0.48	11.85	0.34
SI	2.68	1.18	1.46	0.04	0.00	0.00
SK	15.07	2.15	3.95	0.33	6.37	2.27
FI	28.48	6.35	6.00	1.46	13.04	1.63
SE	43.47	5.14	14.54	1.20	21.13	1.47
UK	129.77	42.05	18.15	2.26	63.18	4.13

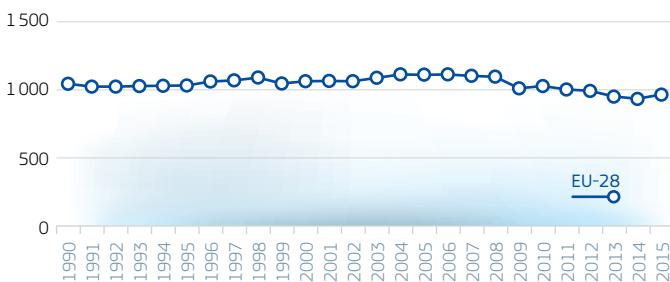
Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.4.4 Transformation Output – All Fuels

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	1026.6	1056.5	1103.1	1022.2	932.2	962.8
Index 1995	100%	103%	107%	100%	91%	94%
BE	39.85	49.65	48.44	46.39	43.77	43.28
BG	15.81	11.40	12.61	11.58	11.55	11.86
CZ	21.85	19.56	22.47	22.35	21.13	20.41
DK	15.83	14.01	13.32	13.47	11.37	13.40
DE	190.24	188.46	199.84	177.68	168.31	169.54
EE	1.69	1.52	1.66	1.91	1.74	1.48
IE	3.91	5.41	5.36	5.18	4.58	5.28
EL	21.19	26.84	26.24	26.55	31.11	31.92
ES	71.54	79.39	85.48	78.39	77.93	84.41
FR	127.11	140.68	142.41	123.01	106.68	109.46
HR	6.00	6.00	6.06	5.09	3.59	4.03
IT	114.66	119.80	133.23	120.58	90.60	99.55
CY	1.05	1.47	0.38	0.46	0.35	0.36
LV	1.19	0.87	0.88	0.95	0.88	0.92
LT	6.04	7.11	11.81	10.98	9.41	10.33
LU	0.18	0.04	0.35	0.34	0.20	0.14
HU	14.19	13.35	13.42	13.95	12.42	12.21
MT	0.14	0.17	0.19	0.18	0.19	0.10
NL	73.97	74.23	75.68	75.61	72.36	76.09
AT	13.45	13.36	14.91	14.41	14.21	14.78
PL	46.70	47.97	48.42	54.79	53.84	56.71
PT	16.15	15.79	17.69	15.06	15.48	18.52
RO	28.82	20.70	23.79	17.54	17.38	17.38
SI	1.65	1.24	1.24	1.24	1.13	1.13
SK	9.96	11.03	12.17	11.17	10.57	11.20
FI	19.83	22.46	23.27	26.22	24.72	22.71
SE	32.79	33.76	33.26	34.49	32.54	32.85
UK	130.84	130.20	128.51	112.71	94.17	92.72

TRANSFORMATION OUTPUT – ALL FUELS – 1990-2015 (Mtoe)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.4.5 Transformation Output – By Fuel

	2015					
	Total, All Products	Solid Fuels	Petroleum and Products	Gases	Electricity	Derived Heat
Mtoe						
EU-28	962.8	32.0	641.9	20.8	211.4	56.6
Share (%)	100.0%	3.3%	66.7%	2.2%	22.0%	5.9%
BE	43.28	0.88	35.47	0.82	5.21	0.90
BG	11.86	0.45	6.74	0.00	3.46	1.20
CZ	20.41	1.76	7.66	1.38	6.71	2.90
DK	13.40	0.00	9.12	0.00	1.22	3.06
DE	169.54	9.17	100.03	6.07	43.34	10.93
EE	1.48	0.01	0.00	0.13	0.83	0.51
IE	5.28	0.07	3.43	0.00	1.78	0.00
EL	31.92	0.00	28.67	0.00	3.20	0.05
ES	84.41	1.13	65.90	0.85	16.51	0.00
FR	109.46	2.32	60.97	1.65	41.28	3.25
HR	4.03	0.00	3.42	0.00	0.34	0.27
IT	99.55	1.35	75.14	0.83	17.05	5.18
CY	0.36	0.00	0.00	0.00	0.36	0.00
LV	0.92	0.00	0.00	0.00	0.30	0.61
LT	10.33	0.00	9.08	0.00	0.26	0.99
LU	0.14	0.00	0.00	0.00	0.09	0.06
HU	12.21	0.70	7.38	0.38	2.52	1.24
MT	0.10	0.00	0.00	0.00	0.10	0.00
NL	76.09	1.46	61.32	1.27	8.71	3.33
AT	14.78	0.96	9.16	1.03	1.63	2.00
PL	56.71	7.01	27.45	2.50	13.04	6.72
PT	18.52	0.00	15.44	0.00	2.60	0.47
RO	17.38	0.00	11.85	0.24	3.46	1.83
SI	1.13	0.00	0.00	0.00	0.92	0.21
SK	11.20	1.17	6.37	0.87	1.91	0.88
FI	22.71	0.63	13.04	0.55	4.25	4.24
SE	32.85	0.81	21.12	0.51	6.04	4.38
UK	92.72	2.12	63.16	1.75	24.26	1.42

Source: Eurostat, May 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

2.4.6 Transformation Output – By Sector

	2015					
	Total, All Sectors	Conventional Thermal Power Stations	Nuclear Power Stations, Electricity	District Heating Plants, Heat	Refineries, Petroleum and sub-products	Other Transformation Output Industry
Mtoe						
EU-28	962.8	177.8	73.7	16.4	641.9	53.0
Share (%)	100.0%	18.5%	7.7%	1.7%	66.7%	5.5%
BE	43.28	3.87	2.24	0.00	35.47	1.70
BG	11.86	3.08	1.32	0.24	6.74	0.47
CZ	20.41	6.66	2.31	0.61	7.66	3.16
DK	13.40	3.28	0.00	1.01	9.12	0.00
DE	169.54	43.27	7.89	3.11	100.03	15.24
EE	1.48	1.10	0.00	0.24	0.00	0.14
IE	5.28	1.78	0.00	0.00	3.43	0.07
EL	31.92	3.25	0.00	0.00	28.67	0.00
ES	84.41	11.59	4.93	0.00	65.90	2.00
FR	109.46	5.56	37.61	1.35	60.97	3.97
HR	4.03	0.55	0.00	0.05	3.42	0.01
IT	99.55	22.14	0.00	0.09	75.14	2.18
CY	0.36	0.36	0.00	0.00	0.00	0.00
LV	0.92	0.76	0.00	0.16	0.00	0.01
LT	10.33	0.72	0.00	0.53	9.08	0.00
LU	0.14	0.14	0.00	0.01	0.00	0.00
HU	12.21	1.63	1.36	0.75	7.38	1.10
MT	0.10	0.10	0.00	0.00	0.00	0.00
NL	76.09	11.23	0.35	0.45	61.32	2.73
AT	14.78	2.82	0.00	0.81	9.16	1.98
PL	56.71	17.49	0.00	2.26	27.45	9.51
PT	18.52	3.07	0.00	0.00	15.44	0.01
RO	17.38	3.98	1.00	0.32	11.85	0.24
SI	1.13	0.61	0.49	0.04	0.00	0.00
SK	11.20	1.15	1.30	0.29	6.37	2.09
FI	22.71	5.06	2.00	1.44	13.04	1.18
SE	32.85	4.35	4.85	1.23	21.12	1.32
UK	92.72	18.22	6.05	1.42	63.16	3.87

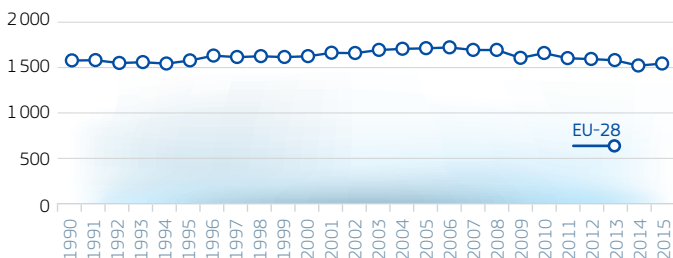
2.5 Final Energy

2.5.1 Primary Energy Consumption

TOTAL

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	1567.6	1618.0	1713.1	1657.4	1508.6	1530.7
Index 1995	100%	103%	109%	106%	96%	98%
BE	47.91	52.32	51.33	53.54	45.15	45.70
BG	21.46	17.54	18.91	17.35	17.23	17.90
CZ	39.63	39.27	42.48	42.50	39.29	39.93
DK	19.88	19.44	19.27	19.78	16.55	16.51
DE	318.02	317.27	317.26	309.91	291.11	292.94
EE	5.35	4.79	5.39	6.06	6.57	6.16
IE	10.49	13.75	14.75	14.82	13.35	13.96
EL	23.37	27.57	30.65	27.61	23.67	23.75
ES	94.20	114.25	135.87	123.22	112.57	117.11
FR	225.92	241.36	260.27	252.94	234.59	239.27
HR	7.05	7.77	9.11	8.83	7.66	8.00
IT	152.03	165.79	181.47	168.37	143.84	149.56
CY	1.90	2.33	2.47	2.66	2.21	2.25
LV	4.58	3.79	4.50	4.56	4.36	4.27
LT	8.10	6.40	7.98	6.13	5.69	5.80
LU	3.28	3.60	4.77	4.61	4.19	4.15
HU	24.55	23.71	25.44	24.63	21.99	23.28
MT	0.76	0.80	0.95	0.93	0.88	0.75
NL	64.46	66.04	68.89	70.45	62.23	64.59
AT	25.73	27.30	32.42	32.45	30.45	31.33
PL	95.12	84.29	87.65	95.72	89.17	90.00
PT	18.55	22.89	24.89	22.55	20.65	21.66
RO	45.07	34.77	36.74	34.33	30.64	31.29
SI	5.95	6.21	7.02	7.13	6.51	6.45
SK	16.79	16.94	17.75	16.80	15.25	15.38
FI	28.24	31.37	33.35	35.88	33.57	31.95
SE	49.48	47.17	48.70	48.67	46.24	43.70
UK	209.76	219.23	222.81	205.04	183.05	183.04

PRIMARY ENERGY CONSUMPTION – 1990-2015 (Mtoe)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.5.2 Available for Final Consumption

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	1 193.1	1 243.2	1 313.4	1 276.4	1 161.1	1 182.4
Index 1995	100%	104%	110%	107%	97%	99%
BE	39.93	44.83	44.42	45.66	42.73	44.46
BG	12.93	9.99	10.56	8.79	8.95	9.65
CZ	28.09	27.50	29.55	29.01	26.58	27.37
DK	15.03	15.02	15.47	15.67	13.71	14.10
DE	244.01	247.33	247.18	242.63	229.87	233.14
EE	3.04	2.69	3.00	3.02	3.15	3.03
IE	8.30	11.05	12.02	12.20	11.07	11.63
EL	16.40	19.08	21.39	19.66	16.23	17.15
ES	72.46	88.79	105.95	95.95	81.44	83.18
FR	156.87	166.22	177.09	170.66	157.05	160.34
HR	6.10	6.66	7.91	7.81	6.78	7.12
IT	124.85	133.74	145.23	137.17	118.59	121.99
CY	1.48	1.75	1.80	1.97	1.65	1.67
LV	3.94	3.28	4.11	4.17	3.99	3.89
LT	5.13	4.28	5.39	5.48	5.90	5.99
LU	3.17	3.56	4.53	4.36	4.03	4.02
HU	18.16	17.72	20.37	19.41	17.71	19.10
MT	0.41	0.44	0.40	0.52	0.56	0.58
NL	64.32	67.80	72.28	72.69	63.61	64.59
AT	22.74	25.45	29.57	30.05	28.76	29.30
PL	67.25	58.57	62.71	71.09	66.19	66.52
PT	15.92	20.22	21.69	19.81	17.18	17.29
RO	30.36	25.03	26.87	24.77	22.76	23.04
SI	4.23	4.70	5.23	5.27	4.73	4.82
SK	12.23	12.72	12.84	12.65	10.98	11.16
FI	21.92	24.76	26.44	27.50	26.39	25.43
SE	36.67	36.21	35.23	36.90	33.83	32.66
UK	157.11	163.83	164.16	151.59	136.74	139.19

Source: Eurostat, May 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

2.5.3 Final Non-Energy Consumption

TOTAL

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	107.4	112.2	117.8	106.9	99.1	96.8
Index 1995	100%	104%	110%	100%	92%	90%
BE	5.92	6.99	7.73	7.36	8.40	8.52
BG	1.23	0.98	0.85	0.42	0.51	0.61
CZ	2.32	2.09	2.95	2.93	2.95	2.52
DK	0.32	0.30	0.29	0.26	0.25	0.25
DE	23.62	25.06	24.66	22.58	22.13	21.27
EE	0.18	0.18	0.23	0.09	0.11	0.10
IE	0.57	0.68	0.52	0.34	0.21	0.22
EL	0.49	0.72	0.76	1.11	0.71	0.70
ES	7.87	9.40	8.35	7.03	4.11	4.31
FR	15.86	16.18	16.12	13.95	13.86	13.35
HR	0.81	0.66	0.68	0.60	0.54	0.53
IT	9.73	8.43	8.61	9.56	7.19	6.61
CY	0.06	0.09	0.07	0.09	0.02	0.02
LV	0.04	0.08	0.10	0.07	0.09	0.11
LT	0.54	0.66	0.73	0.66	1.01	1.12
LU	0.05	0.06	0.03	0.03	0.04	0.03
HU	1.63	1.59	2.17	1.97	1.83	1.92
MT	0.00	0.00	0.02	0.01	0.00	0.01
NL	11.07	11.99	15.22	15.34	14.13	12.96
AT	1.38	1.72	1.71	1.84	2.02	1.92
PL	3.71	4.36	4.57	4.96	5.16	5.43
PT	2.08	2.39	2.59	1.73	1.44	1.34
RO	1.24	1.88	2.47	1.47	1.52	1.13
SI	0.12	0.24	0.31	0.21	0.14	0.13
SK	0.93	1.37	1.28	1.05	0.93	1.05
FI	1.13	1.04	1.15	1.22	1.20	1.21
SE	1.99	1.73	2.29	2.11	1.97	1.77
UK	12.49	11.33	11.37	7.91	6.66	7.71

2.5.4 Final Energy Consumption

TOTAL

Mtoe	1995	2000	2005	2010	2014	2015
EU-28	1082.8	1132.9	1192.3	1164.5	1061.7	1084.0
Index 1995	100%	105%	110%	108%	98%	100%
BE	34.35	37.53	36.58	37.63	34.20	35.78
BG	11.42	9.11	10.19	8.84	9.01	9.51
CZ	26.32	25.07	26.33	25.38	23.63	24.19
DK	14.82	14.72	15.50	15.52	13.52	13.95
DE	221.62	220.01	218.46	219.65	208.88	212.12
EE	2.56	2.43	2.88	2.91	2.82	2.77
IE	7.99	10.78	12.60	11.96	10.77	11.21
EL	15.81	18.68	20.96	19.00	15.52	16.50
ES	64.03	79.90	97.77	89.08	79.23	80.46
FR	143.48	155.31	160.77	155.30	140.35	144.12
HR	5.28	6.00	7.24	7.21	6.24	6.59
IT	114.58	124.72	137.15	128.46	113.35	116.44
CY	1.43	1.65	1.83	1.93	1.62	1.66
LV	3.85	3.25	4.02	4.12	3.89	3.79
LT	4.60	3.77	4.67	4.81	4.89	4.87
LU	3.11	3.50	4.48	4.32	4.00	3.99
HU	16.23	16.14	18.23	17.41	16.19	17.31
MT	0.46	0.44	0.38	0.50	0.55	0.57
NL	50.99	52.34	54.18	55.14	47.32	48.51
AT	21.37	23.69	27.84	28.17	26.74	27.37
PL	62.94	55.21	58.47	66.33	61.60	62.25
PT	13.85	17.92	19.01	18.10	15.77	16.04
RO	26.97	22.77	24.71	22.59	21.72	21.89
SI	4.09	4.46	4.90	5.04	4.59	4.69
SK	11.03	10.98	11.56	11.55	9.98	10.08
FI	21.97	24.32	25.19	26.25	24.50	24.18
SE	35.05	34.97	33.66	34.08	31.19	31.76
UK	142.65	153.24	152.76	143.22	129.62	131.37

Source: Eurostat, May 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

2.5.4 Final Energy Consumption

BY FUEL

Mtoe	2015						
	Petroleum and Products	Gases	Electricity	Renewables	Derived Heat	Solid Fuels	Wastes, Non-Renewable
EU-28	429.6	236.3	235.7	86.8	45.9	46.3	3.5
Share (%)	39.6%	21.8%	21.7%	8.0%	4.2%	4.3%	0.3%
BE	15.72	9.20	7.03	1.58	0.51	1.61	0.14
BG	3.37	1.31	2.44	1.21	0.82	0.33	0.03
CZ	6.72	5.43	4.68	2.73	2.08	2.33	0.22
DK	5.84	1.47	2.64	1.45	2.42	0.12	0.02
DE	81.12	51.76	44.26	13.96	9.59	10.40	1.03
EE	0.99	0.22	0.59	0.48	0.43	0.04	0.01
IE	6.47	1.72	2.16	0.33	0.00	0.51	0.04
EL	9.39	0.97	4.37	1.44	0.05	0.22	0.07
ES	40.47	13.45	19.95	5.29	0.00	1.31	0.00
FR	61.13	28.32	36.54	11.54	2.35	4.11	0.13
HR	2.75	0.98	1.32	1.24	0.21	0.08	0.01
IT	44.34	33.18	24.72	8.37	3.85	1.72	0.27
CY	1.18	0.00	0.35	0.11	0.00	0.00	0.01
LV	1.37	0.32	0.56	0.94	0.50	0.04	0.06
LT	1.87	0.52	0.80	0.70	0.80	0.18	0.00
LU	2.60	0.60	0.54	0.13	0.05	0.05	0.01
HU	5.13	5.45	3.11	2.17	0.97	0.43	0.06
MT	0.38	0.00	0.18	0.01	0.00	0.00	0.00
NL	17.20	17.17	8.87	1.23	2.46	1.53	0.04
AT	9.84	4.88	5.23	3.83	1.83	1.46	0.30
PL	19.19	8.98	10.99	5.45	5.46	11.69	0.49
PT	7.96	1.64	3.94	2.19	0.24	0.01	0.06
RO	7.01	5.47	3.70	3.53	1.27	0.84	0.07
SI	2.17	0.56	1.10	0.62	0.17	0.04	0.04
SK	2.12	3.09	2.10	0.64	0.63	1.32	0.17
FI	6.72	0.84	6.75	5.39	3.83	0.60	0.05
SE	8.52	0.75	10.74	6.53	4.19	1.04	0.00
UK	58.02	37.97	26.04	3.77	1.15	4.28	0.14

Source: Eurostat, May 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

2.5.4 Final Energy Consumption

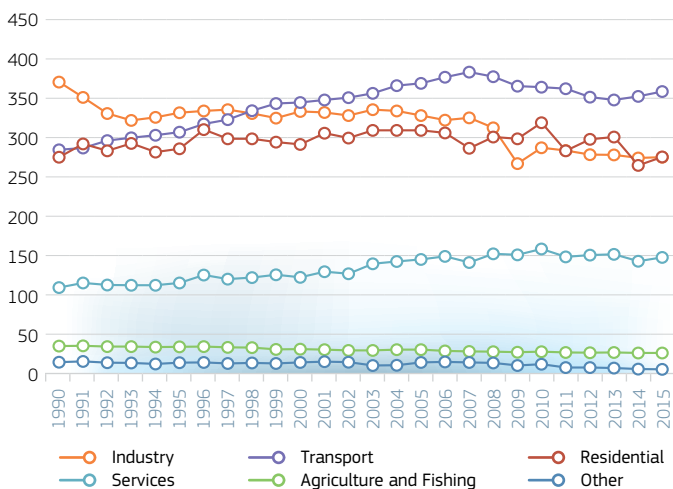
BY SECTOR

	2015					
	Transport	Residential	Industry	Services	Agriculture and Fishing	Other
Mtoe						
EU-28	358.6	275.2	274.7	146.9	24.7	3.8
Share (%)	33.1%	25.4%	25.3%	13.6%	2.3%	0.4%
BE	10.44	8.14	11.89	4.56	0.72	0.03
BG	3.40	2.20	2.71	0.99	0.19	0.02
CZ	6.49	6.69	7.47	2.85	0.61	0.07
DK	4.95	4.25	2.11	1.87	0.76	0.01
DE	63.17	53.17	60.95	34.72	0.00	0.12
EE	0.79	0.86	0.52	0.47	0.13	0.00
IE	4.62	2.71	2.41	1.25	0.22	0.00
EL	6.58	4.40	3.13	1.87	0.27	0.25
ES	33.60	14.88	18.92	10.04	2.49	0.55
FR	50.08	37.66	28.64	22.54	4.43	0.78
HR	2.11	2.42	1.09	0.74	0.23	0.00
IT	39.54	32.49	26.02	15.39	2.85	0.14
CY	0.87	0.32	0.20	0.21	0.04	0.02
LV	1.15	1.11	0.79	0.59	0.16	0.00
LT	1.83	1.37	0.98	0.58	0.10	0.01
LU	2.42	0.50	0.65	0.40	0.02	0.00
HU	4.35	5.96	4.24	2.18	0.58	0.00
MT	0.31	0.08	0.05	0.13	0.01	0.00
NL	14.27	9.56	14.27	6.55	3.76	0.09
AT	9.00	5.98	9.12	2.73	0.55	0.00
PL	17.24	18.84	15.05	7.81	3.31	0.00
PT	6.61	2.54	4.45	1.96	0.44	0.04
RO	5.58	7.38	6.47	1.76	0.46	0.25
SI	1.80	1.11	1.23	0.46	0.08	0.02
SK	2.21	1.99	4.43	1.30	0.15	0.00
FI	4.79	4.90	10.70	2.71	0.72	0.36
SE	8.67	7.20	11.53	4.00	0.37	0.00
UK	51.77	36.48	24.73	16.28	1.02	1.09

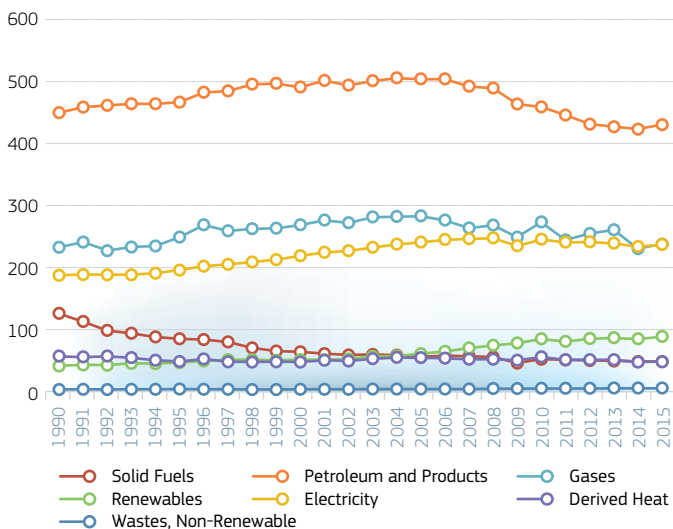
Source: Eurostat, May 2017
Methodology and Notes: See Appendix 13 – No2

2.5.4 Final Energy Consumption

BY SECTOR – EU-28 – 1990-2015 (Mtoe)



FINAL ENERGY CONSUMPTION – BY FUEL – 1990-2015 (Mtoe)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

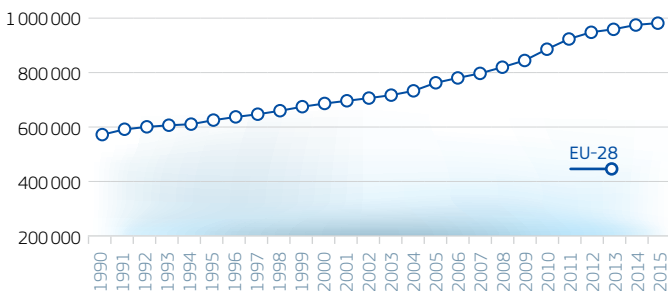
2.6 Electricity

2.6.1 Installed Electricity Capacity

TOTAL

MW	1995	2000	2005	2010	2014	2015
EU-28*	618490	681077	758023	883927	974965	981870
Index 1995	100%	110%	123%	143%	158%	159%
BE	14917	15685	16096	18690	20934	21146
BG	1975	11085	12260	10031	11390	10914
CZ	13803	15323	17406	20073	21920	21866
DK	10823	12316	13036	13438	13624	14005
DE	116226	118884	128612	162698	198416	204052
EE	1	2800	2559	2751	3030	2857
IE	4060	4711	6175	8019	9084	9557
EL	8942	10904	13306	15312	18895	18942
ES	45621	53924	76574	101788	106470	106901
FR	107616	114665	115755	124551	128942	129309
HR	2072	2079	3866	4121	4426	4798
IT	65923	75510	85498	106610	121747	116955
CY	690	988	1125	1560	1724	1756
LV	2068	2092	2166	2557	2924	2933
LT	5866	5716	4556	3570	4037	3587
LU	1250	1217	1682	1711	2022	2023
HU	7404	8282	8586	8993	8655	8579
MT	0	0	0	572	678	667
NL	19034	21062	21800	26688	31762	33866
AT	17395	17802	18898	21187	24048	24443
PL	29482	30559	32257	33360	35989	37322
PT	9384	10908	13374	18932	19125	19625
RO	5998	6120	18951	19912	23884	23830
SI	2518	2614	2992	3193	3453	3359
SK	7238	7454	8257	7873	8092	7782
FI	14434	16260	16468	15536	16245	15875
SE	33625	33724	33390	36454	38736	39712
UK	70125	78393	82378	93747	94713	95209

INSTALLED ELECTRICITY CAPACITY – TOTAL – 1990-2015 (MW)



* No complete EU-28 data available for 1990-2000.

Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.6.1 Installed Electricity Capacity

BY FUEL

MW	2015						
	Installed Electricity Capacity	Combustible Fuels	Hydro	Wind	Nuclear	Solar PV	Other Sources
EU-28	981 870	465 830	152 400	141 481	121 957	94 864	5 338
Share (%)	100.0%	47.4%	15.5%	14.4%	12.4%	9.7%	0.5%
BE	21 146	8 509	1 422	2 176	5 913	3 122	4
BG	10 914	3 991	3 219	700	1 975	1 029	0
CZ	21 866	12 960	2 260	281	4 290	2 075	0
DK	14 005	8 141	7	5 075	0	782	0
DE	204 052	96 967	11 399	44 670	10 799	39 786	431
EE	2 857	2 551	6	300	0	0	0
IE	9 557	6 586	529	2 440	0	2	0
EL	18 942	10 855	3 392	2 091	0	2 604	0
ES	106 901	49 350	20 053	22 943	7 399	4 856	2 300
FR	129 309	22 553	25 278	10 217	63 130	6 755	1 376
HR	4 798	2 124	2 208	418	0	48	0
IT	116 955	65 617	22 220	9 137	0	18 892	1 089
CY	1 756	1 522	0	158	0	76	0
LV	2 933	1 275	1 589	69	0	0	0
LT	3 587	2 180	877	436	0	69	25
LU	2 023	513	1 330	64	0	116	0
HU	8 579	6 011	57	329	2 000	168	14
MT	667	593	0	0	0	74	0
NL	33 866	28 401	37	3 391	485	1 515	37
AT	24 443	7 665	13 351	2 489	0	937	1
PL	37 322	29 956	2 370	4 886	0	108	2
PT	19 625	8 048	6 168	4 937	0	447	25
RO	23 830	11 233	6 730	3 130	1 411	1 326	0
SI	3 359	1 133	1 295	5	688	238	0
SK	7 782	2 754	2 522	3	1 940	533	30
FI	15 875	8 854	3 249	1 005	2 752	15	0
SE	39 712	7 751	16 329	5 840	9 688	104	0
UK	95 209	57 737	4 503	14 291	9 487	9 187	4

Source: Eurostat, May 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

2.6.1 Installed Electricity Capacity*

RENEWABLES

MW	2015						
	Total Renewables	Hydro	Wind	Solar PV	Solar Thermal	Geothermal	Tide Wave and Ocean
EU-28	392 113	152 400	141 481	94 864	2 302	822	244
Share (%)	39.9%	15.5%	14.4%	9.7%	0.2%	0.1%	0.0%
BE	6 720	1 422	2 176	3 122	0	0	0
BG	4 948	3 219	700	1 029	0	0	0
CZ	4 616	2 260	281	2 075	0	0	0
DK	5 864	7	5 075	782	0	0	0
DE	95 883	11 399	44 670	39 786	2	26	0
EE	306	6	300	0	0	0	0
IE	2 971	529	2 440	2	0	0	0
EL	8 087	3 392	2 091	2 604	0	0	0
ES	50 152	20 053	22 943	4 856	2 300	0	0
FR	42 492	25 278	10 217	6 755	0	2	240
HR	2 674	2 208	418	48	0	0	0
IT	51 017	22 220	9 137	18 892	0	768	0
CY	234	0	158	76	0	0	0
LV	1 658	1 589	69	0	0	0	0
LT	1 382	877	436	69	0	0	0
LU	1 510	1 330	64	116	0	0	0
HU	554	57	329	168	0	0	0
MT	74	0	0	74	0	0	0
NL	4 943	37	3 391	1 515	0	0	0
AT	16 778	13 351	2 489	937	0	1	0
PL	7 364	2 370	4 886	108	0	0	0
PT	11 577	6 168	4 937	447	0	25	0
RO	11 186	6 730	3 130	1 326	0	0	0
SI	1 538	1 295	5	238	0	0	0
SK	3 058	2 522	3	533	0	0	0
FI	4 269	3 249	1 005	15	0	0	0
SE	22 273	16 329	5 840	104	0	0	0
UK	27 985	4 503	14 291	9 187	0	0	4

* Net maximum capacity.

Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.6.2 Gross Electricity Generation

TOTAL

TWh	1995	2000	2005	2010	2014	2015
EU-28	2 743.6	3 035.8	3 325.8	3 366.1	3 190.8	3 234.3
Index 1995	100%	111%	121%	123%	116%	118%
BE	74.41	84.01	87.03	95.19	72.67	70.65
BG	41.79	40.92	44.37	46.65	47.49	49.23
CZ	60.85	73.47	82.58	85.90	86.15	83.89
DK	36.76	36.05	36.25	38.86	32.18	28.95
DE	537.28	576.54	622.58	632.98	627.80	646.89
EE	8.69	8.51	10.21	12.96	12.45	10.42
IE	17.86	23.98	25.97	28.35	26.09	28.39
EL	41.55	53.84	60.02	57.39	50.47	51.87
ES	167.09	224.47	294.08	301.53	278.75	281.02
FR	494.27	539.95	576.06	569.10	563.69	568.45
HR	9.28	11.28	13.16	14.90	13.55	11.40
IT	241.49	276.64	303.70	302.06	279.83	282.99
CY	2.50	3.37	4.38	5.32	4.35	4.53
LV	3.98	4.14	4.91	6.63	5.14	5.53
LT	13.90	11.43	14.78	5.75	4.40	4.93
LU	1.23	1.17	4.13	4.59	2.97	2.76
HU	34.02	35.19	35.76	37.37	29.39	30.34
MT	1.63	1.92	2.24	2.11	2.25	1.30
NL	81.17	89.63	99.92	119.27	103.42	110.07
AT	56.23	61.26	66.83	71.13	65.44	65.30
PL	139.01	145.18	156.94	157.66	159.06	164.94
PT	33.27	43.76	46.58	54.09	52.80	52.42
RO	59.27	51.93	59.41	60.98	65.68	66.30
SI	12.91	13.62	15.12	16.44	17.44	15.10
SK	26.77	31.16	31.46	27.86	27.40	26.90
FI	64.04	69.98	70.58	80.67	68.09	68.60
SE	148.35	145.27	158.44	148.56	153.66	162.06
UK	334.04	377.07	398.36	381.77	338.18	339.10

2.6.2 Gross Electricity Generation

BY FUEL

TWh	2015						
	Gross Electricity Generation	Solid Fuels	Renewables	Nuclear	Gases	Petroleum and Products	Wastes non-RES
EU-28	3234.3	791.5	965.8	857.1	529.9	61.1	23.2
Share (%)	100.0%	24.5%	29.9%	26.5%	16.4%	1.9%	0.7%
BE	70.65	2.21	15.57	26.10	24.85	0.21	1.25
BG	49.23	22.52	9.25	15.38	1.86	0.18	0.00
CZ	83.89	41.14	10.70	26.84	4.96	0.09	0.08
DK	28.95	7.11	18.96	0.00	1.82	0.31	0.75
DE	646.89	272.20	193.29	91.79	74.53	6.21	7.06
EE	10.42	8.04	1.50	0.00	0.62	0.13	0.13
IE	28.39	7.39	8.15	0.00	12.37	0.41	0.07
EL	51.87	22.11	14.90	0.00	9.09	5.66	0.11
ES	281.02	51.37	100.32	57.31	53.81	17.24	0.77
FR	568.45	9.65	94.32	437.43	22.32	2.16	2.25
HR	11.40	2.31	7.68	0.00	1.20	0.22	0.00
IT	282.99	43.20	110.34	0.00	113.05	13.38	2.43
CY	4.53	0.00	0.40	0.00	0.00	4.14	0.00
LV	5.53	0.00	2.78	0.00	2.76	0.00	0.00
LT	4.93	0.00	2.35	0.00	1.98	0.28	0.06
LU	2.76	0.00	1.86	0.00	0.83	0.00	0.07
HU	30.34	5.79	3.21	15.83	5.23	0.08	0.14
MT	1.30	0.00	0.10	0.00	0.00	1.20	0.00
NL	110.07	38.44	13.70	4.08	49.39	1.43	1.63
AT	65.30	2.98	50.78	0.00	9.88	0.86	0.78
PL	164.94	130.52	23.29	0.00	8.83	2.12	0.08
PT	52.42	14.73	25.51	0.00	10.56	1.31	0.30
RO	66.30	18.13	26.58	11.64	9.48	0.47	0.00
SI	15.10	4.39	4.64	5.65	0.40	0.02	0.01
SK	26.90	2.83	6.31	15.15	2.11	0.38	0.03
FI	68.60	8.21	30.53	23.25	5.77	0.21	0.39
SE	162.06	0.57	102.57	56.35	1.12	0.25	1.20
UK	339.10	75.63	86.29	70.35	101.12	2.13	3.58

Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.6.2 Gross Electricity Generation

RENEWABLES

TWh	2015						
	Renewables	Hydro	Wind	Biomass and Renewable	Solar	Geothermal	Tide, Wave and Ocean
EU-28	965.8	371.2	301.9	177.9	107.9	6.5	0.5
Share (%)	100.0%	38.4%	31.3%	18.4%	11.2%	0.7%	0.1%
BE	15.57	1.42	5.57	5.51	3.07	0.00	0.00
BG	9.25	6.15	1.45	0.27	1.38	0.00	0.00
CZ	10.70	3.07	0.57	4.79	2.26	0.00	0.00
DK	18.96	0.02	14.13	4.21	0.60	0.00	0.00
DE	193.29	24.90	79.21	50.32	38.73	0.13	0.00
EE	1.50	0.03	0.72	0.76	0.00	0.00	0.00
IE	8.15	1.10	6.57	0.48	0.00	0.00	0.00
EL	14.90	6.15	4.62	0.23	3.90	0.00	0.00
ES	100.32	31.37	49.33	5.76	13.86	0.00	0.00
FR	94.32	59.40	21.25	5.92	7.26	0.00	0.49
HR	7.68	6.56	0.80	0.27	0.06	0.00	0.00
IT	110.34	46.97	14.84	19.40	22.94	6.19	0.00
CY	0.40	0.00	0.22	0.05	0.13	0.00	0.00
LV	2.78	1.86	0.15	0.77	0.00	0.00	0.00
LT	2.35	1.02	0.81	0.45	0.07	0.00	0.00
LU	1.86	1.53	0.10	0.13	0.10	0.00	0.00
HU	3.21	0.23	0.69	2.16	0.12	0.00	0.00
MT	0.10	0.00	0.00	0.01	0.09	0.00	0.00
NL	13.70	0.09	7.55	4.93	1.12	0.00	0.00
AT	50.78	40.59	4.84	4.41	0.94	0.00	0.00
PL	23.29	2.44	10.86	9.94	0.06	0.00	0.00
PT	25.51	9.80	11.61	3.10	0.80	0.20	0.00
RO	26.58	17.01	7.06	0.52	1.98	0.00	0.00
SI	4.64	4.09	0.01	0.27	0.27	0.00	0.00
SK	6.31	4.14	0.01	1.66	0.51	0.00	0.00
FI	30.53	16.77	2.33	11.42	0.01	0.00	0.00
SE	102.57	75.44	16.27	10.77	0.10	0.00	0.00
UK	86.29	9.03	40.31	29.39	7.56	0.00	0.00

Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.6.2 Gross Electricity Generation

BY FUEL – EU-28

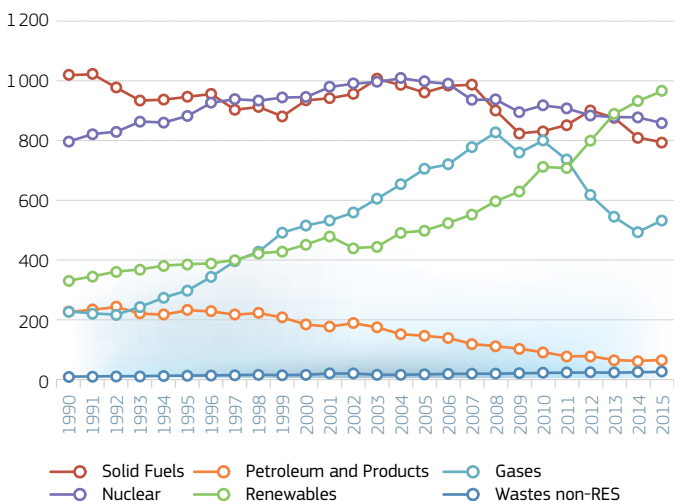
Share of Total (%)	Solid Fuels	Renewables	Nuclear	Gases	Petroleum and Products
1990	39.3	12.6	30.6	8.6	8.6
1991	38.7	13.0	31.1	8.2	8.8
1992	37.2	13.6	31.5	8.1	9.2
1993	35.5	13.9	32.8	9.1	8.3
1994	35.1	14.1	32.2	10.2	8.1
1995	34.5	13.9	32.1	10.7	8.4
1996	33.6	13.6	32.5	12.0	8.0
1997	31.6	13.9	32.8	13.8	7.5
1998	31.2	14.4	31.9	14.6	7.5
1999	29.8	14.4	31.9	16.6	6.9
2000	30.8	14.8	31.1	16.9	6.0
2001	30.2	15.3	31.4	17.0	5.6
2002	30.4	13.9	31.5	17.7	5.9
2003	31.1	13.6	30.8	18.7	5.3
2004	29.8	14.8	30.5	19.8	4.5
2005	28.9	14.9	30.0	21.2	4.3
2006	29.2	15.5	29.4	21.3	4.0
2007	29.1	16.2	27.6	23.0	3.4
2008	26.6	17.6	27.7	24.4	3.2
2009	25.5	19.5	27.7	23.5	3.1
2010	24.6	21.1	27.2	23.7	2.6
2011	25.8	21.4	27.5	22.3	2.2
2012	27.3	24.2	26.8	18.7	2.2
2013	26.8	27.2	26.8	16.6	1.9
2014	25.3	29.2	27.5	15.4	1.8
2015	24.5	29.9	26.5	16.4	1.9

Source: Eurostat, May 2017

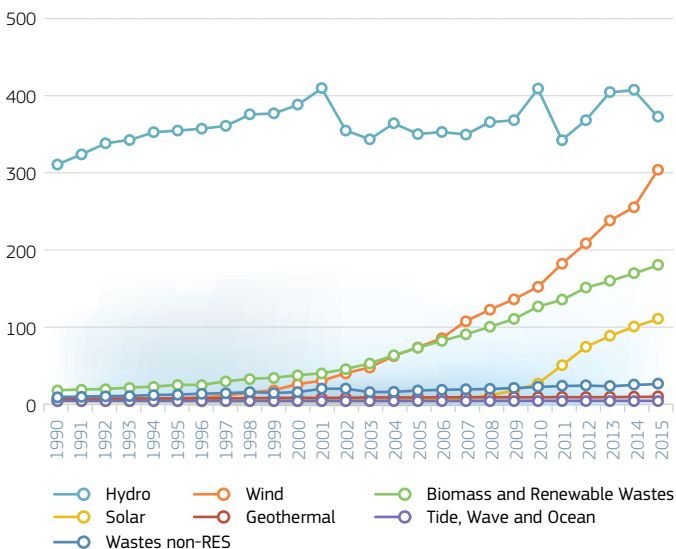
Methodology and Notes: See Appendix 13 – No 2

2.6.2 Gross Electricity Generation

BY FUEL – EU-28 – 1990-2015 (TWh)



GROSS ELECTRICITY GENERATION – EU-28 – RENEWABLES – 1990-2015 (TWh)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.6.3 Market Share of the Largest Electricity Producer

%	1999	2000	2005	2010	2013	2014	2015
BE	92.3	91.1	85.0	79.1	64.9	59.8	48.5
BG							
CZ	71.0	69.2	72.0	73.0	58.2	57.5	55.4
DK	40.0	36.0	33.0	46.0	41.0	36.6	33.0
DE	28.1	34.0	31.0	28.4	32.0	32.0	32.0
EE	93.0	91.0	92.0	89.0	87.0	84.8	79.8
IE	97.0	97.0	71.0	34.0	54.0	51.0	55.0
EL	98.0	97.0	97.0	85.1	67.0	71.5	70.7
ES	51.8	42.4	35.0	24.0	22.0	23.8	24.5
FR	93.8	90.2	89.1	86.5	83.8	86.8	85.7
HR			87.0	88.0	84.0	80.3	77.8
IT	71.1	46.7	38.6	28.0	27.0	29.0	27.0
CY	99.7	99.6	100.0	100.0	100.0	100.0	100.0
LV	96.5	95.8	92.7	88.0	79.8	54.8	57.4
LT	73.7	72.8	70.3	35.4	24.4	20.6	22.7
LU				85.4	58.4	61.3	43.8
HU	38.9	41.3	38.7	42.1	52.9	54.0	53.1
MT	100.0	100.0	100.0	100.0	100.0	100.0	100.0
NL							
AT	21.4	32.6					
PL	20.8	19.5	18.5	17.4	17.3	17.9	17.4
PT	57.8	58.5	53.9	47.2	43.9	46.5	42.5
RO			36.4	33.6	26.8	29.9	25.7
SI			50.1	56.3	57.1	52.4	51.3
SK	83.6	85.1	83.6	80.9	83.8	81.8	73.1
FI	26.0	23.3	23.0	26.6	25.3	25.2	25.9
SE	52.8	49.5	47.0	42.0	44.8	42.9	40.6
UK	21.0	20.6	20.5	21.0	29.3		

Source: Eurostat, May 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

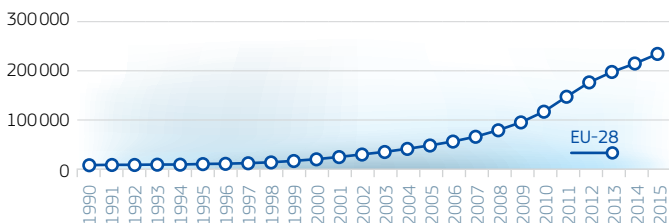
2.7 Solar and Wind Energy

2.7.1 Solar and Wind Energy – Cumulative Capacity

TOTAL

MW	1995	2000	2005	2010	2014	2015
EU-28	2479	12890	42697	114837	218224	238647
BE	5	14	169	1816	4971	5298
BG	0	0	8	513	1726	1729
CZ	0	1	23	1940	2346	2356
DK	599	2391	3131	3809	5493	5857
DE	1155	6209	20431	44734	77429	84458
EE	0	0	31	108	275	300
IE	6	119	517	1375	2213	2442
EL	27	226	492	1500	4574	4695
ES	105	2218	9978	25346	30062	30099
FR	5	45	703	6956	14722	16972
HR	0	0	6	79	372	466
IT	38	382	1669	9386	27277	28029
CY	0	0	1	89	211	234
LV	1	2	26	30	69	69
LT	0	0	1	133	357	505
LU	0	14	59	73	168	180
HU	0	0	17	295	406	497
MT	0	0	0	1	55	74
NL	252	460	1275	2327	3913	4906
AT	2	55	808	1135	2895	3426
PL	0	4	121	1108	3863	4994
PT	8	84	1066	3930	5271	5384
RO	0	0	1	389	4537	4456
SI	0	0	0	12	227	243
SK	0	0	5	22	536	536
FI	7	40	86	204	638	1020
SE	69	212	497	2030	5157	5944
UK	200	414	1576	5497	18461	23478

SOLAR AND WIND ENERGY – CUMULATIVE CAPACITY – TOTAL – 1990-2015 (MW)



Source: Eurostat, May 2017

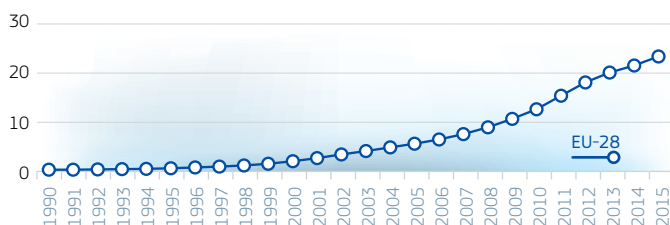
Methodology and Notes: See Appendix 13 – No 2

2.7.1 Solar and Wind Energy – Cumulative Capacity

SHARE OF TOTAL INSTALLED ELECTRICITY CAPACITY

%	1995	2000	2005	2010	2014	2015
EU-28	0.4	1.9	5.6	13.0	22.4	24.3
BE	0.03	0.09	1.05	9.72	23.75	25.05
BG	0.00	0.00	0.07	5.11	15.15	15.84
CZ	0.00	0.01	0.13	9.66	10.70	10.77
DK	5.53	19.41	24.02	28.34	40.32	41.82
DE	0.99	5.22	15.89	27.50	39.02	41.39
EE	0.00	0.00	1.21	3.93	9.08	10.50
IE	0.15	2.53	8.37	17.15	24.36	25.55
EL	0.30	2.07	3.70	9.80	24.21	24.79
ES	0.23	4.11	13.03	24.90	28.24	28.16
FR	0.00	0.04	0.61	5.58	11.42	13.13
HR	0.00	0.00	0.16	1.92	8.40	9.71
IT	0.06	0.51	1.95	8.80	22.40	23.97
CY	0.00	0.00	0.09	5.71	12.24	13.33
LV	0.05	0.10	1.20	1.17	2.36	2.35
LT	0.00	0.00	0.02	3.73	8.84	14.08
LU	0.00	1.15	3.51	4.27	8.31	8.90
HU	0.00	0.00	0.20	3.28	4.69	5.79
MT	0.00	0.00	0.00	0.17	8.11	11.09
NL	1.32	2.18	5.85	8.72	12.32	14.49
AT	0.01	0.31	4.28	5.36	12.04	14.02
PL	0.00	0.01	0.38	3.32	10.73	13.38
PT	0.09	0.77	7.97	20.76	27.56	27.43
RO	0.00	0.00	0.01	1.95	19.00	18.70
SI	0.00	0.00	0.00	0.38	6.57	7.23
SK	0.00	0.00	0.06	0.28	6.62	6.89
FI	0.05	0.25	0.52	1.31	3.93	6.43
SE	0.21	0.63	1.49	5.57	13.31	14.97
UK	0.29	0.53	1.91	5.86	19.49	24.66

SOLAR AND WIND ENERGY – CUMULATIVE CAPACITY – SHARE OF TOTAL – 1990-2015 (%)



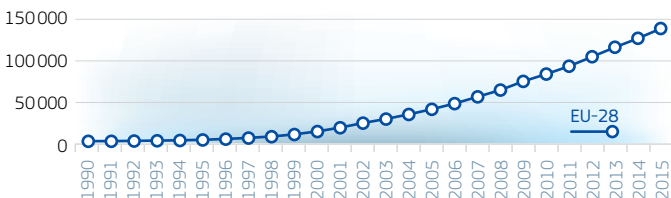
Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.7.2 Wind Cumulative Installed Capacity

TOTAL

MW	1995	2000	2005	2010	2014	2015
EU-28	2430	12711	40400	84566	129100	141481
BE	5	14	167	912	1944	2176
BG	0	0	8	488	700	700
CZ	0	1	22	213	278	281
DK	599	2390	3128	3802	4886	5075
DE	1137	6095	18375	27180	39193	44670
EE	0	0	31	108	275	300
IE	6	119	517	1374	2211	2440
EL	27	226	491	1298	1978	2091
ES	98	2206	9918	20693	22975	22943
FR	3	38	690	5912	9068	10217
HR	0	0	6	79	339	418
IT	22	363	1635	5794	8683	9137
CY	0	0	0	82	147	158
LV	1	2	26	30	69	69
LT	0	0	1	133	288	436
LU	0	14	35	44	58	64
HU	0	0	17	293	329	329
MT	0	0	0	0	0	0
NL	250	447	1224	2237	2865	3391
AT	1	50	778	981	2110	2489
PL	0	4	121	1108	3836	4886
PT	8	83	1064	3796	4856	4937
RO	0	0	1	389	3244	3130
SI	0	0	0	0	4	5
SK	0	0	5	3	3	3
FI	6	38	82	197	627	1005
SE	67	209	493	2019	5097	5840
UK	200	412	1565	5401	13037	14291

WIND CUMULATIVE INSTALLED CAPACITY – TOTAL –
1990-2015 (MW)

Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.7.2 Wind Cumulative Installed Capacity

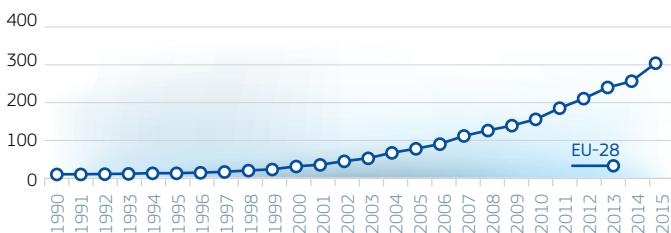
SHARE OF TOTAL INSTALLED ELECTRICITY CAPACITY

%	1995	2000	2005	2010	2014	2015
EU-28	0.4	1.9	5.3	9.6	13.2	14.4
BE	0.0	0.1	1.0	4.9	9.3	10.3
BG	0.0	0.0	0.1	4.9	6.1	6.4
CZ	0.0	0.0	0.1	1.1	1.3	1.3
DK	5.5	19.4	24.0	28.3	35.9	36.2
DE	1.0	5.1	14.3	16.7	19.8	21.9
EE	0.0	0.0	1.2	3.9	9.1	10.5
IE	0.1	2.5	8.4	17.1	24.3	25.5
EL	0.3	2.1	3.7	8.5	10.5	11.0
ES	0.2	4.1	13.0	20.3	21.6	21.5
FR	0.0	0.0	0.6	4.7	7.0	7.9
HR	0.0	0.0	0.2	1.9	7.7	8.7
IT	0.0	0.5	1.9	5.4	7.1	7.8
CY	0.0	0.0	0.0	5.3	8.5	9.0
LV	0.0	0.1	1.2	1.2	2.4	2.4
LT	0.0	0.0	0.0	3.7	7.1	12.2
LU	0.0	1.2	2.1	2.6	2.9	3.2
HU	0.0	0.0	0.2	3.3	3.8	3.8
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	1.3	2.1	5.6	8.4	9.0	10.0
AT	0.0	0.3	4.1	4.6	8.8	10.2
PL	0.0	0.0	0.4	3.3	10.7	13.1
PT	0.1	0.8	8.0	20.1	25.4	25.2
RO	0.0	0.0	0.0	2.0	13.6	13.1
SI	0.0	0.0	0.0	0.0	0.1	0.1
SK	0.0	0.0	0.1	0.0	0.0	0.0
FI	0.0	0.2	0.5	1.3	3.9	6.3
SE	0.2	0.6	1.5	5.5	13.2	14.7
UK	0.3	0.5	1.9	5.8	13.8	15.0

2.7.3 Wind Gross Electricity Production

TOTAL

TWh	1995	2000	2005	2010	2014	2015
EU-28	4.1	22.2	70.5	149.4	253.1	301.9
BE	0.0	0.0	0.2	1.3	4.6	5.6
BG	0.0	0.0	0.0	0.7	1.3	1.5
CZ	0.0	0.0	0.0	0.3	0.5	0.6
DK	1.2	4.2	6.6	7.8	13.1	14.1
DE	1.7	9.4	27.2	37.8	57.4	79.2
EE	0.0	0.0	0.1	0.3	0.6	0.7
IE	0.0	0.2	1.1	2.8	5.1	6.6
EL	0.0	0.5	1.3	2.7	3.7	4.6
ES	0.3	4.7	21.2	44.3	52.0	49.3
FR	0.0	0.0	1.0	9.9	17.2	21.2
HR	0.0	0.0	0.0	0.1	0.7	0.8
IT	0.0	0.6	2.3	9.1	15.2	14.8
CY	0.0	0.0	0.0	0.0	0.2	0.2
LV	0.0	0.0	0.0	0.0	0.1	0.1
LT	0.0	0.0	0.0	0.2	0.6	0.8
LU	0.0	0.0	0.1	0.1	0.1	0.1
HU	0.0	0.0	0.0	0.5	0.7	0.7
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	0.3	0.8	2.1	4.0	5.8	7.6
AT	0.0	0.1	1.3	2.1	3.8	4.8
PL	0.0	0.0	0.1	1.7	7.7	10.9
PT	0.0	0.2	1.8	9.2	12.1	11.6
RO	0.0	0.0	0.0	0.3	6.2	7.1
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	0.0	0.1	0.2	0.3	1.1	2.3
SE	0.1	0.5	0.9	3.5	11.2	16.3
UK	0.4	0.9	2.9	10.3	32.0	40.3

WIND GROSS ELECTRICITY PRODUCTION – TOTAL –
1990-2015 (TWh)

Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.7.4 Wind Penetration Level

IN TOTAL GROSS ELECTRICITY GENERATION

%	1995	2000	2005	2010	2014	2015
EU-28	0.1	0.7	2.1	4.4	7.9	9.3
BE	0.0	0.0	0.3	1.4	6.4	7.9
BG	0.0	0.0	0.0	1.5	2.8	2.9
CZ	0.0	0.0	0.0	0.4	0.6	0.7
DK	3.2	11.8	18.2	20.1	40.6	48.8
DE	0.3	1.6	4.4	6.0	9.1	12.2
EE	0.0	0.0	0.5	2.1	4.9	6.9
IE	0.1	1.0	4.3	9.9	19.7	23.2
EL	0.1	0.8	2.1	4.7	7.3	8.9
ES	0.2	2.1	7.2	14.7	18.7	17.6
FR	0.0	0.0	0.2	1.7	3.1	3.7
HR	0.0	0.0	0.1	0.9	5.4	7.0
IT	0.0	0.2	0.8	3.0	5.4	5.2
CY	0.0	0.0	0.0	0.6	4.2	4.9
LV	0.0	0.1	1.0	0.7	2.7	2.7
LT	0.0	0.0	0.0	3.9	14.5	16.4
LU	0.0	2.3	1.3	1.2	2.7	3.7
HU	0.0	0.0	0.0	1.4	2.2	2.3
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	0.4	0.9	2.1	3.3	5.6	6.9
AT	0.0	0.1	2.0	2.9	5.9	7.4
PL	0.0	0.0	0.1	1.1	4.8	6.6
PT	0.0	0.4	3.8	17.0	22.9	22.1
RO	0.0	0.0	0.0	0.5	9.4	10.7
SI	0.0	0.0	0.0	0.0	0.0	0.0
SK	0.0	0.0	0.0	0.0	0.0	0.0
FI	0.0	0.1	0.2	0.4	1.6	3.4
SE	0.1	0.3	0.6	2.4	7.3	10.0
UK	0.1	0.3	0.7	2.7	9.5	11.9

2.7.5 Wind Capacity Factor

ANNUAL AVERAGE

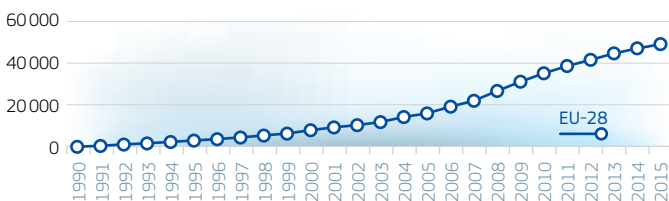
%	1995	2000	2005	2010	2014	2015
EU-28	19.1	19.9	19.9	20.1	22.4	24.3
BE	20.5	13.0	15.5	16.2	27.1	29.2
BG	0.0	0.0	7.1	15.9	21.7	23.7
CZ	0.0	11.4	10.9	17.9	19.6	23.3
DK	22.4	20.2	24.1	23.4	30.5	31.8
DE	17.2	17.5	16.9	15.9	16.7	20.2
EE	0.0	0.0	19.9	29.3	25.1	27.2
IE	30.4	23.4	24.5	23.4	26.5	30.7
EL	14.4	22.8	29.4	23.9	21.3	25.2
ES	31.4	24.4	24.4	24.4	25.8	24.5
FR	19.0	14.4	15.9	19.2	21.7	23.7
HR	0.0	0.0	19.0	20.1	24.6	21.7
IT	4.7	17.7	16.4	18.0	19.9	18.5
CY	0.0	0.0	0.0	4.3	14.1	16.0
LV	0.0	22.8	20.6	18.6	23.3	24.3
LT	0.0	0.0	22.8	19.2	25.3	21.2
LU	0.0	22.0	16.9	14.3	15.7	18.2
HU	0.0	0.0	6.7	20.8	22.8	24.0
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	14.5	21.2	19.3	20.4	23.1	25.4
AT	11.4	15.3	19.5	24.0	20.8	22.2
PL	0.0	14.3	12.7	17.1	22.8	25.4
PT	22.8	23.1	19.0	27.6	28.5	26.8
RO	0.0	0.0	0.0	9.0	21.8	25.7
SI	0.0	0.0	0.0	0.0	11.4	13.7
SK	0.0	0.0	13.7	22.8	22.8	22.8
FI	20.9	23.4	23.7	17.0	20.1	26.4
SE	16.9	24.9	21.7	19.8	25.1	31.8
UK	22.3	26.2	21.2	21.7	28.0	32.2

Source: Eurostat, May 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

2.7.6 Solar Collectors' Surface

1 000 m ²	1995	2000	2005	2010	2014	2015
EU-28	6543	11052	18291	35537	46251	48152
BE	36	41	77	371	615	661
BG	0	0	0	194	327	344
CZ	0	0	85	309	507	538
DK	144	243	286	480	810	957
DE	1166	3251	7099	14044	17987	18625
EE	0	0	0	0	0	0
IE	2	4	13	185	300	320
EL	2101	2941	3047	4100	4287	4390
ES	319	403	797	2373	3348	3591
FR	598	513	583	1447	2096	2171
HR	0	20	41	92	162	183
IT	174	271	680	2415	3538	3724
CY	0	0	730	909	993	1009
LV	0	0	0	0	0	0
LT	0	0	0	0	0	0
LU	0	0	6	29	52	56
HU	27	36	45	140	250	280
MT	0	0	0	40	50	51
NL	139	276	422	576	644	647
AT	1241	2202	3083	4441	5059	5059
PL	0	0	95	656	1730	1900
PT	200	238	289	752	1079	1121
RO	0	0	0	104	143	204
SI	0	0	0	178	236	239
SK	0	0	64	123	166	171
FI	7	10	16	31	45	50
SE	135	207	371	510	475	478
UK	254	396	462	1038	1352	1383

SOLAR COLLECTORS' SURFACE – TOTAL – 1990-2015 (1 000 m²)

Source: Eurostat, May 2017

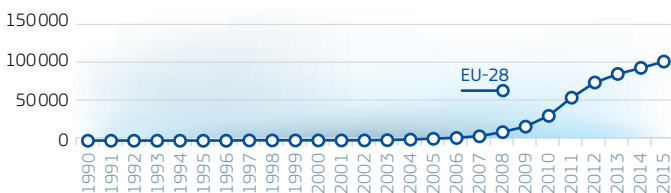
Methodology and Notes: See Appendix 13 – No 2

2.7.7 Solar Installed Capacity

TOTAL

MW	1995	2000	2005	2010	2014	2015
EU-28	49	179	2 297	30 271	89 124	97 166
BE	0	0	2	904	3 027	3 122
BG	0	0	0	25	1 026	1 029
CZ	0	0	1	1 727	2 068	2 075
DK	0	1	3	7	607	782
DE	18	114	2 056	17 554	38 236	39 788
EE	0	0	0	0	0	0
IE	0	0	0	1	2	2
EL	0	0	1	202	2 596	2 604
ES	7	12	60	4 653	7 087	7 156
FR	2	7	13	1 044	5 654	6 755
HR	0	0	0	0	33	48
IT	16	19	34	3 592	18 594	18 892
CY	0	0	1	7	64	76
LV	0	0	0	0	0	0
LT	0	0	0	0	69	69
LU	0	0	24	29	110	116
HU	0	0	0	2	77	168
MT	0	0	0	1	55	74
NL	2	13	51	90	1 048	1 515
AT	1	5	30	154	785	937
PL	0	0	0	0	27	108
PT	0	1	2	134	415	447
RO	0	0	0	0	1 293	1 326
SI	0	0	0	12	223	238
SK	0	0	0	19	533	533
FI	1	2	4	7	11	15
SE	2	3	4	11	60	104
UK	0	2	11	96	5 424	9 187

SOLAR INSTALLED CAPACITY – TOTAL – 1990-2015 (MW)



Source: Eurostat, May 2017

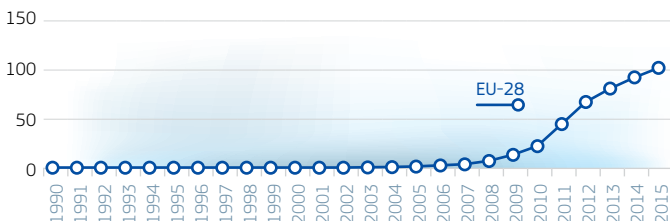
Methodology and Notes: See Appendix 13 – No 2

2.7.8 Solar Gross Electricity Production

TOTAL

TWh	1995	2000	2005	2010	2014	2015
EU-28	0.0	0.1	1.5	23.3	97.8	107.9
BE	0.0	0.0	0.0	0.6	2.9	3.1
BG	0.0	0.0	0.0	0.0	1.3	1.4
CZ	0.0	0.0	0.0	0.6	2.1	2.3
DK	0.0	0.0	0.0	0.0	0.6	0.6
DE	0.0	0.1	1.3	11.7	36.1	38.7
EE	0.0	0.0	0.0	0.0	0.0	0.0
IE	0.0	0.0	0.0	0.0	0.0	0.0
EL	0.0	0.0	0.0	0.2	3.8	3.9
ES	0.0	0.0	0.0	7.2	13.7	13.9
FR	0.0	0.0	0.0	0.6	5.9	7.3
HR	0.0	0.0	0.0	0.0	0.0	0.1
IT	0.0	0.0	0.0	1.9	22.3	22.9
CY	0.0	0.0	0.0	0.0	0.1	0.1
LV	0.0	0.0	0.0	0.0	0.0	0.0
LT	0.0	0.0	0.0	0.0	0.1	0.1
LU	0.0	0.0	0.0	0.0	0.1	0.1
HU	0.0	0.0	0.0	0.0	0.1	0.1
MT	0.0	0.0	0.0	0.0	0.1	0.1
NL	0.0	0.0	0.0	0.1	0.8	1.1
AT	0.0	0.0	0.0	0.1	0.8	0.9
PL	0.0	0.0	0.0	0.0	0.0	0.1
PT	0.0	0.0	0.0	0.2	0.6	0.8
RO	0.0	0.0	0.0	0.0	1.6	2.0
SI	0.0	0.0	0.0	0.0	0.3	0.3
SK	0.0	0.0	0.0	0.0	0.6	0.5
FI	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.1
UK	0.0	0.0	0.0	0.0	4.0	7.6

SOLAR GROSS ELECTRICITY PRODUCTION – TOTAL – 1990-2015 (TWh)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.7.9 Solar Penetration Level

IN TOTAL GROSS ELECTRICITY GENERATION

%	1995	2000	2005	2010	2014	2015
EU-28	0.0	0.0	0.0	0.7	3.1	3.3
BE	0.0	0.0	0.0	0.6	4.0	4.3
BG	0.0	0.0	0.0	0.0	2.6	2.8
CZ	0.0	0.0	0.0	0.7	2.5	2.7
DK	0.0	0.0	0.0	0.0	1.9	2.1
DE	0.0	0.0	0.2	1.9	5.7	6.0
EE	0.0	0.0	0.0	0.0	0.0	0.0
IE	0.0	0.0	0.0	0.0	0.0	0.0
EL	0.0	0.0	0.0	0.3	7.5	7.5
ES	0.0	0.0	0.0	2.4	4.9	4.9
FR	0.0	0.0	0.0	0.1	1.0	1.3
HR	0.0	0.0	0.0	0.0	0.3	0.5
IT	0.0	0.0	0.0	0.6	8.0	8.1
CY	0.0	0.0	0.0	0.1	1.9	2.8
LV	0.0	0.0	0.0	0.0	0.0	0.0
LT	0.0	0.0	0.0	0.0	1.7	1.5
LU	0.0	0.0	0.4	0.5	3.2	3.8
HU	0.0	0.0	0.0	0.0	0.2	0.4
MT	0.0	0.0	0.0	0.0	3.0	7.1
NL	0.0	0.0	0.0	0.0	0.8	1.0
AT	0.0	0.0	0.0	0.1	1.2	1.4
PL	0.0	0.0	0.0	0.0	0.0	0.0
PT	0.0	0.0	0.0	0.4	1.2	1.5
RO	0.0	0.0	0.0	0.0	2.5	3.0
SI	0.0	0.0	0.0	0.1	1.5	1.8
SK	0.0	0.0	0.0	0.1	2.2	1.9
FI	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.1
UK	0.0	0.0	0.0	0.0	1.2	2.2

2.8 CHP

2.8.1 CHP Electricity

GENERATION AND CAPACITY

	CHP Electricity Generation			CHP Electrical Capacity		
	TWh			GW		
	2013	2014	2015	2013	2014	2015
EU-28	378.5	331.1	362.9	113.4	119.3	119.7
BE	12.7	12.2	12.5	2.3	2.4	2.4
BG	3.7	3.0	2.9	1.2	0.9	1.1
CZ	12.0	11.8	11.8	4.6	4.6	4.6
DK	14.1	11.5	11.6	6.3	6.2	6.1
DE	78.7	74.8	78.8	27.3	37.2	37.1
EE	1.2	1.2	1.2	0.5	0.5	0.4
IE	2.0	2.0	2.1	0.3	0.3	0.3
EL	1.9	1.9	2.0	0.6	0.6	0.6
ES	24.1	23.3	22.7	3.4	3.9	3.5
FR	13.9	11.6	13.9	4.8	6.2	5.6
HR	1.7	0.9	0.8	0.7	0.7	0.6
IT	36.7	36.7	39.5	8.3	8.6	9.0
CY	0.1	0.1	0.0	0.0	0.0	0.0
LV	2.4	2.4	2.5	1.2	1.1	1.1
LT	1.7	1.5	1.5	1.2	1.1	1.0
LU	0.4	0.4	0.4	0.5	0.1	0.1
HU	3.9	3.8	4.1	1.7	2.3	1.6
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	34.8	30.0	29.8	9.4	9.2	9.2
AT	9.9	8.5	9.0	5.6	4.0	2.8
PL	26.1	24.1	26.5	8.3	8.6	8.6
PT	7.2	6.8	6.5	1.4	1.4	1.3
RO	6.6	6.1	5.6	2.1	1.8	1.8
SI	1.2	1.2	1.2	0.4	0.4	0.4
SK	22.2	-	21.1	4.4	-	3.7
FI	24.3	23.0	21.7	6.1	6.0	5.8
SE	15.6	12.1	13.7	4.8	5.0	4.9
UK	19.7	20.3	19.4	6.2	6.3	5.9

Source: Eurostat, July 2017

Methodology and Notes: See Appendix 13 – No 2

2.8.2 CHP Heat

PRODUCTION AND CAPACITY

	CHP Heat Production			CHP Heat Capacity*		
	PJ			GW		
	2013	2014	2015	2013	2014	2015
EU-28	2901.1	2767.9	2791.7	279.7	285.7	303.8
BE	27.1	107.4	104.4	5.3	5.5	5.1
BG	40.4	33.4	31.9	4.1	3.4	3.7
CZ	120.9	105.6	106.0	21.0	21.0	21.0
DK	104.6	91.1	93.3	9.7	9.6	9.5
DE	654.0	651.4	669.9	73.1	92.2	95.1
EE	12.6	12.7	12.5	1.4	1.4	1.3
IE	12.4	11.6	12.6	0.7	0.6	0.6
EL	10.5	10.1	10.9	0.8	0.8	0.7
ES	174.9	138.2	120.3	5.6	5.5	5.0
FR	150.7	132.0	154.9	12.1	13.7	14.1
HR	13.3	11.3	10.0	1.7	1.7	1.6
IT	212.8	202.5	213.2	16.3	19.8	14.2
CY	0.2	0.2	0.2	0.0	0.0	0.0
LV	11.3	11.8	12.4	3.3	1.3	1.2
LT	15.3	13.1	12.4	2.4	2.2	1.9
LU	3.4	2.5	2.4	0.9	0.2	0.2
HU	27.0	25.9	24.4	3.2	4.8	3.2
MT	0.0	0.0	0.0	0.0	0.0	0.0
NL	217.9	196.3	189.6	18.3	18.3	18.1
AT	110.8	102.5	105.9	9.2	8.9	8.6
PL	257.4	237.6	238.6	24.6	25.2	23.9
PT	68.4	69.3	59.3	4.8	4.6	4.3
RO	57.9	55.4	51.0	10.1	10.0	9.8
SI	10.8	10.2	10.4	0.7	0.7	0.7
SK	27.8	-	27.3	15.5	-	24.3
FI	251.2	247.6	242.4	15.8	15.4	15.2
SE	165.1	145.1	151.3	11.4	10.7	12.8
UK	142.5	143.3	124.2	7.7	8.2	7.6

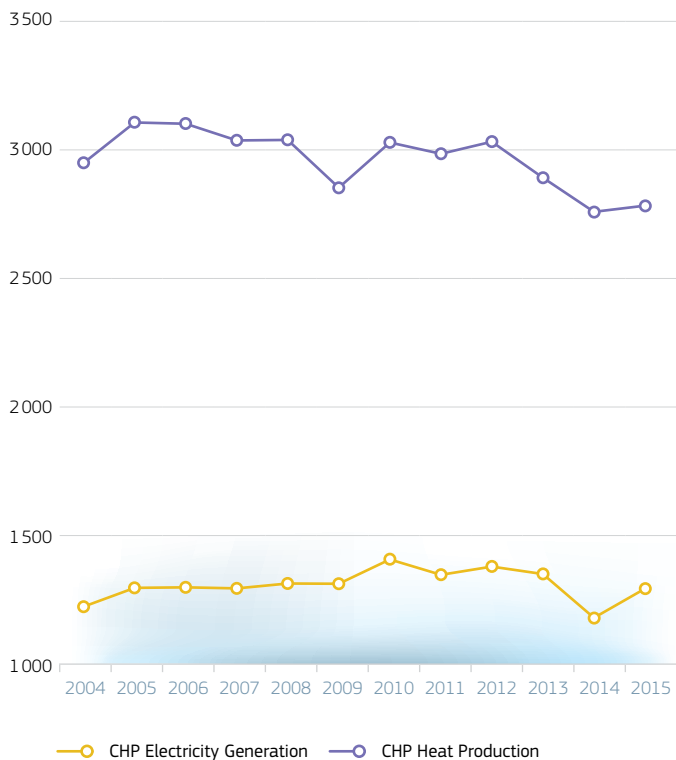
* Data on heat capacity before 2009 is not consistent across the EU-28.

Source: Eurostat, July 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

2.8.3 CHP Electricity and Heat

CHP ELECTRICITY AND HEAT GENERATION EU-28 (PJ – GCV)



2.9 Heat*

2.9.1 Gross Heat Generation

TOTAL

PJ (GCV)	1995	2000	2005	2010	2013	2014	2015
EU-28	2 286.7	2 187.3	2 593.2	2 703.6	2 504.3	2 324.7	2 370.4
Index 1995	100%	96%	113%	118%	110%	102%	104%
BE	10.0	23.2	22.4	38.3	38.6	36.3	37.8
BG	133.5	50.8	52.1	59.4	53.0	54.2	50.3
CZ	175.9	139.2	139.2	148.6	137.3	119.7	121.3
DK	119.1	119.2	129.0	152.1	135.8	122.2	128.1
DE	416.6	315.9	494.0	515.2	488.3	438.3	457.6
EE	30.7	27.0	26.8	25.5	23.0	21.8	21.2
IE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EL	0.0	1.2	2.0	1.9	1.7	2.1	2.1
ES	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FR	23.0	135.5	178.3	160.9	138.0	122.6	135.9
HR	13.2	11.5	13.3	12.5	11.7	10.1	11.1
IT	0.0	0.0	193.1	205.3	216.4	206.0	216.9
CY	0.0	0.0	0.0	0.0	0.0	0.0	0.1
LV	46.1	31.9	31.1	28.7	26.2	25.7	25.5
LT	66.9	48.2	49.9	48.8	43.6	43.3	41.5
LU	0.0	0.5	3.2	3.1	3.3	2.5	2.3
HU	61.3	69.2	63.6	53.0	49.0	48.0	52.0
MT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NL	130.1	172.4	178.5	159.9	150.1	147.2	139.3
AT	39.2	47.9	58.9	83.9	88.4	79.9	83.9
PL	420.8	340.7	336.3	335.8	302.3	276.9	281.4
PT	1.5	5.6	13.7	21.1	25.6	21.4	19.6
RO	287.0	190.8	127.7	99.1	84.8	78.0	76.6
SI	8.9	9.4	10.1	9.8	9.4	8.2	8.7
SK	42.1	36.8	52.5	48.6	42.5	34.8	36.7
FI	97.7	150.6	179.3	211.0	188.4	185.0	177.6
SE	163.1	157.9	181.1	224.2	190.1	179.9	183.5
UK	0.0	102.1	57.2	57.0	56.4	60.5	59.6

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

Source: Eurostat, May 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

2.9.1 Gross Heat Generation

BY FUEL

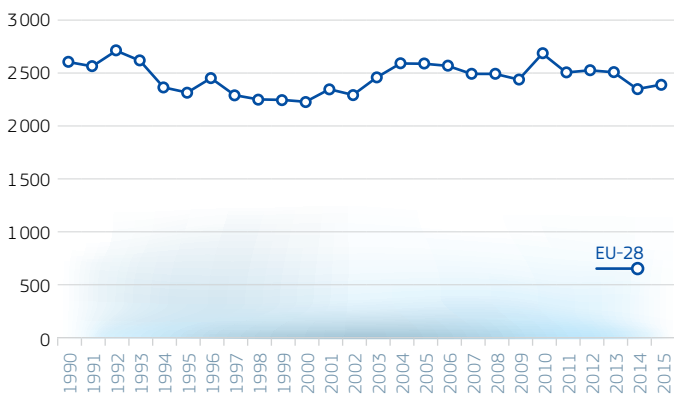
	2015						
	Gross Heat Generation	Gases	Solid Fuels	Renewables	Petroleum and Products	Wastes non-RES	Nuclear
PJ (GCV)							
EU-28	2 370.4	914.5	624.6	543.3	104.3	112.8	4.3
Share (%)	100.0%	38.6%	26.3%	22.9%	4.4%	4.8%	0.2%
BE	37.8	23.6	0.0	2.0	0.5	1.6	0.0
BG	50.3	23.1	19.2	0.5	5.3	0.0	0.6
CZ	121.3	37.2	70.2	8.6	1.1	1.4	0.9
DK	128.1	23.6	26.0	61.3	1.4	12.3	0.0
DE	457.6	190.7	150.7	64.8	4.9	37.8	0.0
EE	21.2	7.3	3.2	9.1	0.6	1.0	0.0
IE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EL	2.1	0.0	2.1	0.0	0.0	0.0	0.0
ES	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FR	135.9	58.2	7.6	47.7	9.4	12.4	0.0
HR	11.1	9.2	0.0	0.8	1.1	0.0	0.0
IT	216.9	139.7	1.9	37.9	32.7	4.7	0.0
CY	0.1	0.0	0.0	0.1	0.0	0.0	0.0
LV	25.5	16.0	0.1	9.3	0.0	0.0	0.0
LT	41.5	11.5	0.1	19.2	0.5	0.5	0.0
LU	2.3	1.7	0.0	0.6	0.0	0.0	0.0
HU	52.0	40.3	1.4	6.8	0.3	0.8	0.8
MT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NL	139.3	91.7	7.9	13.1	17.1	9.6	0.0
AT	83.9	31.7	3.5	37.8	4.8	6.1	0.0
PL	281.4	34.2	228.9	12.9	3.4	0.7	0.0
PT	19.6	19.1	0.0	0.0	0.4	0.0	0.0
RO	76.6	44.8	24.1	3.3	4.5	0.0	0.0
SI	8.7	2.0	4.9	1.5	0.1	0.1	0.0
SK	36.7	17.8	6.7	5.6	4.6	0.0	2.0
FI	177.6	27.9	54.3	74.1	7.4	5.0	0.0
SE	183.5	10.2	8.5	125.6	2.6	18.2	0.0
UK	59.6	53.2	3.3	0.8	1.6	0.7	0.0

Source: Eurostat, May 2017

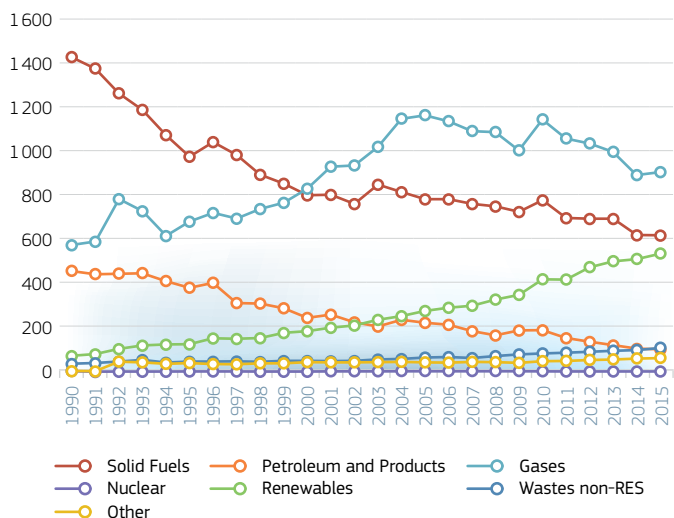
Methodology and Notes: See Appendix 13 – No 2

2.9.1 Gross Heat Generation

TOTAL – EU-28 – 1990-2015 (PJ – GCV)



GROSS HEAT GENERATION – BY FUEL – 1990-2015 (PJ – GCV)



Source: Eurostat, May 2017
 Methodology and Notes: See Appendix 13 – No 2

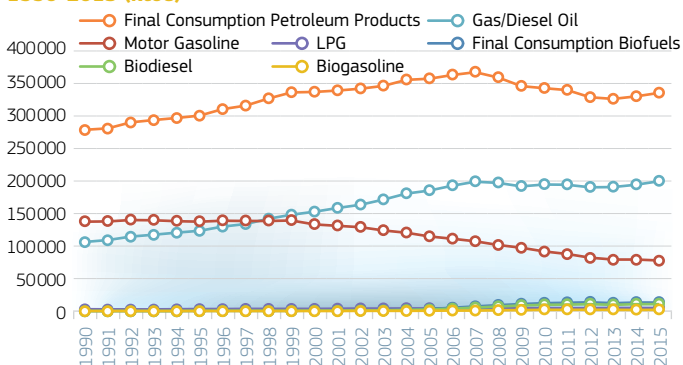
2.10 Transport

2.10.1 Fuels Final Consumption

PETROLEUM PRODUCTS AND BIOFUELS – EU-28

ktoe	Final Consumption Petroleum Products	Gas/Diesel Oil	Motor Gasoline	LPG	Final Consumption Biofuels	Biodiesel	Biogasoline
1990	278520	106291	138227	2707	5.7	5.7	0.0
1991	280700	108995	138709	2629	6.4	6.4	0.0
1992	290092	114516	140943	2488	21.9	15.0	5.1
1993	293578	117452	140419	2616	51.8	24.8	24.3
1994	296714	120485	138994	2792	138.8	111.1	25.0
1995	300387	123436	138159	3046	216.2	187.4	24.3
1996	310455	130056	139720	3182	317.2	273.7	39.0
1997	316052	133918	139232	3470	432.3	368.3	55.0
1998	327291	142150	139526	3552	408.3	335.0	63.4
1999	336595	148388	140127	3531	455.3	383.2	59.5
2000	337134	153117	134043	3653	709.0	636.4	58.2
2001	339505	158754	131701	3872	835.6	752.3	65.3
2002	342372	163945	129676	4132	1109.3	929.6	158.1
2003	346769	171738	124667	4292	1420.3	1168.5	240.8
2004	355999	181161	120828	4632	1927.0	1603.4	304.4
2005	357872	186031	115318	4775	3198.0	2469.9	573.4
2006	363630	193613	111416	4937	5365.0	3898.2	876.3
2007	367825	199700	107600	4898	7592.8	5807.3	1162.6
2008	359781	197894	101750	5050	9753.5	7693.2	1800.4
2009	346185	192289	97502	5267	11553.8	9258.3	2238.6
2010	343116	195221	91755	5312	13104.6	10261.7	2804.6
2011	340230	194911	87891	5510	13608.2	10731.5	2864.3
2012	329030	191104	81987	5478	14307.2	11473.5	2822.0
2013	326363	191310	79207	5787	13007.7	10328.3	2674.7
2014	330254	195017	78975	5839	14062.6	11397.3	2656.9
2015	335867	200266	77449	5890	14030.0	11345.3	2680.2

EU-28 – FUELS CONSUMPTION IN THE TRANSPORT SECTOR – 1990-2015 (ktoe)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

2.10.2 Biofuels

BY FUEL – EU-28

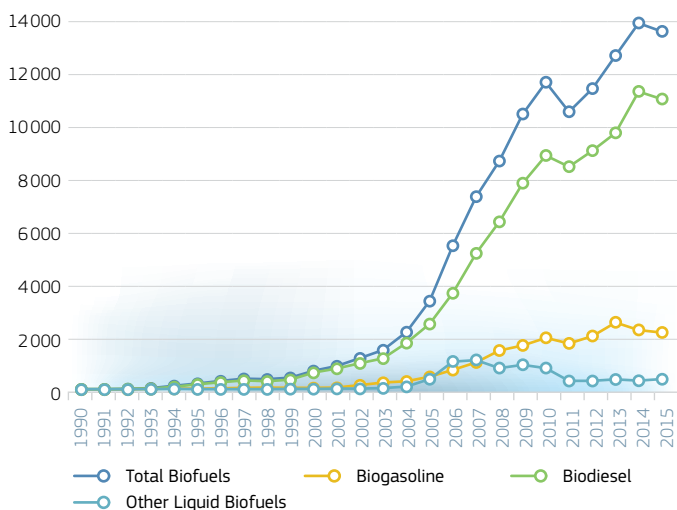
	Production			Share in Transport Fuels		
	Total Biofuels	Biodiesel	Biogasoline	Total Biofuels	of Biogasoline in Motor Gasoline	of Biodiesel in Gas/Diesel Oil
	ktoe			%		
1990	6	6	0	0.0%	0.0%	0.0%
1991	7	7	0	0.0%	0.0%	0.0%
1992	20	16	2	0.0%	0.0%	0.0%
1993	48	25	18	0.0%	0.0%	0.0%
1994	135	95	25	0.0%	0.0%	0.1%
1995	222	188	24	0.1%	0.0%	0.2%
1996	313	268	39	0.1%	0.0%	0.2%
1997	401	338	53	0.1%	0.0%	0.3%
1998	383	310	63	0.1%	0.0%	0.2%
1999	441	369	58	0.1%	0.0%	0.3%
2000	709	634	59	0.2%	0.0%	0.4%
2001	886	789	70	0.2%	0.0%	0.5%
2002	1 186	997	159	0.3%	0.1%	0.6%
2003	1 496	1 183	263	0.4%	0.2%	0.7%
2004	2 191	1 772	311	0.5%	0.3%	0.9%
2005	3 373	2 499	480	0.9%	0.5%	1.3%
2006	5 486	3 674	741	1.5%	0.8%	2.0%
2007	7 362	5 199	1 036	2.1%	1.1%	2.8%
2008	8 716	6 401	1 492	2.7%	1.7%	3.7%
2009	10 510	7 876	1 688	3.3%	2.2%	4.6%
2010	11 725	8 931	1 972	3.8%	3.0%	5.0%
2011	10 593	8 504	1 763	4.0%	3.2%	5.2%
2012	11 482	9 111	2 046	4.3%	3.3%	5.7%
2013	12 743	9 793	2 564	4.0%	3.3%	5.1%
2014	13 982	11 370	2 274	4.3%	3.3%	5.5%
2015	13 660	11 085	2 177	4.2%	3.3%	5.4%

Source: Eurostat, May 2017

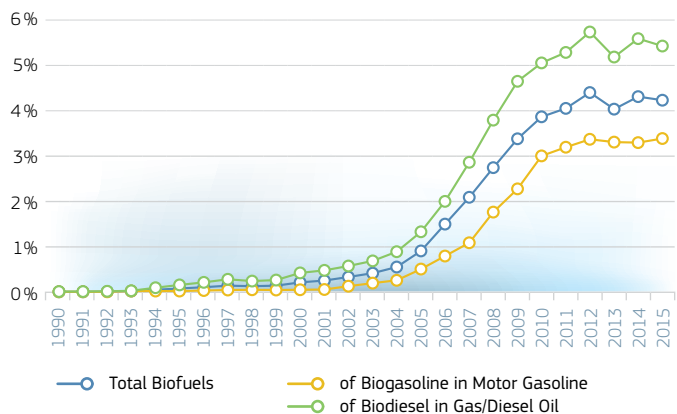
Methodology and Notes: See Appendix 13 – No 2

2.10.2 Biofuels

PRODUCTION BIOFUELS – EU-28 – 1990-2015 (ktoe)



BIOFUELS SHARE IN TRANSPORT FUELS – EU-28 – 1990-2015 (%)



Source: Eurostat, May 2017

Methodology and Notes: See Appendix 13 – No 2

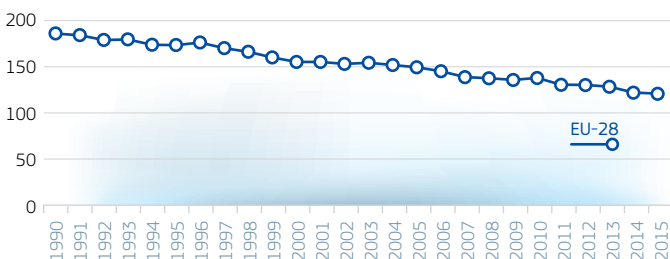
2.11 Energy Efficiency

2.11.1 Energy Intensity

ALL FUELS

toe/M€ '2010	1995	2000	2005	2010	2014	2015
EU-28	174	155	149	138	122	120
Index 1995	100%	89%	86%	79%	70%	69%
BE	199	190	173	167	142	141
BG	947	759	614	465	445	448
CZ	401	362	328	291	261	251
DK	104	88	81	82	66	65
DE	159	145	141	129	114	113
EE	696	466	374	418	388	358
IE	141	116	93	91	75	62
EL	150	149	137	127	132	133
ES	144	142	141	121	113	114
FR	158	145	144	134	120	120
HR	263	239	223	209	190	194
IT	115	112	117	111	98	100
CY	166	169	149	142	128	129
LV	484	315	252	260	216	207
LT	592	386	330	242	202	205
LU	144	119	135	116	94	89
HU	377	314	278	271	228	234
MT	175	149	163	142	114	91
NL	168	141	142	136	119	118
AT	124	114	124	116	106	107
PL	519	360	322	278	233	227
PT	151	151	157	135	131	134
RO	551	442	357	282	234	227
SI	268	231	220	202	184	178
SK	503	437	355	264	220	215
FI	238	205	192	198	186	177
SE	205	163	149	138	123	111
UK	166	147	130	116	96	94

ENERGY INTENSITY – ALL FUELS – 1990-2015 (toe/M€ '2010)

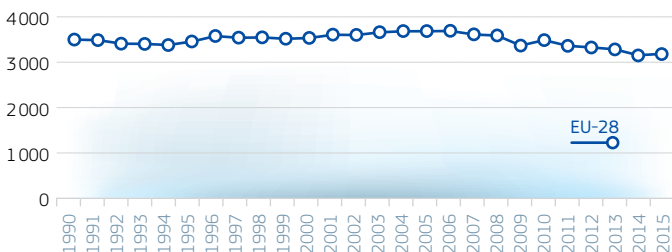


Source: Eurostat, DG Economic and Financial Affairs, June 2017
 Methodology and Notes: See Appendix 13 – No 2

2.11.2 Energy Consumption per Capita

GROSS INLAND CONSUMPTION – ALL FUELS

kgoe/cap	1995	2000	2005	2010	2014	2015
EU-28	3476	3551	3702	3506	3171	3201
Index 1995	100%	102%	106%	101%	91%	92%
BE	5314	5792	5654	5618	4789	4825
BG	2692	2261	2569	2395	2449	2570
CZ	4059	4025	4454	4342	4018	4027
DK	3873	3703	3614	3621	2986	2962
DE	4190	4166	4145	4065	3878	3870
EE	3815	3549	4132	4613	5074	4757
IE	3076	3819	3713	3334	2945	3063
EL	2265	2626	2863	2583	2230	2252
ES	2575	3055	3331	2802	2509	2614
FR	4076	4254	4403	4128	3768	3799
HR	1686	1872	2269	2191	1930	2018
IT	2846	3061	3284	3006	2485	2569
CY	3045	3495	3464	3345	2598	2682
LV	1849	1622	2041	2183	2224	2205
LT	2371	2011	2596	2160	2275	2366
LU	8194	8427	10407	9244	7681	7420
HU	2533	2475	2735	2656	2411	2557
MT	2006	2060	2414	2268	2083	1761
NL	4896	4918	5158	5175	4537	4589
AT	3413	3627	4161	4106	3817	3877
PL	2562	2317	2416	2648	2481	2511
PT	2062	2467	2618	2297	2118	2217
RO	2039	1632	1834	1764	1612	1631
SI	3052	3245	3667	3584	3228	3189
SK	3308	3390	3542	3312	2988	3030
FI	5759	6267	6589	6934	6378	6059
SE	5838	5518	5659	5437	4998	4665
UK	3836	3922	3891	3407	2948	2940

ENERGY CONSUMPTION PER CAPITA – ALL FUELS –
1990-2015 (kgoe/cap)

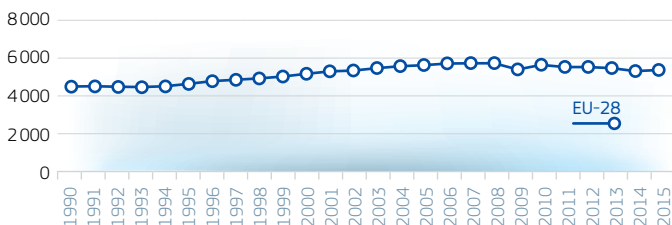
Source: Eurostat, June 2017

Methodology and Notes: See Appendix 13 – No 2

2.11.3 Final Electricity Consumption per Capita

ALL FUELS

kWh/cap	1995	2000	2005	2010	2014	2015
EU-28	4685	5189	5630	5642	5331	5390
Index 1995	100%	111%	120%	120%	114%	115%
BE	6757	7573	7678	7686	7258	7272
BG	3404	2961	3345	3652	3819	3933
CZ	4653	4804	5421	5183	5082	5169
DK	5922	6089	6184	5792	5425	5424
DE	5534	5884	6330	6509	6350	6339
EE	3146	3579	4445	5181	5248	5211
IE	4128	5371	5923	5588	5241	5416
EL	3235	4005	4640	4777	4530	4677
ES	3555	4657	5595	5266	4878	4995
FR	5780	6357	6735	6868	6291	6391
HR	2129	2631	3344	3686	3493	3631
IT	4192	4795	5199	5057	4631	4729
CY	3444	4339	5402	5960	4621	4830
LV	1786	1880	2547	2931	3289	3253
LT	1744	1764	2377	2652	3138	3198
LU	12316	13319	13334	13132	11247	11051
HU	2684	2880	3203	3416	3517	3672
MT	3345	4031	4614	4406	4713	4924
NL	5245	6020	6419	6516	6039	6101
AT	5881	6441	7001	7222	7133	7091
PL	2325	2563	2751	3122	3297	3363
PT	2878	3744	4414	4718	4334	4416
RO	1601	1511	1817	2036	2101	2166
SI	4696	5293	6379	5835	6045	6199
SK	4057	4077	4253	4477	4460	4495
FI	12791	14636	15420	15603	14518	14340
SE	14129	14526	14504	14048	12669	12810
UK	5086	5611	5797	5262	4709	4668

FINAL ELECTRICITY CONSUMPTION PER CAPITA – ALL FUELS –
1990-2015 (kWh/cap)

Source: Eurostat, June 2017

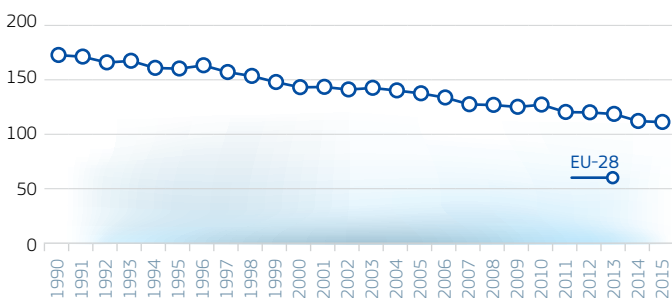
Methodology and Notes: See Appendix 13 – No 2

2.11.4 Primary Energy Intensity

ALL FUELS

toe/M€ '2010	1995	2000	2005	2010	2014	2015
EU-28	162	145	140	129	114	113
Index 1995	100%	89%	86%	80%	70%	70%
BE	177	168	151	147	119	119
BG	896	719	588	454	433	434
CZ	378	343	306	272	243	236
DK	102	86	80	81	65	64
DE	148	135	131	120	106	105
EE	674	450	359	412	381	352
IE	134	110	90	89	74	61
EL	147	145	133	122	128	129
ES	133	132	133	114	109	110
FR	147	136	135	127	113	114
HR	236	220	207	196	177	182
IT	108	107	111	105	93	96
CY	161	163	145	138	127	127
LV	480	309	247	256	211	201
LT	555	349	302	219	172	172
LU	142	117	134	115	93	88
HU	353	295	256	250	210	216
MT	175	149	159	141	114	90
NL	144	119	116	112	97	99
AT	118	108	117	110	99	101
PL	499	342	306	265	221	214
PT	136	137	143	125	122	126
RO	536	419	335	271	223	219
SI	263	223	211	197	180	174
SK	477	404	331	249	207	201
FI	229	198	186	192	180	171
SE	197	157	143	132	118	107
UK	157	140	124	112	92	90

PRIMARY ENERGY INTENSITY – ALL FUELS – 1990-2015 (toe/M€ '2010)

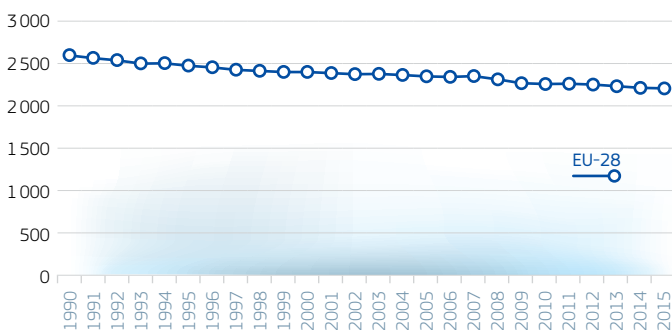


Source: Eurostat, DG Economic and Financial Affairs, June 2017
 Methodology and Notes: See Appendix 13 – No 2

2.11.5 Carbon Intensity

ALL FUELS

kg CO ₂ /toe	1995	2000	2005	2010	2014	2015
EU-28	2508	2415	2353	2241	2186	2181
Index 1995	100%	96%	94%	89%	87%	87%
BE	2230	2030	1933	1716	1707	1739
BG	2545	2442	2574	2701	2564	2625
CZ	3148	3083	2787	2599	2473	2485
DK	2965	2735	2696	2514	2312	2178
DE	2773	2666	2580	2555	2596	2579
EE	3252	3038	3013	3004	2720	2439
IE	3304	3224	3287	2881	2839	2854
EL	3267	3311	3402	3180	3106	2967
ES	2609	2485	2515	2143	2159	2222
FR	1674	1648	1577	1501	1391	1392
HR	2185	2369	2418	2279	2214	2143
IT	2760	2696	2602	2401	2329	2321
CY	3275	3047	3119	3026	3115	3032
LV	1940	1854	1648	1825	1603	1637
LT	1725	1660	1607	2001	1955	1915
LU	2919	2642	2785	2693	2615	2563
HU	2374	2342	2220	1990	1871	1878
MT	3367	1915	1823	1232	1342	919
NL	2096	2001	1895	1943	1900	1966
AT	2415	2342	2381	2174	2037	2070
PL	3658	3574	3485	3306	3274	3268
PT	2669	2617	2552	2240	2244	2341
RO	2723	2548	2550	2311	2414	2446
SI	2520	2403	2313	2234	2025	2059
SK	2530	2257	2254	2166	2074	2068
FI	1992	1759	1669	1761	1426	1387
SE	1157	1128	1056	1046	912	962
UK	2568	2526	2521	2486	2406	2310

CARBON INTENSITY – ALL FUELS – 1990-2015 (kg CO₂/toe)

Sources: EEA/UNFCCC, Eurostat – June 2017

Methodology and Notes: See Appendix 13 – No 2

2.12 RES Indicators

2.12.1 RES Shares*

OVERALL AND HEATING & COOLING

%	Overall RES with Aviation Cap**				RES-H&C – Heating and Cooling			
	2005	2010	2014	2015	2005	2010	2014	2015
EU-28	9.0	12.9	16.1	16.7	10.9	14.9	18.1	18.6
BE	2.3	5.7	8.0	7.9	3.4	6.1	7.7	7.6
BG	9.4	14.1	18.0	18.2	14.3	24.4	28.3	28.6
CZ	7.1	10.5	15.1	15.1	10.9	14.1	19.6	19.8
DK	16.0	22.1	29.3	30.8	22.8	31.0	37.9	39.6
DE	6.7	10.5	13.8	14.6	6.8	9.8	12.2	12.9
EE	17.5	24.6	26.3	28.6	32.2	43.3	45.2	49.6
IE	2.9	5.6	8.7	9.2	3.5	4.5	6.6	6.4
EL	7.0	9.8	15.3	15.4	12.8	17.9	26.9	25.9
ES	8.4	13.8	16.1	16.2	9.4	12.6	15.7	16.8
FR	9.5	12.5	14.7	15.2	12.2	15.8	18.8	19.8
HR	23.8	25.1	27.9	29.0	30.0	32.8	36.2	38.6
IT	7.5	13.0	17.1	17.5	8.2	15.6	18.9	19.2
CY	3.1	6.0	8.9	9.4	10.0	18.2	21.6	22.5
LV	32.3	30.4	38.7	37.6	42.7	40.7	52.2	51.8
LT	16.8	19.6	23.6	25.8	29.3	32.5	40.6	46.1
LU	1.4	2.9	4.5	5.0	3.6	4.7	7.2	6.9
HU	4.5	12.8	14.6	14.5	6.0	18.1	21.2	21.3
MT	0.2	1.0	4.7	5.0	2.2	7.8	14.5	14.1
NL	2.5	3.9	5.5	5.8	2.4	3.1	5.2	5.5
AT	23.9	30.4	32.8	33.0	22.3	29.5	32.0	32.0
PL	6.9	9.3	11.5	11.8	10.2	11.7	14.0	14.3
PT	19.5	24.2	27.0	28.0	32.1	33.9	34.0	33.4
RO	17.3	23.4	24.8	24.8	18.0	27.2	26.7	25.9
SI	16.0	20.4	21.5	22.0	18.9	28.1	32.4	34.1
SK	6.4	9.1	11.7	12.9	5.0	7.9	8.9	10.8
FI	28.8	32.4	38.7	39.3	39.1	44.2	51.9	52.8
SE	40.6	47.2	52.5	53.9	51.9	60.9	68.0	68.6
UK	1.3	3.7	7.1	8.2	0.8	2.7	4.7	5.5

* Of the Gross Final Energy.

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

Source: Eurostat, April 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

2.12.1 RES Shares*

ELECTRICITY AND TRANSPORT

%	RES-E – Electricity Generation				RES-T – Transport**			
	2005	2010	2014	2015	2005	2010	2014	2015
EU-28	14.8	19.7	27.5	28.8	1.8	5.2	6.5	6.7
BE	2.4	7.1	13.4	15.4	0.6	4.7	5.7	3.8
BG	9.3	12.7	18.9	19.1	0.8	1.4	5.8	6.5
CZ	3.7	7.5	13.9	14.1	0.9	5.1	6.9	6.5
DK	24.6	32.7	48.5	51.3	0.4	1.1	6.7	6.7
DE	10.5	18.1	28.2	30.7	4.0	6.4	7.3	6.8
EE	1.1	10.4	14.1	15.1	0.2	0.4	0.4	0.4
IE	7.2	14.6	22.9	25.2	0.1	2.4	5.8	6.5
EL	8.2	12.3	21.9	22.1	0.1	1.9	1.3	1.4
ES	19.1	29.8	37.8	36.9	1.3	5.0	0.8	1.7
FR	13.7	14.8	18.3	18.8	2.1	6.5	8.4	8.5
HR	35.6	37.6	45.3	45.4	1.0	1.1	4.1	3.5
IT	16.3	20.1	33.4	33.5	1.0	4.8	5.0	6.4
CY	0.0	1.4	7.4	8.4	0.0	2.0	2.7	2.5
LV	43.0	42.1	51.1	52.2	2.4	4.0	4.1	3.9
LT	3.8	7.4	13.7	15.5	0.6	3.8	4.3	4.6
LU	3.2	3.8	5.9	6.2	0.1	2.1	5.4	6.5
HU	4.4	7.1	7.3	7.3	0.9	6.0	6.9	6.2
MT	0.0	0.0	3.3	4.2	0.0	0.0	4.6	4.7
NL	6.3	9.6	10.0	11.1	0.5	2.6	6.2	5.3
AT	62.0	65.7	70.1	70.3	4.8	10.9	10.9	11.4
PL	2.7	6.6	12.4	13.4	1.6	6.6	6.2	6.4
PT	27.7	40.7	52.1	52.6	0.5	5.6	3.7	7.4
RO	26.9	30.4	41.7	43.2	1.6	3.8	4.7	5.5
SI	28.7	32.2	33.9	32.7	0.8	3.1	2.9	2.2
SK	15.7	17.8	22.9	22.7	1.6	5.3	7.6	8.5
FI	26.9	27.7	31.4	32.5	0.9	4.4	22.0	22.0
SE	50.9	56.0	63.2	65.8	6.2	9.2	21.1	24.0
UK	4.1	7.4	17.9	22.4	0.5	3.3	5.3	4.4

* Of the Gross Final Energy.

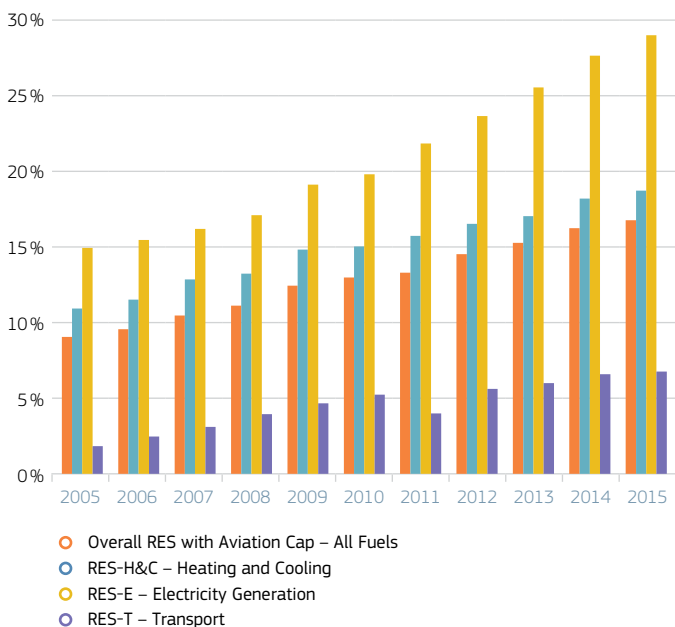
** Break in Series between 2010 and 2011 due to the Application of the Biofuels Compliance Rules.

Source: Eurostat, April 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

2.12.1 RES Shares*

IN THE GROSS FINAL ENERGY CONSUMPTION – EU-28 (%)



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

Source: Eurostat, April 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

2.13 Energy Prices

2.13.1 Prices of Transport Fuels

AUTOMOTIVE DIESEL OIL – ALL TAXES INCLUDED

Current Prices (€/litre)	2007	2010	2014	2015	2016	2017*
BE	1.03	1.14	1.35	1.16	1.10	1.25
BG		0.98	1.30	1.13	0.95	1.03
CZ	1.03	1.21	1.32	1.15	1.01	1.12
DK	1.10	1.21	1.45	1.28	1.17	1.26
DE	1.16	1.20	1.36	1.18	1.08	1.17
EE	0.87	1.10	1.27	1.08	1.03	1.17
IE	1.08	1.22	1.46	1.26	1.15	1.26
EL	0.98	1.24	1.35	1.18	1.07	1.27
ES	0.97	1.07	1.31	1.12	1.01	1.11
FR	1.09	1.14	1.29	1.15	1.10	1.23
HR				1.16	1.07	1.18
IT	1.16	1.21	1.61	1.41	1.28	1.39
CY	0.91	1.00	1.42	1.23	1.13	1.21
LV	0.90	1.06	1.26	1.06	0.95	1.06
LT	0.88	1.02	1.27	1.07	0.95	1.04
LU	0.93	0.99	1.17	1.02	0.92	0.99
HU	1.05	1.16	1.35	1.16	1.06	1.17
MT	0.95	1.04	1.36	1.27	1.17	1.18
NL	1.10	1.15	1.41	1.24	1.13	1.22
AT	1.03	1.10	1.30	1.12	1.03	1.11
PL	0.99	1.06	1.25	1.08	0.94	1.05
PT	1.08	1.15	1.31	1.19	1.13	1.24
RO		1.03	1.37	1.20	1.07	1.03
SI	0.97	1.15	1.36	1.18	1.07	1.17
SK	1.11	1.11	1.34	1.14	1.03	1.14
FI	1.02	1.13	1.49	1.31	1.20	1.32
SE	1.13	1.25	1.54	1.37	1.34	1.43
UK	1.42	1.39	1.66	1.59	1.35	1.40

* Weekly prices, average 02/01/17-26/06/17.

Sources: DG Energy, Member States, Weekly Oil Bulletin
Methodology and Notes: [See Appendix 13 – No 2](#)

2.13.1 Prices of Transport Fuels

EURO-SUPER 95 – ALL TAXES INCLUDED

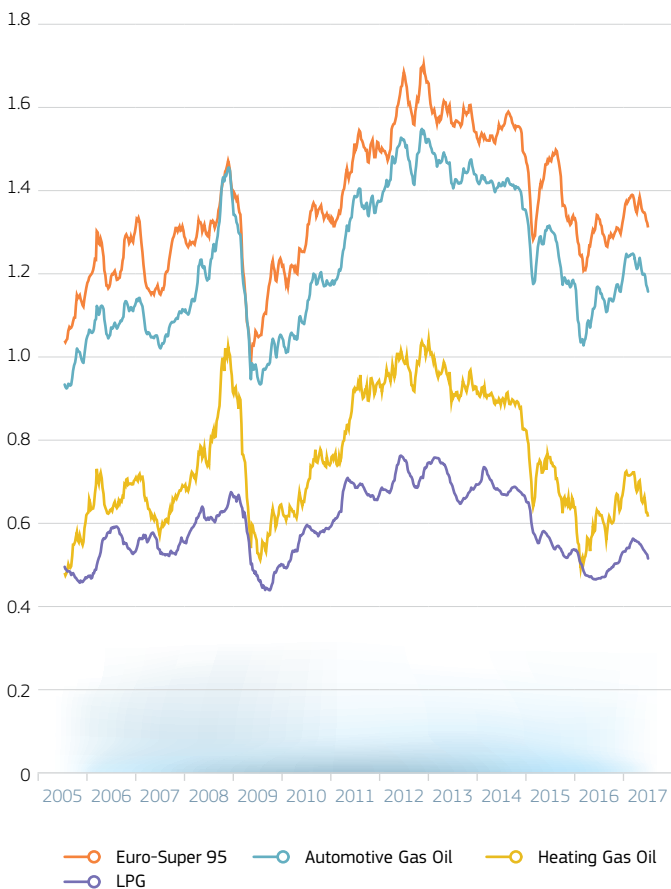
Current Prices (€/litre)	2007	2010	2014	2015	2016	2017*
BE	1.32	1.40	1.53	1.37	1.26	1.37
BG		1.02	1.28	1.10	0.98	1.03
CZ	1.06	1.25	1.32	1.15	1.06	1.15
DK	1.30	1.44	1.65	1.50	1.41	1.50
DE	1.34	1.39	1.54	1.40	1.31	1.38
EE	0.88	1.11	1.28	1.11	1.06	1.18
IE	1.12	1.30	1.53	1.37	1.28	1.38
EL	1.01	1.43	1.65	1.48	1.39	1.52
ES	1.05	1.16	1.39	1.23	1.15	1.23
FR	1.27	1.34	1.49	1.36	1.30	1.39
HR				1.26	1.18	1.28
IT	1.30	1.36	1.72	1.54	1.44	1.54
CY	0.95	1.04	1.41	1.23	1.15	1.22
LV	0.91	1.09	1.29	1.13	1.07	1.16
LT	0.90	1.18	1.32	1.16	1.06	1.14
LU	1.12	1.16	1.30	1.18	1.09	1.16
HU	1.10	1.22	1.33	1.16	1.07	1.16
MT	1.04	1.19	1.44	1.36	1.29	1.31
NL	1.46	1.49	1.70	1.56	1.48	1.56
AT	1.12	1.19	1.35	1.20	1.11	1.18
PL	1.11	1.13	1.26	1.11	1.00	1.09
PT	1.32	1.37	1.53	1.43	1.38	1.47
RO		1.06	1.34	1.20	1.09	1.04
SI	1.03	1.20	1.45	1.29	1.19	1.28
SK	1.11	1.25	1.45	1.29	1.21	1.29
FI	1.30	1.43	1.61	1.47	1.38	1.48
SE	1.24	1.34	1.57	1.41	1.38	1.47
UK	1.38	1.36	1.59	1.54	1.33	1.37

* Weekly prices, average 02/01/17-26/06/17.

Sources: DG Energy, Member States, Weekly Oil Bulletin
Methodology and Notes: See Appendix 13 – No 2

2.13.1 Prices of Transport Fuels

CONSUMER PRICES OF PETROLEUM PRODUCTS EU-28 WEIGHTED AVERAGE* (€ per LITRE)



*All Taxes Included, weekly prices.

Uncomplete EU-28 series for the period 2005-2013 due to later accession to the EU of Bulgaria, Croatia and Romania.

Sources: DG Energy, Member States, weekly oil bulletin
Methodology and Notes: [See Appendix 13 – No 2](#)

2.13.2 Fuel Prices* – Domestic Consumers

GAS – BAND D2

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

€/GJ (GCV)	2009	2010	2013	2014	2015	2016
EU-28	14.60	15.85	19.65	19.96	19.75	17.67
BE	14.33	16.78	18.55	18.06	17.24	14.83
BG	9.67	11.98	14.39	13.44	10.86	8.65
CZ	13.11	14.35	15.98	15.63	16.21	15.65
DK	23.64	26.81	27.14	24.38	21.22	20.59
DE	16.35	15.86	19.13	18.93	18.93	17.83
EE	10.07	11.14	13.21	13.71	10.68	9.10
IE	15.29	14.63	20.07	20.70	20.11	18.83
EL			24.66	22.16	20.83	18.12
ES	14.88	15.00	24.78	26.64	26.57	23.82
FR	16.20	15.98	20.24	21.16	20.35	18.79
HR	9.10	10.54	13.00	13.20	12.76	10.28
IT	14.84	21.86	26.29	26.41	25.13	23.29
CY						
LV	10.52	11.28	13.99	13.56	13.47	11.29
LT	11.29	12.59	17.05	13.87	12.12	10.76
LU	12.82	13.13	15.71	14.27	13.40	11.62
HU	13.23	15.38	11.67	9.74	9.78	9.99
MT						
NL	18.73	19.99	23.97	22.79	22.30	22.45
AT	17.23	16.71	20.96	20.28	19.75	18.71
PL	12.78	14.04	14.14	13.90	13.84	12.26
PT	16.52	17.49	25.93	28.87	27.28	22.96
RO	7.45	7.73	8.52	8.85	9.45	8.98
SI	14.96	18.68	19.71	17.61	16.91	15.64
SK	13.21	12.39	14.39	14.42	13.74	12.37
FI						
SE	26.12	29.48	34.01	31.63	32.58	31.73
UK	11.84	11.72	16.33	17.94	18.56	13.93

* All Taxes and Levies Included.

** Prices from second semester each year.

Source: Eurostat, June 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

2.13.2 Fuel Prices* – Domestic Consumers

ELECTRICITY – BAND DC

2 500 kWh < CONSUMPTION < 5 000 kWh

2ND SEMESTER**

€/100 kWh	2009	2010	2013	2014	2015	2016
EU-28	16.38	17.31	20.24	20.75	21.03	20.54
BE	18.64	19.74	22.15	20.43	23.52	27.45
BG	8.18	8.30	8.82	8.95	9.57	9.38
CZ	15.33	15.49	16.45	13.79	14.08	14.21
DK	25.55	27.08	29.36	30.35	30.42	30.84
DE	22.94	24.38	29.21	29.74	29.46	29.77
EE	9.20	10.04	13.67	13.25	12.91	12.38
IE	18.55	18.75	24.05	25.36	24.54	23.38
EL	10.32	12.11	16.97	17.85	17.71	17.23
ES	16.84	18.51	22.73	23.67	23.70	22.84
FR	12.07	13.50	15.96	17.02	16.82	17.11
HR	11.64	11.53	13.50	13.24	13.12	13.31
IT	19.97	19.20	23.23	23.38	24.28	23.40
CY	16.42	20.21	24.81	23.56	18.38	16.21
LV	10.54	10.48	13.58	13.01	16.50	16.24
LT	9.26	12.16	13.91	13.19	12.43	11.71
LU	18.82	17.47	16.46	17.38	17.67	16.98
HU	16.62	15.74	13.26	11.46	11.45	11.25
MT	15.13	16.53	16.89	12.48	12.69	12.74
NL	19.06	17.89	19.05	18.01	18.46	15.92
AT	19.09	19.30	20.18	19.87	19.83	20.10
PL	12.91	13.82	14.37	14.08	14.18	13.52
PT	15.94	16.66	21.31	22.31	22.85	23.64
RO	9.79	10.52	12.79	12.48	13.19	12.33
SI	13.41	14.26	16.57	16.32	16.31	16.29
SK	15.60	16.37	16.78	15.23	15.17	15.37
FI	12.89	13.70	15.59	15.38	15.30	15.45
SE	16.46	19.58	20.46	18.67	18.74	19.62
UK	14.07	14.49	17.97	20.13	21.83	18.31

* All Taxes and Levies Included.

** Prices from second semester each year.

Source: Eurostat, June 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

2.13.3 Fuel Prices* – Industrial Consumers

GAS – BAND I3

10000 GJ < CONSUMPTION < 100000 GJ

2ND SEMESTER**

€/GJ (GCV)	2009	2010	2013	2014	2015	2016
EU-28	8.32	9.15	11.13	10.27	9.59	8.37
BE	8.50	8.20	9.54	8.13	7.94	7.15
BG	5.96	8.41	9.77	9.48	7.49	5.34
CZ	7.56	10.07	9.21	8.45	8.17	7.16
DK	6.85	10.72	12.23	10.27	9.54	8.37
DE	9.61	11.09	13.30	11.15	10.47	9.21
EE	6.39	7.85	9.80	10.24	7.54	6.50
IE	7.31	8.80	13.16	11.57	10.28	9.43
EL			14.11	12.96	10.00	7.85
ES	7.53	8.08	10.47	10.39	8.81	7.22
FR	8.80	9.69	10.79	10.52	10.19	10.51
HR	7.43	10.95	11.80	11.15	9.74	7.63
IT	7.83	8.34	10.44	9.58	8.87	7.58
CY						
LV	7.69	8.84	10.31	9.89	8.17	6.89
LT	7.55	9.40	11.34	10.40	6.05	6.81
LU	10.03	11.72	12.49	10.94	10.33	9.17
HU	10.06	9.93	13.28	10.81	9.38	7.63
MT						
NL	9.72	8.62	9.67	9.34	8.91	7.91
AT	9.07	9.78	11.90	11.13	10.50	9.48
PL	8.36	9.02	10.12	10.12	9.39	7.26
PT	7.22	9.28	11.66	12.33	10.52	7.67
RO	5.93	6.11	8.01	8.54	8.05	7.27
SI	9.61	11.81	13.33	12.16	10.57	9.07
SK	8.91	10.22	10.74	10.45	9.63	8.67
FI	8.00	9.13	13.01	12.98	11.73	12.21
SE	12.47	13.43	15.16	12.26	11.61	10.67
UK	6.06	6.33	9.95	9.65	9.75	6.91

* Excluding VAT and other recoverable Taxes and Levies.

** Prices from second semester each year.

Source: Eurostat, June 2017

Methodology and Notes: [See Appendix 13 – No 2](#)

2.13.3 Fuel Prices* – Industrial Consumers

ELECTRICITY – BAND IC

2 000 MWh < CONSUMPTION < 20 000 MWh

2ND SEMESTER**

€/100 kWh	2009	2010	2013	2014	2015	2016
EU-28	10.24	10.51	11.82	12.06	11.87	11.40
BE	10.79	10.54	10.99	10.86	10.81	11.58
BG	6.39	6.64	7.26	7.57	7.82	7.88
CZ	11.22	10.81	9.90	8.19	7.83	7.32
DK	9.20	9.61	9.98	9.72	9.06	9.36
DE	11.34	11.90	14.44	15.20	14.93	14.92
EE	6.45	7.27	9.70	9.31	9.58	8.96
IE	11.75	11.31	13.72	13.57	13.57	12.45
EL	9.36	10.26	12.39	12.98	11.50	11.15
ES	11.20	10.93	12.02	11.67	11.33	10.29
FR	6.48	7.16	8.55	9.38	9.51	8.93
HR	9.04	9.04	9.44	9.18	9.28	8.77
IT	13.70	14.43	17.18	17.35	15.97	15.56
CY	14.94	17.30	20.13	19.03	14.12	12.95
LV	8.93	9.07	11.52	11.83	11.83	12.01
LT	7.90	10.46	12.27	11.71	9.97	8.82
LU		10.24	10.01	9.87	8.93	8.58
HU	12.97	10.53	9.80	8.99	8.70	7.96
MT	12.91	18.10	17.80	17.80	14.05	13.99
NL	10.61	9.70	9.45	8.88	8.46	8.05
AT	11.62	11.28	11.08	10.55	10.47	10.04
PL	9.33	9.87	8.78	8.33	8.61	8.15
PT	9.44	9.20	11.38	11.87	11.54	11.32
RO	8.28	8.08	8.20	8.07	8.02	7.71
SI	9.62	10.05	9.45	8.47	8.70	8.32
SK	14.03	11.98	12.69	11.74	11.22	11.12
FI	6.83	6.83	7.49	7.22	7.06	6.94
SE	6.89	8.41	7.47	6.66	5.90	6.56
UK	10.12	10.00	11.96	13.38	15.20	12.78

* Excluding VAT and other recoverable Taxes and Levies.

** Prices from second semester each year.

Source: Eurostat, June 2017

Methodology and Notes: See Appendix 13 – No 2



Socio-Economic Indicators in the EU

PART 3



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3.1 Classification of the Energy Sector*

3.1.1 Comparative Table

EUROSTAT (NACE) AND UN (ISIC) CLASSIFICATIONS

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

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

Sources: Eurostat, UN, June 2017

Methodology and Notes: See Appendix 13 – No 3

3.2 Enterprises in the Energy Sector

3.2.1 Number of Enterprises in the Energy Sector

ENTERPRISES SURVEY – EU-28

	2013	2014	2015*
B05: Mining of Coal and Lignite	236	200	255
B06: Extraction of Crude Petroleum and Natural Gas	416	<i>418</i>	420
B07.21: Mining of Uranium and Thorium Ores	5	<i>4</i>	<i>4</i>
B08.92: Extraction of Peat	917	961	<i>950</i>
B09.1: Support Activities for Petroleum and Natural Gas Extraction	1 050	1 130	1 151
C19: Manufacture of Coke and Refined Petroleum Products	1 108	1 124	1 104
D35: Electricity, Gas, Steam and Air Conditioning Supply	78 601	87 465	92 200
D35.1: Electricity	<i>71 720</i>	80 466	85 000
35.11: Production of Electricity	65 958	74 147	
35.12: Transmission of Electricity		226	
35.13: Distribution of Electricity	2 070	2 196	
35.14: Trade of Electricity	3 472	3 897	
D35.2: Gas	1 857	1 900	1 900
35.21: Manufacture of Gas	341	<i>340</i>	
35.22: Distribution of Gaseous Fuels through Mains	726	722	
35.23: Trade of Gas through Mains	785	838	
D35.3: Steam and Air Conditioning	5 000	5 050	5 100
35.30: Steam and Air Conditioning Supply	5 000	5 050	5 100
Broad Sector – Total	82 333	91 302	<i>96 084</i>

* Provisional data.

Italics: DG Energy Estimations.

Sources: Eurostat, Structural Business Statistics Survey (SBS), July 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.2.1 Number of Enterprises in the Energy Sector

ENTERPRISES SURVEY

	Mining of Coal and Lignite (B05)				Extraction of Crude Petroleum and Natural Gas (B06)			
	2008	2013	2014	2015*	2008	2013	2014	2015*
EU-28	298	236	200	255	315	416	418	420
BE	0	0	0	0	0	0	0	0
BG	23	24	24	22	9	6	7	4
CZ	0	12	11	12	0	5	5	5
DK	0	0	0	0	10	10	11	19
DE	7	5	5	7	4	4	4	4
EE	0	0	0	0	1	2	2	2
IE								
EL	4	0	0	3				
ES	110	56	25	78	4	0	18	10
FR	10	0	0	0	61	58	50	0
HR	0	0	0	0	7	4	4	4
IT					5	12	13	0
CY	0	0	0	0	0	0	0	0
LV	3	0	0	0	0	1	1	2
LT	0	0	0	0	4	4	4	4
LU	0	0	0	0	0	0	0	0
HU	12	17	14	14	10	10	9	8
MT	0	0	0	0	0	0	0	0
NL	0	0	0	0	45	45	43	41
AT	0	0	0	0	2	2	3	0
PL	44	57	58	63	28	52	55	60
PT	0	0	0	0	0	0	0	0
RO	38	35	32	27	10	34	38	37
SI	2	1	1	1	1	1	1	1
SK								
FI	0	0	0	0	0	0	0	0
SE								
UK	22	20	0	0	105	158	145	98

* Provisional data.

Italics: DG Energy Estimations.

Sources: Eurostat, Structural Business Statistics Survey (SBS), July 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.2.1 Number of Enterprises in the Energy Sector

ENTERPRISES SURVEY

	Extraction of Peat (B08.92)				Support Activities for Petroleum and Natural Gas Extraction (B09.1)			
	2008	2013	2014	2015*	2008	2013	2014	2015*
EU-28	<i>1 011</i>	917	961	<i>950</i>	<i>830</i>	1 050	1 130	1 151
BE	0	0	0					
BG		10	3	4	4	11	12	14
CZ						5	5	6
DK	7	2	3		47	52	55	55
DE	90	83	87	91				
EE	38	42	41	41	0	0	0	0
IE					28	41	39	38
EL		0						
ES	6	5	5	7	24	48		46
FR		21	19			45	52	54
HR	2	0	0	0	8	6	4	4
IT	0	4	5			42	39	
CY	0	0	0		0			
LV	54	50	65		0	1	1	2
LT	20	25	26		0	0	0	0
LU	0	0	0		0	0	0	0
HU		15		13	29	35	32	37
MT	0	0	0					
NL	8	7	6		103	201	228	251
AT	7	6	5		6	8	9	8
PL	49	34	34		52	92	107	108
PT	1	0	0	1	1	2	3	4
RO	10	5	5		93	90	105	106
SI	0	0	0		3	4	2	2
SK								
FI	519	473	467		0	0	0	0
SE	87	73	70		39	58	59	63
UK	24	21	20	19	267	286	284	251

* Provisional data.

Italics: DG Energy Estimations.

Sources: Eurostat, Structural Business Statistics Survey (SBS), July 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.2.1 Number of Enterprises in the Energy Sector

ENTERPRISES SURVEY

	Manufacture of Coke and Refined Petroleum Products (C19)				Electricity, Gas, Steam and Air Conditioning Supply (D35)			
	2008	2013	2014	2015*	2008	2013	2014	2015*
EU-28	<i>1274</i>	1108	1124	1104	<i>33758</i>	78601	87465	92200
BE		17	15	20		618	693	736
BG	21	10	13	11	583	1784	1743	1745
CZ	22	33	33	25	1264	8446	10414	10887
DK	4	4	3	3	1692	1845	1784	1760
DE	86	80	85	54	1589	1974	2058	2059
EE	9	7	5	5	181	226	226	230
IE					204	485	483	535
EL	7	48	47	42	5	32	28	27
ES	13	14	10	14	12004	13867	14244	14044
FR	88	56	50	43	3866	20756	24883	26742
HR	19	15	14	14	133	513	560	573
IT	353	297	294		2472	10169	10459	
CY					1			
LV	3	10	12	17	279	480	506	541
LT	5	7	8	8	213	1214	1434	1428
LU	0	0	0	0	60	74	82	73
HU	10	14	10	8	542	675	668	610
MT								
NL	37	38	43	45	558	950	1191	1130
AT	5	4	5	5	1512	2256	2271	2442
PL	158	175	175	176	1788	2546	2583	3132
PT	6	17	17	18	678	925	941	1209
RO	33	42	47	44	506	1345	1501	1460
SI	5	7	5	4	417	1526	1570	1529
SK					203	430	487	465
FI	13	17	18	15	722	816	849	900
SE	44	40		38	1528	2287	2470	4233
UK	245	134	131	132	478	2577	3285	4279

* Provisional data.

Italics: DG Energy Estimations.

Sources: Eurostat, Structural Business Statistics Survey (SBS), July 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.2.2 Turnover in the Energy Sector

ENTERPRISES SURVEY – EU-28

Mio EUR	2013	2014	2015*
B05: Mining of Coal and Lignite	13 282.4	11 783.6	11 196.9
B06: Extraction of Crude Petroleum and Natural Gas	172 599.5	146 325.6	127 389.2
B07.21: Mining of Uranium and Thorium Ores			
B08.92: Extraction of Peat	1 749.8	1 749.4	<i>1 700.0</i>
B09.1: Support Activities for Petroleum and Natural Gas Extraction	16 389.7	18 764.0	19 391.9
C19: Manufacture of Coke and Refined Petroleum Products	606 176.5	557 103.4	405 871.0
D35: Electricity, Gas, Steam and Air Conditioning Supply	1 539 990.8	1 478 875.8	1 510 000.0
D35.1: Electricity	1 233 856.6	1 185 837.6	1 221 650.3
35.11: Production of Electricity	335 039.1	325 816.4	
35.12: Transmission of Electricity	68 751.2	69 990.7	
35.13: Distribution of Electricity	237 541.8	241 043.1	
35.14: Trade of Electricity	592 524.5	548 987.3	
D35.2: Gas	265 273.3	256 721.0	256 668.8
35.21: Manufacture of Gas	5 794.6	5 779.6	
35.22: Distribution of Gaseous Fuels through Mains	83 482.4	56 992.2	
35.23: Trade of Gas through Mains	175 988.6	193 935.5	
D35.3: Steam and Air Conditioning	40 860.9	36 317.2	
35.30: Steam and Air Conditioning Supply	40 860.9	36 317.2	
Broad Sector – Total	2 350 188.7	2 214 601.8	<i>2 075 549.0</i>

* Provisional data.

Italics: DG Energy Estimations.

Sources: Eurostat, Structural Business Statistics Survey (SBS), July 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.2.2 Turnover in the Energy Sector

ENTERPRISES SURVEY

Mio EUR	Mining of Coal and Lignite (B05)				Extraction of Crude Petroleum and Natural Gas (B06)			
	2008	2013	2014	2015*	2008	2013	2014	2015*
EU-28	<i>16674.9</i>	13282.4	11783.6	11196.9	<i>176436.0</i>	172599.5	146325.6	127389.2
BE	0.0	0.0	0.0			0.0	0.0	0.0
BG	326.6	287.5	307.9	348.8	40.9	80.7	55.2	30.4
CZ		2097.4	1608.6	1578.0				
DK	0.0	0.0	0.0	0.0	9239.9	6823.6	5669.7	3925.0
DE	4015.8	2387.2	2271.2	2161.5	3829.2	3431.5	3259.2	2978.4
EE	0.0	0.0	0.0	0.0				
IE								
EL	82.0			58.1				
ES	858.2	433.8	445.7	235.6	77.9		115.6	126.2
FR	47.6		0.0		851.0	729.1	372.1	282.1
HR	0.0	0.0	0.0	0.0				
IT					48042.4	63194.3	56552.5	56651.2
CY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LV		0.0	0.0	0.0	0.0			
LT	0.0	0.0	0.0	0.0	91.2	77.1	73.1	38.6
LU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HU	53.2	13.1	11.4	8.6	89.1	135.1	51.2	33.2
MT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NL		0.0	0.0	0.0	37828.5	46068.0	36275.5	27000.5
AT	0.0	0.0	0.0	0.0				
PL	7212.1	6669.3		5752.9			175.2	
PT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RO	485.1	102.0	32.8	20.5	5472.7	5051.5	4902.7	4245.3
SI								
SK								
FI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE			0.0	0.0			0.0	0.0
UK	1024.8				65153.9	41147.4	33686.0	28916.7

* Provisional data.

Italics: DG Energy Estimations.

Sources: Eurostat, Structural Business Statistics Survey (SBS), July 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.2.2 Turnover in the Energy Sector

ENTERPRISES SURVEY

Mio EUR	Extraction of Peat (B08.92)				Support Activities for Petroleum and Natural Gas Extraction (B09.1)			
	2008	2013	2014	2015*	2008	2013	2014	2015*
EU-28	<i>1 651.4</i>	1 749.8	1 749.4	<i>1 700.0</i>	<i>1 3587.4</i>	16 389.7	18 764.0	19 391.9
BE	0.0	0.0	0.0					
BG		1.7	1.1			1.2	1.2	0.2
CZ								
DK					358.5	377.5	409.9	372.4
DE	348.8	413.4	412.6	399.6				
EE	71.5	79.8	88.6	83.5	0.0	0.0	0.0	0.0
IE					49.5	38.1	5.9	6.8
EL		0.0						
ES	11.6	9.1	9.2	9.9	60.1	226.1		98.6
FR		63.3	67.7				330.3	446.2
HR		0.0	0.0	0.0			256.3	
IT	0.0	2.6	3.7			486.2	1 633.8	1 518.3
CY	0.0	0.0	0.0		0.0			
LV		132.6	142.9		0.0			
LT	32.5	58.5	57.0		0.0	0.0	0.0	0.0
LU	0.0	0.0	0.0		0.0	0.0	0.0	0.0
HU		3.0		5.3	146.1	130.0	116.2	133.4
MT	0.0	0.0	0.0					
NL								
AT		2.7	2.7		11.3	35.6	34.3	48.3
PL	39.3	49.3			213.9	424.9	420.7	319.3
PT		0.0	0.0					
RO	1.1	0.7	0.8		973.4	796.4	757.6	596.7
SI	0.0	0.0	0.0					
SK								
FI	460.1	494.2	502.0		0.0	0.0	0.0	0.0
SE	38.3	40.8	36.5			168.6	121.5	108.7
UK		80.2	73.3	101.6	7 537.0	9 101.7	9 786.9	9 776.7

* Provisional data.

Italics: DG Energy Estimations.

Sources: Eurostat, Structural Business Statistics Survey (SBS), July 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.2.2 Turnover in the Energy Sector

ENTERPRISES SURVEY

Mio EUR	Manufacture of Coke and Refined Petroleum Products (C19)				Electricity, Gas, Steam and Air Conditioning Supply (D35)			
	2008	2013	2014	2015*	2008	2013	2014	2015*
EU-28	<i>547992.2</i>	606176.5	557103.4	405871.0	<i>1149803.8</i>	1539990.8	1478875.8	1510000.0
BE		60047.0	56368.4	42260.8		44457.8	39494.2	39372.2
BG					7313.3	7993.7	8083.2	8357.4
CZ	5021.9	4837.5	4943.2		30927.4	45257.8	38780.3	40844.1
DK					20410.1	26655.8	24828.6	24426.0
DE	134361.4	140054.5	131075.1	107407.8	357896.1	581264.4	560482.1	537677.0
EE	179.9	297.0	280.8	253.8	1542.3	2245.2	2013.6	1764.7
IE					6891.7	8711.8	7763.4	8145.3
EL	17296.6	19688.0	21585.2	17677.4	5977.0	12353.6	11420.1	11472.0
ES	44349.3	52243.3	47980.4	36051.4	74338.8	93620.4	94965.9	93787.0
FR	69128.4	53048.3	47136.7	39385.2	106500.6	119162.0	112204.8	110714.7
HR					3147.9	4336.7	4364.6	4358.9
IT	48947.8	51131.3	38791.9	33417.8	156801.7	212610.2	205223.7	201396.0
CY					738.2			
LV			6.6	7.4	2390.8	2819.9	2313.5	2090.6
LT					2690.3	3234.6	2772.4	2369.6
LU	0.0	0.0	0.0	0.0	2252.1	4133.7	3844.5	
HU	9384.0	8728.3	8160.6	6529.2	26852.9	18953.1	16682.5	16726.6
MT								
NL		52344.4	50694.6	35122.0	38660.1	38759.4	34983.0	32435.8
AT		9698.2	8938.3	7219.2	27553.5	38505.7	34508.0	35307.0
PL	28312.7	34880.3	32743.8	26977.8	44091.4	46297.7	44063.7	47792.3
PT	7841.7	9659.7	8510.9	7130.6	18485.1	21552.4	21669.9	21119.1
RO	4112.9	4323.3	4747.4	3370.8	13180.6	12671.6	12404.1	13153.8
SI	14.6	8.1			3580.0	5949.9	5535.5	6075.6
SK					11021.1	12834.5	10725.6	11318.8
FI				6520.6	12012.3	13630.5	13074.4	12340.4
SE	1526.2			10695.7	24823.9	30323.3	26833.9	26452.8
UK	49837.4	57903.5	52334.0	40197.8	107875.7	130805.0	138730.6	148344.2

* Provisional data.

Italics: DG Energy Estimations.

Sources: Eurostat, Structural Business Statistics Survey (SBS), July 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.2.3 Number of Persons Declared as Employed in the Energy Sector

ENTERPRISES SURVEY – EU-28

	2013	2014	2015*
B05: Mining of Coal and Lignite	194 900	177 143	158 945
B06: Extraction of Crude Petroleum and Natural Gas	77 000	79 131	77 187
B07.21: Mining of Uranium and Thorium Ores			
B08.92: Extraction of Peat	11 200	11 622	<i>11 400</i>
B09.1: Support Activities for Petroleum and Natural Gas Extraction	56 100	57 497	56 570
C19: Manufacture of Coke and Refined Petroleum Products	119 600	117 892	111 946
D35: Electricity, Gas, Steam and Air Conditioning Supply	1 216 300	1 230 152	1 233 305
D35.1: Electricity	916 300	937 829	
35.11: Production of Electricity	457 800	446 326	
35.12: Transmission of Electricity	54 800	54 825	
35.13: Distribution of Electricity	309 700	339 317	
35.14: Trade of Electricity	94 000	97 360	
D35.2: Gas	152 300	148 589	
35.21: Manufacture of Gas	8 800	7 241	
35.22: Distribution of Gaseous Fuels through Mains	102 700	99 993	
35.23: Trade of Gas through Mains	40 800	41 344	
D35.3: Steam and Air Conditioning	147 700	143 734	
35.30: Steam and Air Conditioning Supply	147 700	143 734	
Broad Sector – Employment Reported	1 675 100	1 673 437	<i>1 649 353</i>

* Provisional data.

Italics: DG Energy Estimations.

Sources: Eurostat, Structural Business Statistics Survey (SBS), July 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.2.3 Number of Persons Declared as Employed in the Energy Sector

ENTERPRISES SURVEY

	Mining of Coal and Lignite (B05)				Extraction of Crude Petroleum and Natural Gas (B06)			
	2008	2013	2014	2015*	2008	2013	2014	2015*
EU-28	<i>253 883</i>	194 900	177 143	158 945	<i>88 205</i>	77 000	79 131	77 187
BE	0	0	0			0	0	0
BG	13 905	12 534	12 132	11 995				
CZ		21 595	19 972	18 715				
DK	0	0	0	0	444	971	1 030	987
DE	38 415	22 511	20 164	17 468	3 544	3 764	3 972	3 927
EE	0	0	0	0				
IE								
EL	159			127				
ES	7 311	4 012	3 666	1 684	215		355	368
FR			0			672		
HR	0	0	0	0				7 852
IT					13 047	12 354	12 882	12 884
CY	0	0	0	0	0	0	0	0
LV	18	0	0	0	0	15	19	20
LT	0	0	0	0	351	269	255	212
LU	0	0	0	0	0	0	0	0
HU	121	243	143	124	36	82	80	68
MT	0	0	0	0	0	0	0	0
NL		0	0	0	3 076	3 627	3 831	3 913
AT	0	0	0	0				
PL	138 338	116 760		95 973			714	
PT	0	0	0	0	0	0	0	0
RO	20 804	5 758	2 213	1 843	38 538	25 680	25 246	23 485
SI						1		
SK								
FI	0	0	0	0	0	0	0	0
SE			0	0			0	0
UK	5 944	5 421	3 777	2 844	13 405	14 363		17 127

* Provisional data.

Italics: DG Energy Estimations.

Sources: Eurostat, Structural Business Statistics Survey (SBS), July 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.2.3 Number of Persons Declared as Employed in the Energy Sector

ENTERPRISES SURVEY

	Extraction of Peat (B08.92)				Support Activities for Petroleum and Natural Gas Extraction (B09.1)			
	2008	2013	2014	2015*	2008	2013	2014	2015*
EU-28	<i>12 537</i>	11 200	11 622	<i>11 400</i>	<i>47 333</i>	56 100	57 497	56 570
BE	0	0	0					
BG		107	33	55		38	38	25
CZ							642	
DK					1 716	2 044	1 995	1 829
DE	1 912	1 844	2 015	1 762				
EE	1 276	1 076	1 042	963	0	0	0	0
IE					46	59	32	19
EL		0						
ES	57	34	32	36	224	217		191
FR		195	203				375	
HR		0	0	0			2 563	2 273
IT	0	17	19			1 815	1 864	1 818
CY	0	0	0		0			
LV	1 970	2 081	2 136		0	1	1	2
LT	1 229	1 091	1 154		0	0	0	0
LU	0	0	0		0	0	0	0
HU		94		97	1 275	1 190	1 079	1 062
MT	0	0	0					
NL	36	110	104		2 270			
AT		29	27		19	88	106	186
PL	711	532			2 181	5 118	5 146	4 626
PT		0	0					
RO	41	29	27		9 882	7 526	7 388	6 774
SI	0	0	0			69		
SK								
FI	1 735	2 044	2 091		0	0	0	0
SE	358	311	260			77	88	342
UK	634	29	274		18 489			

* Provisional data.

Italics: DG Energy Estimations.

Sources: Eurostat, Structural Business Statistics Survey (SBS), July 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.2.3 Number of Persons Declared as Employed in the Energy Sector

ENTERPRISES SURVEY

	Manufacture of Coke and Refined Petroleum Products (C19)				Electricity, Gas, Steam and Air Conditioning Supply (D35)			
	2008	2013	2014	2015*	2008	2013	2014	2015*
EU-28	<i>135 372</i>	119 600	117 892	111 946	<i>1 243 616</i>	1 216 300	1 230 152	1 233 305
BE		4 453	4 401	4 402		20 181	20 907	21 854
BG		2 208	2 129	2 078	36 197	32 809	32 573	31 751
CZ	2 926	2 173	2 053		32 652	33 495	33 849	34 307
DK					13 206	11 265	14 308	14 509
DE	19 611	19 269	22 593	22 302	221 450	219 936	228 179	224 669
EE	1 330	1 644	1 668	1 679	6 290	5 218	5 097	4 949
IE					9 235	8 246	8 496	8 569
EL	4 557	3 945	3 920	3 723	23 955	20 481	21 598	20 902
ES	8 823	8 855	8 644	8 453	47 622	38 974	38 514	39 764
FR						181 335	190 297	
HR				262	16 849	15 472	14 739	14 893
IT	16 383	13 292	11 259	11 111	84 224	87 908	88 476	90 546
CY					2 347			
LV	9	30	41	66	12 185	11 109	10 624	11 233
LT					18 303	13 781	13 912	13 849
LU	0	0	0	0	1 091	1 435	1 470	
HU	6 538	6 106	5 923	5 691	27 387	24 608	24 782	24 601
MT								
NL	6 652	5 213	5 422	5 354	23 869	27 056	27 153	27 753
AT		1 124	1 145	1 180	28 218	29 402	29 297	29 274
PL	16 606	13 220	13 224	13 476	153 286	139 998	136 068	128 386
PT	2 132	1 990	1 794	1 830	10 336	8 913	8 703	9 589
RO	5 017	2 516	2 657	2 560	89 511	77 393	76 016	72 307
SI	93	34		26	7 828	8 942	9 069	8 957
SK					21 641	17 885	18 104	17 950
FI				2 814	13 430	13 729	13 645	13 282
SE	2 748			2 817	31 151	31 264	31 811	32 027
UK	9 998				121 447	129 496	129 335	141 099

* Provisional data.

Italics: DG Energy Estimations.

Sources: Eurostat, Structural Business Statistics Survey (SBS), July 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.3 Economy

3.3.1 GDP at Current Market Prices

Mrd EUR*	1995	2000	2005	2010	2014	2015	2016
EU-28	7 345.9	9 648.9	11 590.7	12 817.6	14 010.9	14 728.5	14 824.7
BE	221.4	258.2	311.5	365.1	400.8	410.2	421.6
BG	11.0	14.3	23.9	38.2	42.8	45.3	47.4
CZ	45.5	66.6	109.4	156.4	156.7	167.0	174.4
DK	141.4	178.0	212.8	243.2	265.2	271.8	276.8
DE	1 982.1	2 116.5	2 300.9	2 580.1	2 923.9	3 032.8	3 134.1
EE	2.9	6.2	11.3	14.7	19.8	20.3	20.9
IE	52.9	108.4	170.2	167.1	193.2	255.8	265.8
EL	104.7	143.0	199.2	226.0	177.9	175.7	175.9
ES	468.9	646.3	930.6	1 080.9	1 037.0	1 075.6	1 113.9
FR	1 231.4	1 485.3	1 772.0	1 998.5	2 147.6	2 194.2	2 228.9
HR	17.1	23.6	36.5	45.0	43.0	43.8	45.6
IT	895.3	1 239.3	1 489.7	1 604.5	1 621.8	1 645.4	1 672.4
CY	7.6	10.8	15.0	19.3	17.6	17.6	17.9
LV	4.1	8.6	13.7	17.8	23.6	24.4	25.0
LT	5.1	12.5	21.0	28.0	36.6	37.3	38.6
LU	16.5	23.1	30.0	40.2	50.0	52.3	54.2
HU	35.4	51.2	90.6	98.3	105.0	109.7	112.4
MT	2.8	4.4	5.1	6.6	8.4	9.3	9.9
NL	341.6	448.1	545.6	631.5	663.0	676.5	697.2
AT	183.9	213.2	253.0	294.6	330.4	339.9	349.3
PL	108.7	186.4	246.2	361.8	411.0	430.0	424.3
PT	91.0	128.5	158.7	179.9	173.1	179.5	184.9
RO	28.8	40.8	80.2	126.7	150.4	160.0	169.6
SI	16.3	21.9	29.2	36.3	37.3	38.6	39.8
SK	15.3	22.3	39.3	67.6	75.9	78.7	81.0
FI	102.7	136.3	164.4	187.1	205.5	209.5	214.1
SE	201.8	281.9	313.2	369.1	432.7	447.0	462.1
UK	1 009.5	1 773.4	2 017.4	1 833.0	2 260.8	2 580.1	2 366.9

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

Source: DG Economic and Financial Affairs, AMECO, June 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.3.2 GDP per Capita at Current Market Prices

Thousand EUR/cap*	1995	2000	2005	2010	2014	2015	2016
EU-28	15.2	19.8	23.4	25.5	27.6	29.0	29.1
BE	21.9	25.2	29.8	33.7	35.8	36.5	37.3
BG	1.3	1.7	3.1	5.2	5.9	6.3	6.6
CZ	4.4	6.5	10.7	14.9	14.9	15.8	16.5
DK	27.1	33.4	39.3	43.9	47.1	48.0	48.5
DE	24.3	25.8	27.9	31.5	36.2	37.4	38.1
EE	2.0	4.4	8.3	11.0	15.0	15.4	15.9
IE	14.7	28.7	41.4	36.7	41.9	55.3	56.3
EL	9.9	13.3	18.2	20.3	16.3	16.2	16.3
ES	11.8	16.0	21.5	23.3	22.3	23.2	24.0
FR	20.8	24.5	28.2	30.9	32.6	33.0	33.4
HR	3.7	5.2	8.5	10.5	10.1	10.4	10.9
IT	15.8	21.8	25.7	27.1	26.7	27.1	27.6
CY	11.8	15.6	20.5	23.6	20.5	20.8	21.1
LV	1.7	3.6	6.1	8.4	11.8	12.3	12.7
LT	1.4	3.6	6.3	8.9	12.4	12.8	13.4
LU	40.7	53.2	65.1	80.0	90.9	93.0	94.0
HU	3.4	5.0	9.0	9.8	10.6	11.1	11.4
MT	7.5	11.3	12.8	15.9	19.8	21.6	22.8
NL	22.1	28.2	33.5	38.1	39.4	40.0	41.1
AT	23.2	26.6	30.8	35.3	38.8	39.6	40.2
PL	2.8	4.9	6.4	9.5	10.8	11.3	11.2
PT	9.1	12.5	15.1	17.0	16.6	17.3	17.9
RO	1.3	1.8	3.8	6.2	7.5	8.1	8.6
SI	8.2	11.0	14.6	17.7	18.1	18.7	19.3
SK	2.8	4.1	7.3	12.5	14.0	14.5	14.9
FI	20.1	26.3	31.4	35.0	37.7	38.3	39.0
SE	22.9	31.8	34.8	39.5	44.9	45.9	46.9
UK	17.4	30.2	33.5	29.3	35.1	39.8	36.2

* 1 000 €' per Capita.

Source: DG Economic and Financial Affairs, AMECO, June 2017
Methodology and Notes: See Appendix 13 – No 3

3.3.3 GDP at 2010 Market Prices

Mrd EUR*	1995	2000	2005	2010	2014	2015	2016
EU-28	9650.9	11149.9	12259.3	12817.6	13215.4	13506.5	13760.0
BE	270.1	311.5	340.8	365.1	378.1	383.6	388.2
BG	24.0	24.4	32.2	38.2	39.8	41.3	42.7
CZ	104.7	114.4	138.7	156.4	161.7	169.1	173.2
DK	194.1	225.2	240.6	243.2	253.5	257.5	260.8
DE	2145.1	2358.7	2426.5	2580.1	2743.9	2791.1	2843.2
EE	7.9	10.7	15.0	14.7	17.2	17.5	17.7
IE	78.2	124.7	163.3	167.1	181.2	228.8	240.7
EL	158.8	189.9	229.8	226.0	184.9	184.5	184.5
ES	710.5	867.9	1025.4	1080.9	1035.1	1068.3	1102.9
FR	1535.1	1771.7	1923.2	1998.5	2075.0	2097.2	2122.1
HR	29.8	35.3	44.0	45.0	43.2	43.9	45.2
IT	1409.1	1555.6	1629.9	1604.5	1542.9	1555.0	1568.7
CY	11.8	14.3	17.0	19.3	17.4	17.7	18.2
LV	9.6	12.3	18.2	17.8	20.6	21.2	21.6
LT	14.6	18.3	26.4	28.0	33.1	33.6	34.4
LU	23.1	30.8	35.6	40.2	45.1	46.9	48.9
HU	69.5	80.5	99.3	98.3	104.6	107.9	110.0
MT	4.3	5.4	6.0	6.6	7.8	8.3	8.8
NL	448.7	554.7	592.8	631.5	643.0	655.6	670.0
AT	218.6	253.7	276.3	294.6	307.5	310.5	315.1
PL	190.5	246.2	286.7	361.8	404.3	419.8	431.1
PT	136.9	167.1	174.5	179.9	169.1	171.8	174.2
RO	84.0	83.0	109.8	126.7	137.6	143.0	149.9
SI	22.6	27.9	33.3	36.3	36.2	37.1	38.0
SK	35.2	41.9	53.6	67.6	73.5	76.3	78.9
FI	123.4	158.1	179.6	187.1	186.6	187.1	189.6
SE	251.4	299.7	341.2	369.1	392.5	408.5	421.5
UK	1339.4	1566.2	1799.6	1833.0	1980.1	2023.6	2060.1

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

Source: DG Economic and Financial Affairs, AMECO, June 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.3.4 GDP per Capita at 2010 Market Prices

Thousand EUR/cap*	1995	2000	2005	2010	2014	2015	2016
EU-28	20.0	22.9	24.8	25.5	26.1	26.6	27.0
BE	26.7	30.4	32.6	33.7	33.8	34.1	34.3
BG	2.8	3.0	4.2	5.2	5.5	5.7	6.0
CZ	10.1	11.1	13.6	14.9	15.4	16.0	16.4
DK	37.2	42.3	44.5	43.9	45.0	45.5	45.7
DE	26.3	28.7	29.4	31.5	34.0	34.4	34.6
EE	5.5	7.6	11.1	11.0	13.1	13.3	13.5
IE	21.7	33.0	39.7	36.7	39.3	49.4	50.9
EL	15.1	17.6	20.9	20.3	16.9	17.0	17.1
ES	17.9	21.4	23.7	23.3	22.3	23.0	23.7
FR	25.9	29.3	30.6	30.9	31.5	31.5	31.8
HR	6.4	7.8	10.2	10.5	10.2	10.4	10.8
IT	24.8	27.3	28.2	27.1	25.4	25.6	25.9
CY	18.3	20.7	23.2	23.6	20.2	20.8	21.4
LV	3.8	5.2	8.1	8.4	10.3	10.7	11.0
LT	4.0	5.2	7.9	8.9	11.2	11.5	11.9
LU	56.9	71.0	77.2	80.0	82.0	83.3	84.8
HU	6.7	7.9	9.8	9.8	10.6	10.9	11.2
MT	11.5	13.9	14.8	15.9	18.3	19.4	20.2
NL	29.1	35.0	36.4	38.1	38.2	38.8	39.5
AT	27.5	31.7	33.7	35.3	36.1	36.2	36.3
PL	4.9	6.4	7.5	9.5	10.6	11.0	11.4
PT	13.7	16.3	16.6	17.0	16.2	16.6	16.8
RO	3.7	3.7	5.1	6.2	6.9	7.2	7.6
SI	11.4	14.0	16.7	17.7	17.6	18.0	18.4
SK	6.6	7.8	10.0	12.5	13.6	14.1	14.5
FI	24.2	30.6	34.3	35.0	34.2	34.2	34.6
SE	28.5	33.8	37.9	39.5	40.7	41.9	42.8
UK	23.1	26.6	29.9	29.3	30.8	31.2	31.5

* 1000€ 2010 per Capita.

Source: DG Economic and Financial Affairs, AMECO, June 2017
Methodology and Notes: See Appendix 13 – No 3

3.4 Demography

3.4.1 Population

ON 1ST JANUARY

Thousand Inhabitants	1995	2000	2005	2010	2014	2015	2016
EU-28	481904.0	487259.1	494598.3	503170.6	506973.9	508504.3	510284.4
BE	10130.6	10239.1	10445.9	10839.9	11180.8	11237.3	11311.1
BG	8427.4	8190.9	7688.6	7421.8	7245.7	7202.2	7153.8
CZ	10333.2	10278.1	10198.9	10462.1	10512.4	10538.3	10553.8
DK	5215.7	5330.0	5411.4	5534.7	5627.2	5659.7	5707.3
DE	81538.6	82163.5	82500.8	81802.3	80767.5	81197.5	82175.7
EE	1448.1	1401.3	1358.9	1333.3	1315.8	1314.9	1315.9
IE	3597.6	3777.6	4111.7	4549.4	4605.5	4628.9	4724.7
EL	10536.0	10775.6	10969.9	11119.3	10926.8	10858.0	10783.7
ES	39639.7	40470.2	43296.3	46486.6	46512.2	46449.6	46445.8
FR	59315.1	60545.0	62772.9	64658.9	65942.1	66488.2	66760.0
HR	4658.9	4497.7	4310.9	4302.8	4246.8	4225.3	4190.7
IT	56844.4	56923.5	57874.8	59190.1	60782.7	60795.6	60665.6
CY	645.4	690.5	733.1	819.1	858.0	847.0	848.3
LV	2500.6	2381.7	2249.7	2120.5	2001.5	1986.1	1969.0
LT	3643.0	3512.1	3355.2	3142.0	2943.5	2921.3	2888.6
LU	405.7	433.6	461.2	502.1	549.7	563.0	576.2
HU	10336.7	10221.6	10097.5	10014.3	9877.4	9855.6	9830.5
MT	376.4	388.8	402.7	414.0	425.4	429.3	434.4
NL	15424.1	15864.0	16305.5	16575.0	16829.3	16900.7	16979.1
AT	7943.5	8002.2	8201.4	8351.6	8506.9	8576.3	8690.1
PL	38580.6	38263.3	38173.8	38022.9	38017.9	38005.6	37967.2
PT	10008.7	10249.0	10494.7	10573.5	10427.3	10374.8	10341.3
RO	22712.4	22455.5	21382.4	20294.7	19947.3	19870.6	19760.3
SI	1989.5	1987.8	1997.6	2047.0	2061.1	2062.9	2064.2
SK	5356.2	5398.7	5372.7	5390.4	5415.9	5421.3	5426.3
FI	5098.8	5171.3	5236.6	5351.4	5451.3	5471.8	5487.3
SE	8816.4	8861.4	9011.4	9340.7	9644.9	9747.4	9851.0
UK	57943.5	58785.2	60182.1	62510.2	64351.2	64875.2	65382.6

3.5 Employment

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

MEMBER STATES DATA – EU-28

Thousands	2010	2013	2014	2015	2016
B05 Mining of coal and lignite	331.2	326.4	313.5	294.5	274.1
B06 Extraction of crude petroleum and natural gas	103.8	96.8	97.8	88.8	81.3
B0892 Extraction of peat*	<i>12.5</i>	<i>11.2</i>	<i>11.6</i>	<i>11.4</i>	<i>11.4</i>
B091 Support activities for petroleum and natural gas extraction*	<i>47.3</i>	<i>56.1</i>	<i>57.5</i>	<i>56.6</i>	<i>56.6</i>
C19 Manufacture of coke and refined petroleum products	218.7	207.9	198.5	190.0	186.4
D35 Electricity, gas, steam and air conditioning supply	1 645.4	1 616.3	1 581.9	1 550.3	1 551.8
Broad Sector Total Employment**	2 359.0	2 314.7	2 260.8	2 191.6	2 161.6

* According to the Structural Business Survey (SBS), July 2017, and DG ENERGY estimates.

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

Italics: DG Energy Estimations

Sources: Eurostat, Labour Force Survey (LFS), July 2017
Methodology and Notes: [See Appendix 13 – No 3](#)

3.5.2 Employment Rate in all Economic Sectors

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

%	2010	2012	2013	2014	2015	2016
EU-28	64.1	64.1	64.1	64.8	65.6	66.6
BE	62.0	61.8	61.8	61.9	61.8	62.3
BG	59.8	58.8	59.5	61.0	62.9	63.4
CZ	65.0	66.5	67.7	69.0	70.2	72.0
DK	73.3	72.6	72.5	72.8	73.5	74.9
DE	71.3	73.0	73.5	73.8	74.0	74.7
EE	61.2	67.1	68.5	69.6	71.9	72.1
IE	59.6	58.8	60.5	61.7	63.3	64.8
EL	59.1	50.8	48.8	49.4	50.8	52.0
ES	58.8	55.8	54.8	56.0	57.8	59.5
FR	64.0	64.0	64.0	64.2	64.3	64.6
HR	57.4	53.5	52.5	54.6	56.0	56.9
IT	56.8	56.6	55.5	55.7	56.3	57.2
CY	68.9	64.6	61.7	62.1	62.7	63.4
LV	58.5	63.0	65.0	66.3	68.1	68.7
LT	57.6	62.0	63.7	65.7	67.2	69.4
LU	65.2	65.8	65.7	66.6	66.1	65.6
HU	54.9	56.7	58.1	61.8	63.9	66.5
MT	56.2	59.1	60.8	62.4	63.9	65.7
NL	74.7	74.4	73.6	73.1	74.1	74.8
AT	70.8	71.4	71.4	71.1	71.1	71.5
PL	58.9	59.7	60.0	61.7	62.9	64.5
PT	65.3	61.4	60.6	62.6	63.9	65.2
RO	60.2	60.2	60.1	61.0	61.4	61.6
SI	66.2	64.1	63.3	63.9	65.2	65.8
SK	58.8	59.7	59.9	61.0	62.7	64.9
FI	68.1	69.4	68.9	68.7	68.5	69.1
SE	72.1	73.8	74.4	74.9	75.5	76.2
UK	69.4	69.9	70.5	71.9	72.7	73.5

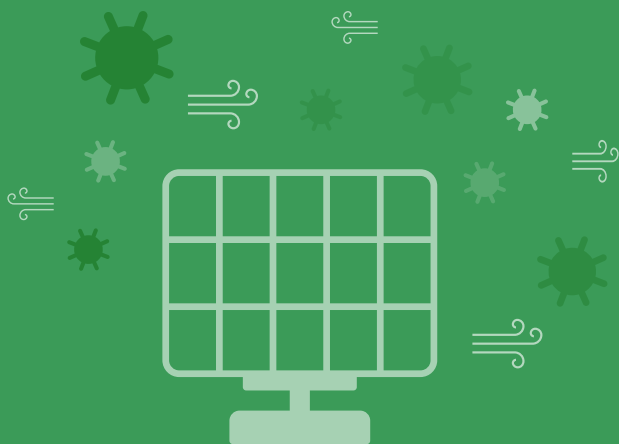
3.5.3 Unemployment Rate in all Economic Sectors *

MEMBER STATES' DATA – ALL SECTORS

%	2010	2012	2013	2014	2015	2016
EU-28	9.6	10.5	10.9	10.2	9.4	8.5
BE	8.3	7.6	8.4	8.5	8.5	7.8
BG	10.3	12.3	13.0	11.4	9.2	7.6
CZ	7.3	7.0	7.0	6.1	5.1	4.0
DK	7.5	7.5	7.0	6.6	6.2	6.2
DE	7.0	5.4	5.2	5.0	4.6	4.1
EE	16.7	10.0	8.6	7.4	6.2	6.8
IE	13.9	14.7	13.1	11.3	9.4	7.9
EL	12.7	24.5	27.5	26.5	24.9	23.6
ES	19.9	24.8	26.1	24.5	22.1	19.6
FR	9.3	9.8	10.3	10.3	10.4	10.1
HR	11.8	15.8	17.4	17.2	16.1	13.3
IT	8.4	10.7	12.1	12.7	11.9	11.7
CY	6.3	11.9	15.9	16.1	15.0	13.1
LV	19.5	15.0	11.9	10.8	9.9	9.6
LT	17.8	13.4	11.8	10.7	9.1	7.9
LU	4.6	5.1	5.9	6.0	6.5	6.3
HU	11.2	11.0	10.2	7.7	6.8	5.1
MT	6.9	6.3	6.4	5.8	5.4	4.7
NL	5.0	5.8	7.3	7.4	6.9	6.0
AT	4.8	4.9	5.4	5.6	5.7	6.0
PL	9.7	10.1	10.3	9.0	7.5	6.2
PT	12.0	15.8	16.4	14.1	12.6	11.2
RO	7.0	6.8	7.1	6.8	6.8	5.9
SI	7.3	8.9	10.1	9.7	9.0	8.0
SK	14.5	14.0	14.2	13.2	11.5	9.6
FI	8.4	7.7	8.2	8.7	9.4	8.8
SE	8.6	8.0	8.0	7.9	7.4	6.9
UK	7.8	7.9	7.5	6.1	5.3	4.8

* Percentage of active population.

Sources: Eurostat, Labour Force Survey (LFS), July 2017
Methodology and Notes: See Appendix 13 – No 3



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4.1 Gases Emissions

4.1.1 GHGs Emissions

EU-28 AND MEMBER STATES – TOTAL

Million ton CO ₂ equiv.	1995	2000	2005	2010	2014	2015
EU-28	5 381.4	5 270.8	5 345.2	4 909.5	4 423.7	4 451.8
Index 1995	100.0 %	97.9 %	99.3 %	91.2 %	82.2 %	82.7 %
BE	157.3	154.2	148.7	136.6	118.1	121.6
BG	75.3	59.6	64.3	60.8	58.0	62.0
CZ	157.6	150.0	148.6	140.6	127.5	128.8
DK	80.1	73.1	68.9	65.6	53.5	51.0
DE	1 135.7	1 062.2	1 014.9	966.0	928.8	926.5
EE	20.3	17.4	19.3	21.3	21.2	18.1
IE	60.9	70.9	72.5	64.0	60.0	62.4
EL	111.8	128.9	138.9	120.9	102.2	98.6
ES	335.2	395.8	451.6	369.6	338.3	350.4
FR	554.6	566.4	569.1	527.7	470.0	474.6
HR	22.6	25.5	29.6	27.6	23.4	23.9
IT	536.8	560.9	588.3	514.1	432.5	442.8
CY	7.9	9.2	10.2	10.4	9.2	9.2
LV	12.8	10.4	11.5	12.6	11.5	11.6
LT	22.4	19.7	23.2	20.9	20.1	20.3
LU	10.6	10.6	14.3	13.5	12.0	11.7
HU	76.0	74.2	76.6	66.1	58.4	61.6
MT	2.9	3.0	3.3	3.3	3.3	2.6
NL	239.2	229.7	225.4	224.5	198.5	206.7
AT	81.2	82.2	94.6	87.1	78.4	81.0
PL	439.7	391.4	399.8	408.4	384.7	387.7
PT	71.7	84.5	88.6	72.1	67.4	72.1
RO	181.7	140.6	146.8	121.4	116.0	117.8
SI	18.8	19.2	20.6	19.7	16.7	16.9
SK	54.5	49.9	51.5	46.7	40.8	41.4
FI	72.7	71.1	70.9	77.3	61.1	57.5
SE	75.2	70.7	68.8	66.7	56.1	55.9
UK	765.8	739.8	724.5	643.9	555.8	536.9

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

Source: EEA_UNFCCC v_20 June 2017

Methodology and Notes: See Appendix 13 – No 4

4.1.1 GHGs Emissions

EU-28 AND MEMBER STATES – FUEL COMBUSTION

	2015								
	Fuel Combustion Activities	Energy Industries	Manufacturing Industries and Construction	Transport	Commercial/ Institutional	Residential	Agriculture/ Forestry/ Fisheries	Other Sectors	Other Combustion and Fugitive Emissions
Million ton CO ₂ equiv.									
EU-28	3358.0	1242.0	483.4	905.9	156.3	395.3	78.8	7.0	89.3
Share (%)	75.43%	27.90%	10.86%	20.35%	3.51%	8.88%	1.77%	0.16%	2.01%
BE	86.3	21.3	13.6	26.5	5.8	16.2	2.1	0.1	0.6
BG	45.6	30.3	2.9	9.4	0.3	1.0	0.5	0.1	1.2
CZ	98.0	53.6	9.9	17.7	2.6	8.1	1.2	0.4	4.4
DK	34.5	12.8	3.9	12.3	0.8	2.2	1.8	0.2	0.4
DE	762.2	335.4	127.1	160.8	34.6	86.4	6.3	1.0	10.7
EE	15.9	12.2	0.5	2.3	0.1	0.3	0.4	0.0	0.0
IE	36.5	11.8	4.5	11.8	1.7	6.0	0.6	0.0	0.0
EL	71.0	40.9	5.2	17.1	0.7	5.2	0.6	0.2	1.1
ES	255.5	86.2	41.2	83.4	11.2	17.2	11.4	0.3	4.6
FR	316.9	42.1	50.5	132.5	25.3	50.1	12.1	0.0	4.2
HR	16.7	4.8	2.2	6.0	0.6	1.9	0.7	0.0	0.5
IT	354.2	105.9	52.6	106.0	23.4	50.7	7.7	0.5	7.5
CY	6.0	3.0	0.5	1.9	0.1	0.4	0.1	0.0	0.0
LV	7.1	1.8	0.7	3.1	0.5	0.5	0.4	0.0	0.1
LT	11.1	3.2	1.2	5.1	0.3	0.8	0.2	0.0	0.3
LU	8.9	0.5	1.1	5.7	0.5	1.1	0.0	0.0	0.0
HU	43.3	13.9	4.3	12.2	3.1	7.6	1.4	0.0	0.8
MT	1.8	0.9	0.0	0.6	0.1	0.0	0.0	0.0	0.0
NL	161.0	68.4	24.1	31.2	7.6	16.8	10.0	0.2	2.8
AT	53.4	10.9	10.5	22.6	1.9	6.1	0.9	0.1	0.5
PL	316.1	163.6	28.1	46.6	8.0	36.6	10.4	0.0	22.9
PT	48.2	18.4	7.9	16.2	1.1	2.1	1.1	0.1	1.3
RO	80.1	29.7	12.5	15.7	2.0	7.3	1.0	0.5	11.4
SI	13.4	4.6	1.6	5.4	0.4	0.9	0.2	0.0	0.4
SK	27.4	7.7	6.8	6.7	1.5	2.9	0.3	0.0	1.6
FI	40.8	16.2	8.4	11.1	1.0	1.5	1.4	1.1	0.1
SE	39.0	9.0	7.6	18.2	0.7	1.0	1.4	0.2	0.9
UK	407.2	133.0	53.9	117.8	20.4	64.4	4.7	2.0	11.0

Source: EEA_UNFCCC v_20 June 2017

Methodology and Notes: See Appendix 13 – No 4

4.1.1 GHGs Emissions

EU-28 AND MEMBER STATES –
OTHER THAN FUEL COMBUSTION

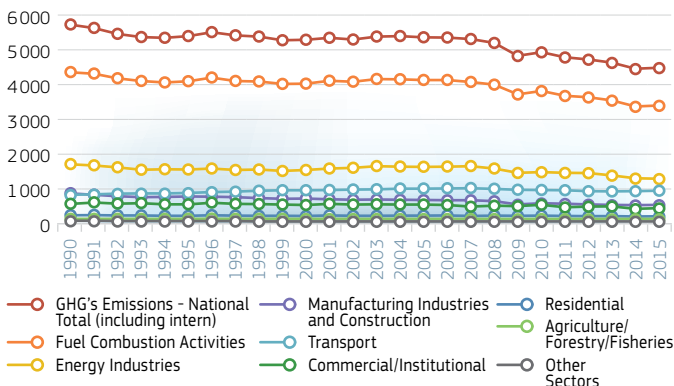
Million ton CO ₂ equiv.	2015				
	Industrial Processes and Solvent Use	Agriculture	Waste and Others	Indirect CO ₂	International aviation
EU-28	373.9	436.7	139.3	1.7	142.2
Share (%)	8.40%	9.81%	3.13%	0.04%	3.19%
BE	19.5	10.0	1.6	0.0	4.2
BG	5.7	5.9	4.2	0.0	0.5
CZ	15.4	8.5	5.3	0.8	0.9
DK	2.0	10.3	1.2	0.4	2.7
DE	61.5	67.0	11.2	0.0	24.5
EE	0.5	1.3	0.3	0.0	0.1
IE	3.1	19.2	1.0	0.0	2.5
EL	11.9	8.3	4.5	0.0	2.9
ES	30.8	36.0	13.5	0.0	14.7
FR	44.5	78.4	17.4	0.0	17.5
HR	0.0	0.0	0.0	0.0	0.0
IT	30.0	30.0	18.8	0.0	9.8
CY	1.3	0.6	0.5	0.0	0.8
LV	0.8	2.7	0.7	0.0	0.3
LT	3.4	4.6	1.0	0.0	0.2
LU	0.6	0.7	0.1	0.0	1.4
HU	7.3	6.7	3.8	0.0	0.5
MT	0.2	0.1	0.1	0.0	0.4
NL	11.5	19.2	3.4	0.2	11.5
AT	16.7	7.2	1.7	0.0	2.1
PL	28.5	29.6	11.6	0.0	1.9
PT	7.6	6.6	6.4	0.2	3.2
RO	11.9	18.6	5.8	0.0	1.4
SI	1.2	1.7	0.5	0.0	0.1
SK	9.3	3.0	1.5	0.0	0.1
FI	6.1	6.5	2.1	0.1	2.0
SE	6.4	6.9	1.4	0.0	2.2
UK	33.5	44.6	18.2	0.0	33.4

4.1.1 GHGs Emissions

EU-28 – TOTAL AND FUEL COMBUSTION

Million ton CO ₂ equiv.	GHG Emissions - National Total (including intern)	Fuel Combustion Activities	Energy Industries	Manufacturing Industries and Construction	Transport	Commercial/ Institutional	Residential	Agriculture/ Forestry/ Fisheries	Other Sectors
1990	5716	4337	1679.6	836.4	781.8	200.3	526.9	97.2	23.3
1991	5614	4295	1642.3	789.4	789.3	210.3	569.3	96.2	19.4
1992	5443	4161	1582.3	752.8	813.9	193.4	534.4	93.2	16.8
1993	5347	4082	1515.2	724.0	818.9	191.9	550.1	96.3	14.7
1994	5328	4040	1524.7	727.4	824.1	178.7	514.4	96.0	14.3
1995	5381	4071	1520.7	743.5	837.5	181.8	517.6	95.5	13.6
1996	5495	4179	1550.4	732.3	864.7	199.8	565.3	98.1	12.1
1997	5399	4077	1503.5	724.2	876.4	184.7	530.8	95.1	12.2
1998	5360	4063	1521.0	692.6	904.2	182.7	519.3	92.2	11.6
1999	5256	3998	1478.3	671.7	923.1	182.2	505.4	92.0	10.5
2000	5271	4005	1509.1	679.5	918.0	175.9	491.2	89.9	9.7
2001	5325	4086	1550.5	656.1	931.4	190.8	527.7	90.0	8.9
2002	5279	4057	1567.5	640.6	942.2	178.7	505.4	88.2	8.9
2003	5367	4137	1618.0	648.9	951.5	179.9	517.8	88.6	9.6
2004	5375	4132	1604.8	646.6	971.1	184.6	509.6	89.1	10.6
2005	5345	4108	1597.9	635.1	970.7	185.1	506.1	89.7	10.7
2006	5338	4107	1608.9	627.7	978.5	190.6	495.4	86.5	10.6
2007	5294	4052	1623.2	629.5	988.4	169.3	442.8	83.4	10.9
2008	5179	3973	1547.2	600.5	964.0	189.7	474.4	84.7	10.0
2009	4804	3691	1421.1	503.4	936.8	181.2	461.1	82.7	8.8
2010	4910	3790	1445.2	537.4	931.3	189.5	497.5	84.9	8.5
2011	4759	3643	1422.3	523.4	919.2	170.3	421.6	83.3	8.2
2012	4693	3601	1416.4	499.4	890.7	167.2	444.1	81.8	7.4
2013	4599	3513	1342.1	489.4	883.9	168.8	447.8	81.8	7.2
2014	4424	3329	1254.3	481.6	891.6	150.7	375.1	79.0	6.9
2015	4452	3358	1242.0	483.4	905.9	156.3	395.3	78.8	7.0

GHGs EMISSIONS – EU-28 – TOTAL AND FUEL COMBUSTION (MILLION ton CO₂ EQUIV.)



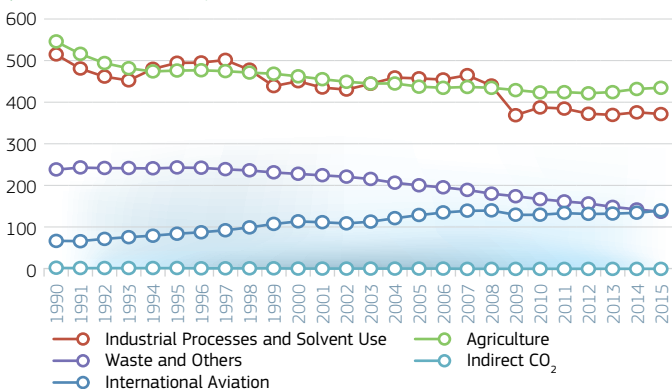
Source: EEA, UNFCCC v_20 June 2017

Methodology and Notes: See Appendix 13 – No 4

4.1.1 GHGs Emissions

EU-28 – OTHER THAN FUEL COMBUSTION

Million ton CO ₂ equiv.	Industrial Processes and Solvent Use	Agriculture	Waste and Other	Indirect CO ₂	International aviation
1990	516.9	548.3	240.9	4.4	69.3
1991	482.9	518.3	245.5	4.3	68.2
1992	463.7	496.3	244.0	4.2	73.8
1993	455.0	483.6	244.1	4.0	78.1
1994	482.5	476.6	243.9	3.8	81.6
1995	497.2	478.1	245.3	3.7	86.1
1996	498.0	478.8	245.2	3.6	90.2
1997	504.2	477.2	241.8	3.5	94.6
1998	480.1	473.3	238.7	3.3	101.7
1999	440.6	470.8	233.6	3.0	109.8
2000	452.5	464.5	230.7	2.7	115.9
2001	437.1	457.9	227.0	2.6	114.1
2002	432.9	451.3	223.6	2.4	111.3
2003	446.5	447.1	217.7	2.4	115.8
2004	461.5	446.8	209.1	2.3	123.6
2005	460.0	439.8	203.0	2.4	131.7
2006	456.6	436.9	197.9	2.3	137.3
2007	467.3	439.1	191.4	2.2	141.9
2008	442.6	436.4	182.9	2.1	142.6
2009	371.1	431.2	176.2	2.0	132.0
2010	390.0	425.5	169.7	2.0	132.3
2011	386.7	426.3	164.0	1.9	136.6
2012	374.2	423.8	158.8	1.8	134.0
2013	371.6	426.7	150.6	1.7	135.2
2014	378.0	433.9	144.4	1.6	137.3
2015	373.9	436.7	139.3	1.7	142.2

GHGs EMISSIONS – EU-28 – OTHER THAN FUEL COMBUSTION
(MILLION ton CO₂ EQUIV.)

Source: EEA, UNFCCC v_20 June 2017

Methodology and Notes: See Appendix 13 – No 4

4.1.2 CO₂ Emissions *

EU-28 AND MEMBER STATES – TOTAL

Million ton CO ₂	1995	2000	2005	2010	2014	2015
EU-28	4288.3	4280.2	4423.0	4063.8	3606.4	3640.6
Index 1995	100.0%	99.8%	103.1%	94.8%	84.1%	84.9%
BE	128.7	131.2	128.9	117.5	100.6	104.4
BG	58.4	45.4	51.1	48.3	45.7	48.8
CZ	132.0	127.5	126.6	118.1	104.5	105.5
DK	64.6	57.5	54.8	52.1	40.6	38.2
DE	952.9	918.4	888.6	856.4	819.2	816.4
EE	18.3	15.4	17.3	19.1	19.0	16.0
IE	36.9	47.0	50.5	43.9	38.9	40.9
EL	89.6	105.5	116.5	99.9	81.5	77.8
ES	274.5	322.0	382.4	297.1	268.6	286.3
FR	408.4	429.0	439.9	404.0	348.1	353.9
HR	17.2	20.0	23.7	21.5	18.1	18.3
IT	453.2	474.2	500.4	434.3	356.2	366.9
CY	6.7	7.9	8.8	8.8	7.7	7.6
LV	9.3	7.2	8.0	8.9	7.5	7.6
LT	15.1	11.9	14.2	13.9	13.1	13.4
LU	9.7	9.7	13.4	12.5	11.0	10.7
HU	62.2	59.3	61.3	52.9	44.6	47.3
MT	2.7	2.8	3.0	2.9	2.8	2.1
NL	180.9	181.9	188.4	193.0	169.1	176.7
AT	65.5	68.0	81.3	74.6	66.2	68.9
PL	362.1	317.9	322.6	333.6	309.3	312.5
PT	56.4	67.9	71.6	55.4	50.9	55.3
RO	126.1	93.4	100.0	82.8	77.8	79.4
SI	15.3	15.5	17.0	16.4	13.6	13.7
SK	44.8	41.3	42.9	38.7	33.6	34.0
FI	59.2	58.2	58.4	65.7	49.7	46.4
SE	60.7	56.7	55.9	55.1	45.5	45.5
UK	577.0	587.7	595.5	536.2	463.2	446.2

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

Source: EEA, UNFCCC v_20 June 2017

Methodology and Notes: [See Appendix 13 – No 4](#)

4.1.2 CO₂ EmissionsEU-28 AND MEMBER STATES –
FUEL COMBUSTION

Million ton CO ₂	2015								
	Fuel Combustion Activities	Energy Industries	Manufacturing Industries and Construction	Transport	Commercial/ Institutional	Residential	Agriculture/ Forestry/ Fisheries	Other Sectors	Other Combustion and Fugitive Emissions
EU-28	3241.2	1230.4	477.0	895.3	154.9	377.4	73.0	6.9	26.4
Share (%)	89.0%	33.8%	13.1%	24.6%	4.3%	10.4%	2.0%	0.2%	0.7%
BE	84.5	21.1	13.4	26.2	5.7	16.0	2.0	0.1	0.1
BG	43.8	30.2	2.8	9.3	0.3	0.7	0.5	0.1	0.0
CZ	92.1	53.3	9.8	17.3	2.6	7.2	1.2	0.4	0.2
DK	33.7	12.7	3.8	12.2	0.8	2.0	1.8	0.2	0.2
DE	744.3	330.0	126.0	159.1	34.5	85.4	5.8	1.0	2.6
EE	15.6	12.2	0.5	2.3	0.1	0.2	0.3	0.0	0.0
IE	36.0	11.6	4.5	11.7	1.7	5.9	0.5	0.0	0.0
EL	69.2	40.8	5.2	16.8	0.7	5.1	0.5	0.2	0.0
ES	250.8	85.7	40.1	82.5	11.0	16.2	11.3	0.3	3.7
FR	310.2	41.8	50.0	130.7	25.2	48.4	11.1	0.0	3.0
HR	15.9	4.8	2.2	5.9	0.6	1.5	0.6	0.0	0.3
IT	341.7	105.3	51.5	104.8	22.9	47.1	6.9	0.5	2.6
CY	6.0	3.0	0.5	1.8	0.1	0.4	0.1	0.0	0.0
LV	6.7	1.7	0.6	3.1	0.4	0.4	0.4	0.0	0.0
LT	10.4	3.1	1.2	5.0	0.3	0.6	0.2	0.0	0.0
LU	8.8	0.5	1.1	5.6	0.5	1.1	0.0	0.0	0.0
HU	41.6	13.8	4.3	12.0	3.1	6.9	1.4	0.0	0.1
MT	1.8	0.9	0.0	0.6	0.1	0.0	0.0	0.0	0.0
NL	158.0	67.9	24.0	30.8	7.5	16.3	9.0	0.2	2.1
AT	52.2	10.8	10.3	22.4	1.8	5.8	0.8	0.0	0.2
PL	290.8	162.7	27.8	46.0	7.9	33.6	9.3	0.0	3.5
PT	47.2	18.2	7.7	16.0	1.1	1.8	1.0	0.1	1.2
RO	68.1	29.6	12.4	15.5	2.0	6.2	1.0	0.4	0.9
SI	12.8	4.5	1.6	5.3	0.4	0.7	0.2	0.0	0.1
SK	25.4	7.6	6.7	6.6	1.5	2.7	0.3	0.0	0.0
FI	40.0	16.0	8.3	11.0	0.9	1.3	1.3	1.1	0.1
SE	37.8	8.7	7.4	18.0	0.7	0.7	1.3	0.2	0.8
UK	395.7	131.7	53.0	116.5	20.4	63.4	4.1	2.0	4.6

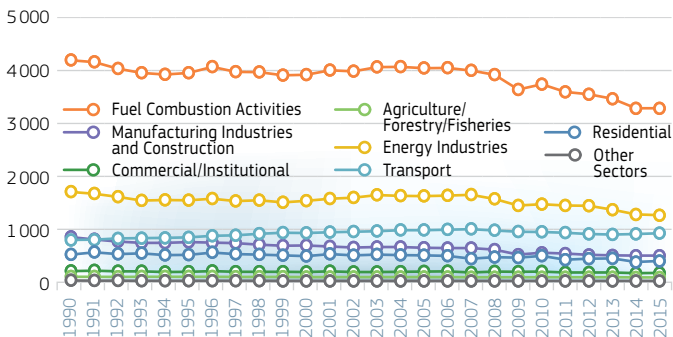
4.1.2 CO₂ EmissionsEU-28 AND MEMBER STATES –
OTHER THAN FUEL COMBUSTION

Million ton CO ₂	2015				
	Industrial Processes and Product Use	Agriculture	Waste and Others	Indirect CO ₂	International aviation
EU-28	243.4	10.3	3.2	1.7	140.9
Share (%)	6.7%	0.3%	0.1%	0.0%	3.9%
BE	15.3	0.2	0.3	0.0	4.2
BG	4.4	0.1	0.0	0.0	0.5
CZ	11.2	0.3	0.1	0.8	0.9
DK	1.2	0.2	0.0	0.4	2.6
DE	44.7	3.1	0.0	0.0	24.3
EE	0.3	0.0	0.0	0.0	0.1
IE	2.0	0.4	0.0	0.0	2.5
EL	5.7	0.0	0.0	0.0	2.9
ES	20.4	0.5	0.0	0.0	14.6
FR	22.9	2.0	1.5	0.0	17.3
HR	1.9	0.1	0.0	0.0	0.4
IT	15.0	0.4	0.1	0.0	9.7
CY	0.9	0.0	0.0	0.0	0.8
LV	0.5	0.0	0.0	0.0	0.3
LT	2.6	0.1	0.0	0.0	0.2
LU	0.5	0.0	0.0	0.0	1.4
HU	4.8	0.2	0.2	0.0	0.5
MT	0.0	0.0	0.0	0.0	0.3
NL	7.1	0.1	0.0	0.2	11.4
AT	14.4	0.1	0.0	0.0	2.1
PL	18.5	0.8	0.5	0.0	1.9
PT	4.7	0.1	0.0	0.2	3.1
RO	9.8	0.1	0.0	0.0	1.4
SI	0.7	0.0	0.0	0.0	0.1
SK	8.3	0.1	0.0	0.0	0.1
FI	4.2	0.2	0.0	0.1	2.0
SE	5.3	0.1	0.1	0.0	2.2
UK	15.9	1.2	0.3	0.0	33.1

4.1.2 CO₂ Emissions

EU-28 – TOTAL AND FUEL COMBUSTION

Million ton CO ₂	GHG Emissions - National Total (including intern)	Fuel Combustion Activities	Energy Industries	Manufacturing Industries and Construction	Transport	Commercial/Institutional	Residential	Agriculture/Forestry/Fisheries	Other Sectors
1990	4530	4111.6	1669.9	828.9	767.4	197.7	503.4	92.1	22.8
1991	4469	4080.8	1632.7	782.2	775.1	208.2	544.4	91.2	19.0
1992	4332	3954.7	1573.0	745.8	799.3	191.8	511.8	88.2	16.4
1993	4252	3878.1	1506.2	717.4	803.7	190.3	526.7	91.0	14.4
1994	4243	3848.3	1515.6	720.7	808.4	177.4	493.4	90.6	14.1
1995	4288	3879.1	1511.4	736.5	820.8	180.3	497.0	90.1	13.4
1996	4395	3989.0	1540.9	725.3	847.1	198.3	543.2	92.4	11.9
1997	4310	3894.4	1494.2	717.2	858.4	183.2	510.4	89.5	12.0
1998	4309	3889.9	1511.7	685.4	885.8	181.3	500.1	86.8	11.4
1999	4248	3830.6	1469.2	664.7	905.6	180.8	486.8	86.7	10.3
2000	4280	3844.6	1499.8	672.3	902.9	174.5	473.7	84.6	9.6
2001	4348	3925.9	1540.9	648.8	917.0	189.5	510.1	84.7	8.8
2002	4323	3904.6	1557.7	633.2	928.6	177.5	489.3	82.9	8.8
2003	4419	3986.6	1607.6	641.2	938.4	178.6	500.7	83.3	9.4
2004	4439	3988.0	1594.3	638.6	958.3	183.3	493.2	83.8	10.4
2005	4423	3968.2	1587.4	627.1	958.9	183.7	488.9	84.2	10.5
2006	4435	3972.0	1598.0	620.0	966.9	189.2	477.9	81.1	10.3
2007	4393	3920.5	1612.1	621.8	976.9	167.8	425.0	77.8	10.7
2008	4294	3841.5	1536.2	593.0	952.9	188.2	455.2	78.9	9.8
2009	3945	3566.4	1410.3	497.1	926.4	179.6	441.8	76.8	8.6
2010	4064	3663.4	1433.8	530.7	920.9	187.9	476.8	78.8	8.3
2011	3924	3520.3	1410.8	516.9	909.0	168.8	403.8	77.2	8.1
2012	3865	3476.6	1404.5	493.0	880.5	165.7	424.9	75.7	7.3
2013	3779	3392.4	1330.3	483.1	873.7	167.4	428.3	75.7	7.1
2014	3606	3212.6	1242.8	475.4	881.2	149.4	357.9	73.2	6.8
2015	3641	3241.2	1230.4	477.0	895.3	154.9	377.4	73.0	6.9

CO₂ EMISSIONS – EU-28 – TOTAL AND FUEL COMBUSTION
(MILLION ton CO₂)

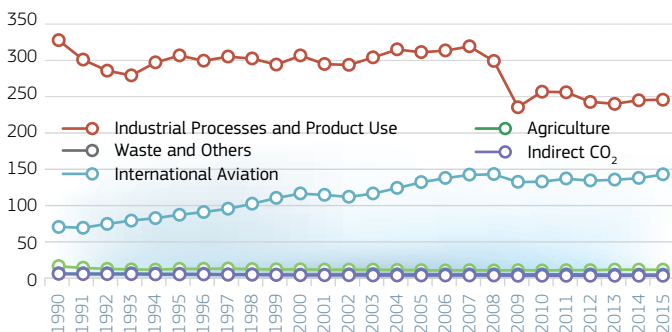
Source: EEA, UNFCCC v_20 June 2017

Methodology and Notes: See Appendix 13 – No 4

4.1.2 CO₂ Emissions

EU-28 – OTHER THAN FUEL COMBUSTION

Million ton CO ₂	Industrial Processes and Product Use	Agriculture	Waste and Others	Indirect CO ₂	International aviation
1990	325.3	15.2	5.2	4.4	68.6
1991	298.4	12.9	5.2	4.3	67.6
1992	283.3	11.3	5.3	4.2	73.1
1993	277.0	10.7	5.1	4.0	77.4
1994	294.8	10.2	4.9	3.8	80.8
1995	304.2	11.3	4.6	3.7	85.4
1996	297.0	11.2	4.5	3.6	89.4
1997	302.9	11.6	3.9	3.5	93.7
1998	300.2	11.0	3.8	3.3	100.8
1999	291.6	10.7	3.4	3.0	108.7
2000	304.1	10.5	3.4	2.7	114.8
2001	292.5	10.2	3.5	2.6	113.1
2002	291.3	10.2	3.7	2.4	110.3
2003	301.5	10.1	4.0	2.4	114.8
2004	312.6	9.8	3.7	2.3	122.4
2005	308.8	9.4	3.8	2.4	130.5
2006	311.2	9.1	3.8	2.3	136.1
2007	316.7	9.4	3.8	2.2	140.6
2008	296.5	9.0	3.7	2.1	141.3
2009	233.2	9.3	3.6	2.0	130.8
2010	254.6	9.1	3.7	2.0	131.1
2011	253.7	9.5	3.6	1.9	135.3
2012	240.3	9.4	3.6	1.8	132.8
2013	237.5	10.1	3.5	1.7	134.0
2014	242.5	10.1	3.5	1.6	136.0
2015	243.4	10.3	3.2	1.7	140.9

CO₂ EMISSIONS – EU-28 – OTHER THAN FUEL COMBUSTION
(MILLION ton CO₂)

Source: EEA, UNFCCC v_20 June 2017

Methodology and Notes: See Appendix 13 – No 4

4.2 Main Emissions Indicators

4.2.1 CO₂ per Capita

kg CO ₂ /cap	1995	2000	2005	2010	2014	2015
EU-28	8899	8784	8943	8076	7114	7159
Index 1995	100.0%	98.7%	100.5%	90.8%	79.9%	80.5%
BE	12701	12815	12344	10843	8996	9293
BG	6933	5543	6652	6503	6307	6780
CZ	12778	12408	12414	11287	9936	10007
DK	12381	10785	10125	9418	7206	6747
DE	11687	11178	10771	10470	10142	10054
EE	12607	11009	12717	14345	14464	12137
IE	10269	12443	12289	9659	8438	8839
EL	8503	9791	10622	8987	7458	7168
ES	6925	7957	8833	6390	5774	6165
FR	6885	7085	7008	6249	5278	5323
HR	3700	4445	5500	4997	4273	4325
IT	7972	8330	8646	7338	5860	6035
CY	10313	11482	12015	10793	8922	8986
LV	3702	3015	3552	4198	3749	3818
LT	4156	3382	4241	4411	4453	4583
LU	23922	22267	28987	24896	20083	19018
HU	6013	5797	6071	5285	4512	4801
MT	7147	7161	7379	7108	6621	4907
NL	11730	11464	11551	11643	10047	10455
AT	8250	8503	9917	8932	7780	8028
PL	9385	8307	8450	8773	8136	8223
PT	5631	6625	6822	5241	4882	5333
RO	5551	4159	4675	4078	3901	3995
SI	7691	7797	8505	8028	6591	6628
SK	8369	7652	7982	7174	6197	6264
FI	11601	11253	11154	12283	9123	8479
SE	6888	6393	6201	5902	4720	4669
UK	9959	9997	9896	8577	7198	6878

4.2.2 Carbon GDP Intensity

ton CO ₂ /M€'10	1995	2000	2005	2010	2014	2015
EU-28	444	384	361	317	273	270
Index 1995	100.0%	86.4%	81.2%	71.4%	61.4%	60.7%
BE	476.4	421.3	378.4	321.9	266.1	272.2
BG	2438.7	1859.9	1589.7	1262.4	1147.3	1183.0
CZ	1260.9	1114.9	913.1	755.2	645.8	623.7
DK	332.6	255.2	227.7	214.4	160.0	148.3
DE	444.2	389.4	366.2	331.9	298.5	292.5
EE	2301.1	1446.8	1150.7	1299.7	1105.0	913.4
IE	472.2	377.1	309.4	262.9	214.5	178.9
EL	564.2	555.6	507.1	442.1	440.8	421.9
ES	386.4	371.0	373.0	274.8	259.5	268.0
FR	266.0	242.1	228.7	202.2	167.7	168.7
HR	577.5	566.5	539.3	477.7	419.9	416.0
IT	321.6	304.8	307.0	270.7	230.9	235.9
CY	563.6	553.9	516.8	458.1	440.8	431.1
LV	969.3	585.0	439.1	500.4	363.8	357.9
LT	1038.2	648.2	538.2	494.4	396.5	397.8
LU	420.6	313.6	375.5	311.1	244.8	228.3
HU	894.4	736.4	617.2	538.3	426.1	438.7
MT	623.1	516.4	497.6	445.9	362.5	252.4
NL	403.3	327.8	317.7	305.6	262.9	269.5
AT	299.8	268.2	294.4	253.2	215.2	221.8
PL	1900.3	1291.0	1125.2	921.9	765.1	744.4
PT	411.8	406.2	410.3	308.0	301.0	322.1
RO	1500.1	1125.4	910.6	653.0	565.7	555.2
SI	676.1	555.8	510.6	453.3	375.1	369.0
SK	1272.9	986.1	800.3	572.2	456.4	444.8
FI	479.3	368.1	325.1	351.3	266.6	248.0
SE	241.6	189.1	163.8	149.4	116.0	111.4
UK	430.8	375.2	330.9	292.5	233.9	220.5



Country Profiles

PART 5



Summary

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5.0 European Union 28

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	969.3	952.1	914.6	851.6	788.3	781.9
Solid Fuels	279.8	214.6	196.2	165.0	150.2	145.4
of which Hard Coal	174.9	120.7	100.2	75.0	61.7	58.2
Petroleum and Products	180.8	180.0	142.5	110.2	84.5	89.3
of which Crude and NGL	172.3	169.9	129.9	94.9	68.1	72.7
Gases	191.5	209.4	190.7	159.8	117.5	107.9
of which Natural Gas	191.0	209.2	190.6	159.8	117.5	107.9
Nuclear	227.3	243.8	257.5	236.6	226.1	221.2
Renewables	84.3	98.2	119.9	168.9	197.5	205.0
Wastes, Non-Renewable	5.7	6.1	7.8	11.1	12.5	13.0
Net Imports	736.8	827.1	980.2	953.7	881.2	902.1
Solid Fuels	78.4	98.3	125.3	111.7	123.0	112.4
of which Hard Coal	76.6	94.3	122.8	111.1	122.7	112.6
Petroleum and Products	510.8	533.0	597.9	557.5	519.5	534.9
of which Crude and NGL	471.4	501.0	563.7	522.3	498.0	528.0
Gases	145.6	193.5	254.1	278.0	231.3	247.3
of which Natural Gas	145.6	193.5	254.1	278.0	231.3	247.3
Renewables	0.3	0.3	1.5	5.8	5.9	6.0
Electricity	1.8	2.0	1.4	0.6	1.3	1.2
Gross Inland Consumption	1 675.0	1 730.1	1 830.9	1 764.4	1 607.8	1 627.5
Solid Fuels	365.0	321.3	318.3	283.3	269.0	262.7
of which Hard Coal	257.6	221.5	220.6	192.0	180.4	175.7
Petroleum and Products	654.5	662.2	679.4	610.9	551.8	560.1
of which Crude and NGL	645.5	673.5	693.7	617.6	566.6	597.0
Gases	336.1	396.2	445.2	447.1	343.5	357.9
of which Natural Gas	335.7	396.0	445.1	447.0	343.5	357.9
Nuclear	227.3	243.8	257.5	236.6	226.1	221.2
Renewables	84.6	98.5	121.3	174.8	203.1	211.0
Electricity	1.8	2.0	1.4	0.6	1.3	1.2
Wastes, Non-Renewable	5.7	6.1	7.8	11.1	12.8	13.3
Primary Energy Consumption	1 567.6	1 618.0	1 713.1	1 657.4	1 508.6	1 530.7
Available for Final Consumption	1 193.1	1 243.2	1 313.4	1 276.4	1 161.1	1 182.4
Final Non-Energy Consumption	107.4	112.2	117.8	106.9	99.1	96.8
Final Energy Consumption	1 082.8	1 132.9	1 192.3	1 164.5	1 061.7	1 084.0
by Fuel/Product						
Solid Fuels	83.0	61.9	54.0	50.1	46.2	46.3
Petroleum and Products	466.1	490.5	503.8	458.5	422.4	429.6
Gases	247.5	267.6	282.0	272.3	229.1	236.3
Biomass and Renewable Wastes	43.6	48.3	57.8	80.9	80.5	84.3
Solar	0.3	0.4	0.7	1.5	1.9	2.0
Geothermal	0.4	0.4	0.4	0.4	0.5	0.5
Electricity	194.1	217.4	239.4	244.1	232.4	235.7
Derived heat	46.3	45.3	52.7	54.0	45.3	45.9
Wastes, Non-Renewable	1.6	1.0	1.5	2.7	3.4	3.5
by Sector						
Industry	331.6	333.4	328.1	287.0	274.0	274.7
Transport	306.8	344.7	369.3	364.2	352.6	358.6
Residential	285.5	291.2	309.2	318.9	264.5	275.2
Services	114.3	121.4	144.2	157.8	141.8	146.9
Agriculture and Fishing	32.5	29.5	29.0	26.2	24.7	24.7
Other	12.2	12.7	12.5	10.4	4.1	3.8

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	618.5	681.1	758.0	883.9	975.0	981.9
Combustible Fuels	353.3	391.5	435.1	488.2	479.8	465.8
Nuclear	128.4	136.6	135.0	131.7	123.5	122.0
Hydro	133.5	139.0	143.4	147.3	150.3	152.4
Wind	2.4	12.7	40.4	84.6	129.1	141.5
Solar PV	0.0	0.2	2.3	29.5	86.8	94.9
Geothermal	0.5	0.6	0.7	0.8	0.8	0.8
Tide, Wave and Ocean	0.2	0.2	0.2	0.2	0.2	0.2
Other Sources	0.1	0.2	0.9	0.9	2.0	2.0
Gross Electricity Generation (TWh)	2 743.6	3 035.8	3 325.8	3 366.1	3 190.8	3 234.3
Solid Fuels	945.9	933.9	960.3	829.3	807.9	791.5
Petroleum and Products	230.3	181.3	142.8	87.0	58.0	61.1
Gases	294.4	513.1	704.0	799.1	490.6	529.9
Nuclear	880.8	945.0	997.7	916.6	876.3	857.1
Renewables	382.6	448.6	496.1	710.4	931.2	965.8
Wastes, non-RES	8.7	12.1	14.2	19.2	22.0	23.2
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)					119.3	119.7
CHP Electricity Generation (TWh)				394.6	331.1	362.9
CHP in Total Electricity Generation (%)				11.8%	10.4%	11.2%
CHP Heat Production (PJ)				3 038.4	2 767.9	2 791.7
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	3 003 869	3 371 344	3 578 723	3 431 162	3 302 541	3 358 666
Motor Gasoline	1 381 589	1 340 427	1 153 175	91 754.5	78 975.1	77 449.4
Gas/Diesel Oil	1 234 363	1 531 174	1 860 310	1 952 212	1 950 172	2 002 661
Final Consumption Biofuels	216.2	709.0	3 198.0	13 104.6	14 062.6	14 030.0
Biogasoline	24.3	58.2	573.4	2 804.6	2 656.9	2 680.2
Biodiesel	187.4	636.4	2 469.9	10 261.7	11 397.3	11 345.3
Main Energy Indicators						
Energy Intensity (toe/M€'10)	173.6	155.2	149.3	137.7	121.7	120.5
Energy per Capita (kgoe/cap)	3 475.8	3 550.7	3 701.7	3 506.5	3 171.3	3 200.5
Final Electricity per Capita (KWh/cap)	4 685.2	5 188.9	5 630.3	5 641.5	5 330.9	5 389.9
Primary Energy Intensity (toe/M€'10)	162.4	145.1	139.7	129.3	114.2	113.3
Import Dependency (%)	43.1 %	46.7 %	52.1 %	52.6 %	53.4 %	54.0 %
of Solid Fuels	21.5%	30.6%	39.4%	39.4%	45.7%	42.8%
of Hard Coal	29.7%	42.6%	55.7%	57.9%	68.0%	64.1%
of Petroleum Fuels	74.1%	75.7%	82.1%	84.5%	87.5%	88.8%
of Crude and NGL	73.0%	74.4%	81.3%	84.6%	87.9%	88.4%
of Natural Gas	43.4%	48.9%	57.1%	62.2%	67.3%	69.1%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			9.0%	12.9%	16.1%	16.7%
RES-H&C – Heating and Cooling			10.9%	14.9%	18.1%	18.6%
RES-E – Electricity Generation			14.8%	19.7%	27.5%	28.8%
RES-T – Transport			1.8%	5.2%	6.5%	6.7%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	4 288.3	4 280.2	4 423.0	4 063.8	3 606.4	3 640.6
GHGs Emissions*	5 381.4	5 270.8	5 345.2	4 909.5	4 423.7	4 451.8
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	8 898.7	8 784.2	8 942.6	8 076.3	7 113.6	7 159.5
Carbon Intensity (kg CO ₂ /toe)	2 508.0	2 415.3	2 353.2	2 241.1	2 185.9	2 180.5
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	444.3	383.9	360.8	317.0	272.9	269.5

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.1 Belgium

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	11.83	13.61	13.72	16.19	13.32	11.59
Solid Fuels	0.31	0.21	0.06			
of which Hard Coal	0.31	0.21	0.06	0.01	0.01	0.01
Petroleum and Products	0.00	0.00	0.01	0.80	0.99	1.22
of which Crude and NGL						
Gases	0.00	0.00				
of which Natural Gas	0.00	0.00				
Nuclear	10.67	12.42	12.28	12.37	8.69	6.73
Renewables	0.44	0.53	0.88	2.27	2.95	2.96
Wastes, Non-Renewable	0.41	0.44	0.50	0.74	0.68	0.68
Net Imports	46.64	50.50	53.43	53.56	47.13	50.63
Solid Fuels	9.42	7.30	5.24	3.70	3.39	3.10
of which Hard Coal	8.90	6.56	4.96	3.72	3.10	2.64
Petroleum and Products	26.37	29.45	32.55	32.45	28.94	31.18
of which Crude and NGL	26.18	34.04	31.77	33.11	32.57	32.26
Gases	10.42	13.28	14.82	16.79	12.83	13.87
of which Natural Gas	10.42	13.28	14.82	16.79	12.83	13.87
Renewables	0.09	0.10	0.28	0.57	0.45	0.68
Electricity	0.35	0.37	0.54	0.05	1.51	1.81
Gross Inland Consumption	53.83	59.30	59.06	60.90	53.55	54.22
Solid Fuels	8.65	8.00	5.17	3.76	3.33	3.18
of which Hard Coal	8.21	7.26	4.91	3.69	3.00	2.74
Petroleum and Products	22.61	24.06	24.67	24.41	23.25	24.22
of which Crude and NGL	22.63	33.97	31.92	33.13	32.53	32.24
Gases	10.61	13.37	14.74	16.75	12.68	13.97
of which Natural Gas	10.61	13.37	14.74	16.75	12.68	13.97
Nuclear	10.67	12.42	12.28	12.37	8.69	6.73
Renewables	0.53	0.64	1.16	2.83	3.40	3.63
Electricity	0.35	0.37	0.54	0.05	1.51	1.81
Wastes, Non-Renewable	0.41	0.44	0.50	0.74	0.68	0.68
Primary Energy Consumption	47.91	52.32	51.33	53.54	45.15	45.70
Available for Final Consumption	39.93	44.83	44.42	45.66	42.73	44.46
Final Non-Energy Consumption	5.92	6.99	7.73	7.36	8.40	8.52
Final Energy Consumption	34.35	37.53	36.58	37.63	34.20	35.78
by Fuel/Product						
Solid Fuels	3.33	3.40	2.03	1.63	1.68	1.61
Petroleum and Products	16.03	16.54	16.52	16.10	14.55	15.72
Gases	8.44	9.89	9.94	10.44	8.63	9.20
Biomass and Renewable Wastes	0.35	0.41	0.64	1.52	1.65	1.55
Solar	0.00	0.00	0.00	0.01	0.02	0.02
Geothermal					0.00	0.00
Electricity	5.89	6.67	6.90	7.16	6.98	7.03
Derived heat	0.23	0.49	0.43	0.64	0.53	0.51
Wastes, Non-Renewable	0.09	0.12	0.12	0.14	0.16	0.14
by Sector						
Industry	11.91	14.10	11.71	12.06	11.92	11.89
Transport	8.57	9.66	9.95	10.35	9.90	10.44
Residential	9.30	9.47	9.93	9.41	7.40	8.14
Services	3.46	3.48	4.15	5.03	4.23	4.56
Agriculture and Fishing	1.10	0.78	0.81	0.76	0.71	0.72
Other	0.00	0.03	0.03	0.03	0.04	0.03

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	14.92	15.69	16.10	18.69	20.93	21.15
Combustible Fuels	7.88	8.55	8.71	9.52	8.60	8.51
Nuclear	5.63	5.71	5.80	5.93	5.93	5.91
Hydro	1.40	1.41	1.41	1.43	1.43	1.42
Wind	0.01	0.01	0.17	0.91	1.94	2.18
Solar PV	0.00	0.00	0.00	0.90	3.03	3.12
Geothermal					0.00	0.00
Tide, Wave and Ocean						
Other Sources					0.00	0.00
Gross Electricity Generation (TWh)	74.41	84.01	87.03	95.19	72.67	70.65
Solid Fuels	16.52	12.92	8.20	4.20	2.23	2.21
Petroleum and Products	1.31	0.80	1.74	0.41	0.22	0.21
Gases	12.94	19.09	25.14	33.18	21.49	24.85
Nuclear	41.36	48.16	47.60	47.94	33.70	26.10
Renewables	1.56	2.28	3.42	7.85	13.38	15.57
Wastes, non-RES	0.72	0.77	0.66	1.36	1.25	1.25
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			1.89	2.58	2.40	2.4
CHP Electricity Generation (TWh)			7.36	15.20	12.20	12.5
CHP in Total Electricity Generation (%)			8.5%	16.0%	16.8%	17.7%
CHP Heat Production (PJ)			75.86	0.00	107.36	104.4
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	8439.9	9536.5	9802.7	9747.7	9316.7	9996.1
Motor Gasoline	2977.3	2359.3	1846.5	1235.9	1242.2	1321.0
Gas/Diesel Oil	4282.6	5416.1	6522.1	7074.6	6692.0	7154.9
Final Consumption Biofuels				366.0	419.2	261.2
Biogasoline				57.1	39.2	40.6
Biodiesel				308.9	380.0	220.6
Main Energy Indicators						
Energy Intensity (toe/M€'10)	199.3	190.4	173.3	166.8	141.6	141.3
Energy per Capita (kgoe/cap)	5313.7	5791.8	5653.9	5618.3	4789.4	4824.7
Final Electricity per Capita (KWh/cap)	6756.6	7573.1	7677.9	7685.6	7258.2	7271.7
Primary Energy Intensity (toe/M€'10)	177.4	168.0	150.6	146.7	119.4	119.1
Import Dependency (%)	80.8%	78.1%	80.1%	78.2%	80.0%	84.3%
of Solid Fuels	108.9%	91.2%	101.3%	98.3%	101.6%	97.2%
of Hard Coal	108.5%	90.4%	100.9%	100.7%	103.2%	96.5%
of Petroleum Fuels	99.6%	100.2%	100.8%	101.4%	101.1%	103.8%
of Crude and NGL	99.8%	100.2%	99.5%	99.9%	100.1%	100.0%
of Natural Gas	98.2%	99.3%	100.5%	100.3%	101.2%	99.3%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			2.3%	5.7%	8.0%	7.9%
RES-H&C – Heating and Cooling			3.4%	6.1%	7.7%	7.6%
RES-E – Electricity Generation			2.4%	7.1%	13.4%	15.4%
RES-T – Transport			0.6%	4.7%	5.7%	3.8%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	128.67	131.21	128.94	117.53	100.59	104.42
GHGs Emissions*	157.27	154.19	148.68	136.64	118.15	121.64
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	12701.2	12815.0	12343.6	10842.6	8996.5	9292.6
Carbon Intensity (kg CO ₂ /toe)	2230.0	2029.8	1933.4	1715.9	1706.9	1739.3
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	476.4	421.3	378.4	321.9	266.1	272.2

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.2 Bulgaria

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	10.27	9.87	10.70	10.53	11.31	12.13
Solid Fuels	5.29	4.30	4.18	4.94	5.12	5.87
of which Hard Coal	0.97	0.05	0.00	0.02	0.01	0.03
Petroleum and Products	0.06	0.07	0.13	0.06	0.06	0.14
of which Crude and NGL	0.04	0.04	0.03	0.02	0.03	0.02
Gases	0.04	0.01	0.38	0.06	0.16	0.09
of which Natural Gas	0.04	0.01	0.38	0.06	0.16	0.09
Nuclear	4.46	4.70	4.83	3.96	4.11	3.98
Renewables	0.42	0.78	1.12	1.50	1.84	2.03
Wastes, Non-Renewable	0.00	0.01	0.06	0.01	0.02	0.03
Net Imports	12.83	8.54	9.28	7.08	6.16	6.59
Solid Fuels	2.42	2.26	2.55	1.70	0.93	0.74
of which Hard Coal	2.35	2.25	2.49	1.67	0.89	0.70
Petroleum and Products	5.87	3.94	4.94	4.03	3.88	4.25
of which Crude and NGL	7.39	5.18	5.84	5.37	5.02	5.91
Gases	4.56	2.74	2.46	2.13	2.22	2.52
of which Natural Gas	4.56	2.74	2.46	2.13	2.22	2.52
Renewables	-0.01	0.00	-0.03	-0.06	-0.06	-0.02
Electricity	-0.01	-0.40	-0.65	-0.73	-0.81	-0.91
Gross Inland Consumption	22.69	18.52	19.75	17.77	17.74	18.51
Solid Fuels	7.62	6.43	6.90	6.89	6.40	6.62
of which Hard Coal	3.21	2.23	2.63	1.89	1.21	0.74
Petroleum and Products	5.63	4.07	4.72	3.89	3.88	4.20
of which Crude and NGL	7.41	5.25	5.98	5.41	5.07	5.88
Gases	4.58	2.93	2.80	2.30	2.36	2.60
of which Natural Gas	4.58	2.93	2.80	2.30	2.36	2.60
Nuclear	4.46	4.70	4.83	3.96	4.11	3.98
Renewables	0.41	0.78	1.10	1.46	1.79	1.99
Electricity	-0.01	-0.40	-0.65	-0.73	-0.81	-0.91
Wastes, Non-Renewable	0.00	0.01	0.06	0.01	0.02	0.03
Primary Energy Consumption	21.46	17.54	18.91	17.35	17.23	17.90
Available for Final Consumption	12.93	9.99	10.56	8.79	8.95	9.65
Final Non-Energy Consumption	1.23	0.98	0.85	0.42	0.51	0.61
Final Energy Consumption	11.42	9.11	10.19	8.84	9.01	9.51
by Fuel/Product						
Solid Fuels	1.26	0.88	0.98	0.41	0.32	0.33
Petroleum and Products	2.93	3.03	3.72	3.13	3.06	3.37
Gases	1.79	1.68	1.57	1.06	1.20	1.31
Biomass and Renewable Wastes	0.18	0.55	0.69	0.91	1.07	1.15
Solar			0.00	0.01	0.02	0.02
Geothermal			0.03	0.03	0.03	0.03
Electricity	2.47	2.09	2.21	2.33	2.38	2.44
Derived heat	2.80	0.88	0.94	0.96	0.90	0.82
Wastes, Non-Renewable	0.00	0.01	0.05	0.01	0.02	0.03
by Sector						
Industry	6.01	3.97	4.04	2.56	2.62	2.71
Transport	1.85	2.01	2.90	2.86	3.11	3.40
Residential	2.47	2.16	2.12	2.25	2.17	2.20
Services	0.19	0.65	0.82	0.99	0.93	0.99
Agriculture and Fishing	0.38	0.31	0.30	0.19	0.19	0.19
Other	0.51	0.01	0.00	0.00	0.00	0.02

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	1.98	11.09	12.26	10.03	11.39	10.91
Combustible Fuels	0.00	5.67	6.68	4.58	4.47	3.99
Nuclear	0.00	3.53	2.72	1.89	1.98	1.98
Hydro	1.98	1.88	2.85	3.05	3.22	3.22
Wind	0.00	0.00	0.01	0.49	0.70	0.70
Solar PV	0.00	0.00	0.00	0.03	1.03	1.03
Geothermal						
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	41.79	40.92	44.37	46.65	47.49	49.23
Solid Fuels	17.32	16.94	18.46	22.61	21.31	22.52
Petroleum and Products	1.44	0.66	0.61	0.39	0.21	0.18
Gases	3.45	2.18	1.90	1.97	2.14	1.86
Nuclear	17.26	18.18	18.65	15.25	15.87	15.38
Renewables	2.31	2.95	4.74	6.42	7.95	9.25
Wastes, non-RES	0.00	0.02	0.02	0.00	0.00	0.00
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			1.2	1.0	0.9	1.1
CHP Electricity Generation (TWh)			2.7	3.7	3.0	2.9
CHP in Total Electricity Generation (%)			6.1%	8.0%	6.2%	6.0%
CHP Heat Production (PJ)			50.4	40.4	33.4	31.9
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 775.7	1 803.5	2 624.4	2 607.7	2 702.4	2 987.3
Motor Gasoline	1 161.4	706.7	571.2	610.6	505.5	520.2
Gas/Diesel Oil	277.7	778.7	1 416.1	1 440.7	1 584.2	1 814.5
Final Consumption Biofuels				13.5	110.7	146.2
Biogasoline					14.8	32.2
Biodiesel				10.5	95.9	114.0
Main Energy Indicators						
Energy Intensity (toe/M€'10)	947.0	758.8	614.0	464.9	445.5	448.5
Energy per Capita (kgoe/cap)	2 692.3	2 261.4	2 569.3	2 394.8	2 448.9	2 570.2
Final Electricity per Capita (KWh/cap)	3 404.2	2 960.7	3 344.7	3 651.8	3 819.4	3 933.0
Primary Energy Intensity (toe/M€'10)	895.5	718.7	587.6	453.9	432.6	433.8
Import Dependency (%)	55.9%	46.0%	46.7%	39.6%	34.5%	35.4%
of Solid Fuels	31.8%	35.1%	37.0%	24.7%	14.5%	11.2%
of Hard Coal	73.0%	100.5%	94.7%	88.3%	73.9%	94.9%
of Petroleum Fuels	99.6%	95.4%	102.2%	101.1%	97.9%	99.1%
of Crude and NGL	99.7%	98.7%	97.7%	99.1%	99.0%	100.5%
of Natural Gas	99.5%	93.6%	87.7%	92.7%	94.0%	97.0%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			9.4%	14.1%	18.0%	18.2%
RES-H&C – Heating and Cooling			14.3%	24.4%	28.3%	28.6%
RES-E – Electricity Generation			9.3%	12.7%	18.9%	19.1%
RES-T – Transport			0.8%	1.4%	5.8%	6.5%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	58.43	45.40	51.15	48.26	45.70	48.83
GHGs Emissions*	75.32	59.61	64.26	60.81	58.02	62.02
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	6 933.0	5 543.1	6 652.3	6 503.0	6 307.2	6 779.5
Carbon Intensity (kg CO ₂ /toe)	2 545.2	2 442.4	2 574.4	2 700.8	2 563.8	2 625.4
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	2 438.7	1 859.9	1 589.7	1 262.4	1 147.3	1 183.0

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.3 Czech Republic

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	32.69	30.81	33.17	32.03	29.81	29.05
Solid Fuels	27.57	25.05	23.57	20.83	16.98	17.06
of which Hard Coal	10.80	9.42	8.41	7.50	5.73	5.57
Petroleum and Products	0.30	0.39	0.59	0.30	0.33	0.28
of which Crude and NGL	0.15	0.17	0.31	0.18	0.15	0.13
Gases	0.20	0.17	0.15	0.20	0.21	0.21
of which Natural Gas	0.20	0.17	0.15	0.20	0.21	0.21
Nuclear	3.16	3.51	6.41	7.25	7.84	6.95
Renewables	1.43	1.61	2.27	3.25	4.20	4.28
Wastes, Non-Renewable	0.03	0.09	0.17	0.20	0.25	0.28
Net Imports	8.60	9.41	12.64	11.59	12.79	13.54
Solid Fuels	-5.78	-4.72	-3.27	-2.83	-0.68	-0.29
of which Hard Coal	-2.86	-3.52	-2.77	-2.73	-0.85	-0.46
Petroleum and Products	7.91	7.51	9.65	8.98	8.93	8.75
of which Crude and NGL	6.96	5.57	7.65	7.81	7.48	7.24
Gases	6.42	7.48	7.54	6.85	5.95	6.16
of which Natural Gas	6.42	7.48	7.54	6.85	5.95	6.16
Renewables	0.01	0.00	-0.19	-0.12	-0.02	-0.01
Electricity	0.04	-0.86	-1.09	-1.29	-1.40	-1.08
Gross Inland Consumption	41.94	41.37	45.43	45.43	42.24	42.44
Solid Fuels	22.66	21.64	20.25	18.77	16.04	16.58
of which Hard Coal	8.35	6.28	5.61	5.03	4.69	5.03
Petroleum and Products	8.08	7.88	9.90	9.30	9.15	8.96
of which Crude and NGL	6.95	5.85	7.70	8.01	7.62	7.35
Gases	6.55	7.50	7.70	8.07	6.18	6.48
of which Natural Gas	6.55	7.50	7.70	8.07	6.18	6.48
Nuclear	3.16	3.51	6.41	7.25	7.84	6.95
Renewables	1.43	1.62	2.09	3.13	4.18	4.28
Electricity	0.04	-0.86	-1.09	-1.29	-1.40	-1.08
Wastes, Non-Renewable	0.03	0.09	0.17	0.20	0.25	0.28
Primary Energy Consumption	39.63	39.27	42.48	42.50	39.29	39.93
Available for Final Consumption	28.09	27.50	29.55	29.01	26.58	27.37
Final Non-Energy Consumption	2.32	2.09	2.95	2.93	2.95	2.52
Final Energy Consumption	26.32	25.07	26.33	25.38	23.63	24.19
by Fuel/Product						
Solid Fuels	6.12	5.13	3.77	2.67	2.40	2.33
Petroleum and Products	5.09	5.32	6.82	6.58	6.45	6.72
Gases	6.17	6.49	6.74	6.53	5.23	5.43
Biomass and Renewable Wastes	1.12	1.20	1.64	2.24	2.67	2.71
Solar	0.00	0.00	0.00	0.01	0.02	0.02
Geothermal					0.00	0.00
Electricity	4.13	4.25	4.75	4.66	4.59	4.68
Derived heat	3.66	2.62	2.48	2.53	2.08	2.08
Wastes, Non-Renewable	0.02	0.06	0.13	0.16	0.20	0.22
by Sector						
Industry	12.51	10.13	9.68	7.97	7.41	7.47
Transport	2.84	4.37	6.10	6.23	6.24	6.49
Residential	6.58	6.42	6.65	7.40	6.49	6.69
Services	2.42	2.97	3.11	3.15	2.80	2.85
Agriculture and Fishing	1.23	0.66	0.55	0.55	0.62	0.61
Other	0.74	0.52	0.25	0.08	0.07	0.07

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	13.80	15.32	17.41	20.07	21.92	21.87
Combustible Fuels	10.64	11.47	11.46	12.04	13.03	12.96
Nuclear	1.76	1.76	3.76	3.90	4.29	4.29
Hydro	1.40	2.10	2.17	2.20	2.25	2.26
Wind	0.00	0.00	0.02	0.21	0.28	0.28
Solar PV	0.00	0.00	0.00	1.73	2.07	2.08
Geothermal						
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	60.85	73.47	82.58	85.90	86.15	83.89
Solid Fuels	44.34	52.75	49.52	46.90	40.73	41.14
Petroleum and Products	0.59	0.37	0.33	0.20	0.11	0.09
Gases	1.00	3.91	4.22	4.20	4.61	4.96
Nuclear	12.23	13.59	24.73	28.00	30.33	26.84
Renewables	2.68	2.84	3.78	6.49	10.22	10.70
Wastes, non-RES	0.00	0.01	0.01	0.03	0.07	0.08
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			5.20	4.79	4.63	4.6
CHP Electricity Generation (TWh)			13.87	12.24	11.80	11.8
CHP in Total Electricity Generation (%)			16.8%	14.2%	13.7%	14.0%
CHP Heat Production (PJ)			150.67	135.67	105.63	106.0
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	2601.5	4076.4	5865.9	5783.8	5728.9	5986.7
Motor Gasoline	1693.8	1921.5	2125.3	1868.0	1557.9	1570.5
Gas/Diesel Oil	703.6	1886.4	3321.9	3491.8	3757.1	3980.6
Final Consumption Biofuels	15.9	61.9	2.7	231.2	316.8	296.5
Biogasoline	0.0	0.0	0.0	58.0	65.8	63.2
Biodiesel	15.9	61.9	2.7	173.2	251.0	233.3
Main Energy Indicators						
Energy Intensity (toe/M€'10)	400.5	361.6	327.6	290.5	261.2	251.0
Energy per Capita (kgoe/cap)	4059.1	4024.8	4453.9	4342.2	4018.1	4027.4
Final Electricity per Capita (KWh/cap)	4653.2	4804.5	5421.3	5182.8	5081.6	5169.2
Primary Energy Intensity (toe/M€'10)	378.4	343.3	306.3	271.8	242.9	236.1
Import Dependency (%)	20.5%	22.8%	27.8%	25.5%	30.3%	31.9%
of Solid Fuels	-25.5%	-21.8%	-16.1%	-15.1%	-4.2%	-1.8%
of Hard Coal	-34.2%	-56.1%	-49.4%	-54.3%	-18.1%	-9.1%
of Petroleum Fuels	98.0%	95.3%	97.5%	96.5%	97.6%	97.8%
of Crude and NGL	100.2%	95.2%	99.3%	97.6%	98.2%	98.4%
of Natural Gas	98.0%	99.8%	97.8%	84.8%	96.3%	95.1%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			7.1%	10.5%	15.1%	15.1%
RES-H&C – Heating and Cooling			10.9%	14.1%	19.6%	19.8%
RES-E – Electricity Generation			3.7%	7.5%	13.9%	14.1%
RES-T – Transport			0.9%	5.1%	6.9%	6.5%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	132.04	127.53	126.61	118.08	104.45	105.46
GHGs Emissions*	157.62	149.97	148.59	140.56	127.50	128.82
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	12778.3	12408.2	12414.4	11286.8	9936.1	10006.9
Carbon Intensity (kg CO ₂ /toe)	3148.1	3083.0	2787.3	2599.3	2472.8	2484.7
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	1260.9	1114.9	913.1	755.2	645.8	623.7

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.4 Denmark

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	16.26	28.77	30.78	22.92	15.75	15.72
Solid Fuels						
of which Hard Coal						
Petroleum and Products	9.99	19.28	18.46	12.04	8.09	7.66
of which Crude and NGL	9.29	18.09	18.46	12.04	8.08	7.65
Gases	4.73	7.43	9.40	7.36	4.15	4.16
of which Natural Gas	4.70	7.41	9.38	7.34	4.14	4.14
Nuclear						
Renewables	1.29	1.74	2.51	3.11	3.13	3.53
Wastes, Non-Renewable	0.25	0.33	0.41	0.41	0.38	0.38
Net Imports	7.27	-7.37	-10.13	-3.25	2.15	2.30
Solid Fuels	7.66	3.78	3.51	2.64	2.53	1.47
of which Hard Coal	7.63	3.75	3.48	2.63	2.51	1.46
Petroleum and Products	1.17	-8.39	-9.07	-3.59	-0.68	0.42
of which Crude and NGL	0.62	-9.86	-10.87	-4.94	-1.33	-0.36
Gases	-1.50	-2.88	-5.01	-3.02	-1.31	-1.38
of which Natural Gas	-1.50	-2.88	-5.01	-3.02	-1.31	-1.38
Renewables	0.01	0.06	0.33	0.81	1.33	1.23
Electricity	-0.07	0.06	0.12	-0.10	0.25	0.51
Gross Inland Consumption	20.20	19.74	19.56	20.04	16.80	16.77
Solid Fuels	6.50	3.99	3.71	3.81	2.41	1.73
of which Hard Coal	6.47	3.96	3.69	3.79	2.39	1.72
Petroleum and Products	9.03	9.10	8.06	7.57	6.44	6.47
of which Crude and NGL	9.77	8.18	7.70	7.18	6.88	7.22
Gases	3.20	4.47	4.41	4.44	2.82	2.87
of which Natural Gas	3.17	4.45	4.40	4.42	2.80	2.85
Nuclear						
Renewables	1.30	1.80	2.84	3.92	4.47	4.76
Electricity	-0.07	0.06	0.12	-0.10	0.25	0.51
Wastes, Non-Renewable	0.25	0.33	0.41	0.41	0.42	0.43
Primary Energy Consumption	19.88	19.44	19.27	19.78	16.55	16.51
Available for Final Consumption	15.03	15.02	15.47	15.67	13.71	14.10
Final Non-Energy Consumption	0.32	0.30	0.29	0.26	0.25	0.25
Final Energy Consumption	14.82	14.72	15.50	15.52	13.52	13.95
by Fuel/Product						
Solid Fuels	0.38	0.29	0.25	0.14	0.13	0.12
Petroleum and Products	7.26	7.06	7.30	6.75	5.75	5.84
Gases	1.69	1.67	1.71	1.75	1.44	1.47
Biomass and Renewable Wastes	0.58	0.63	0.91	1.26	1.24	1.43
Solar	0.01	0.01	0.01	0.01	0.01	0.01
Geothermal				0.00	0.00	0.00
Electricity	2.66	2.79	2.88	2.76	2.63	2.64
Derived heat	2.24	2.25	2.42	2.84	2.29	2.42
Wastes, Non-Renewable	0.01	0.02	0.03	0.02	0.02	0.02
by Sector						
Industry	3.00	2.92	2.85	2.41	2.09	2.11
Transport	4.54	4.82	5.32	5.18	4.90	4.95
Residential	4.48	4.16	4.45	4.91	3.96	4.25
Services	1.84	1.84	2.00	2.13	1.82	1.87
Agriculture and Fishing	0.94	0.96	0.86	0.88	0.74	0.76
Other	0.02	0.01	0.01	0.01	0.01	0.01

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	10.82	12.32	13.04	13.44	13.62	14.01
Combustible Fuels	10.21	9.92	9.89	9.62	8.12	8.14
Nuclear						
Hydro	0.01	0.01	0.01	0.01	0.01	0.01
Wind	0.60	2.39	3.13	3.80	4.89	5.08
Solar PV	0.00	0.00	0.00	0.01	0.61	0.78
Geothermal					0.00	0.00
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	36.76	36.05	36.25	38.86	32.18	28.95
Solid Fuels	27.36	16.67	15.46	17.01	11.06	7.11
Petroleum and Products	3.63	4.44	1.38	0.77	0.32	0.31
Gases	3.64	8.77	8.78	7.91	2.09	1.82
Nuclear						
Renewables	1.85	5.57	9.81	12.43	17.99	18.96
Wastes, non-RES	0.27	0.56	0.82	0.75	0.72	0.75
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			5.69	5.81	6.17	6.1
CHP Electricity Generation (TWh)			18.89	19.10	11.49	11.6
CHP in Total Electricity Generation (%)			52.1%	49.2%	35.7%	40.0%
CHP Heat Production (PJ)			118.98	124.74	91.12	93.3
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	4521.7	4785.8	5292.1	5117.9	4635.3	4681.4
Motor Gasoline	1943.7	2019.1	1921.8	1574.4	1321.3	1317.1
Gas/Diesel Oil	1814.4	1863.3	2372.2	2648.6	2343.7	2432.4
Final Consumption Biofuels				26.8	231.1	232.0
Biogasoline				26.8	0.0	0.0
Biodiesel				0.0	231.1	232.0
Main Energy Indicators						
Energy Intensity (toe/M€'10)	104.1	87.6	81.3	82.4	66.3	65.1
Energy per Capita (kgoe/cap)	3873.5	3702.8	3613.8	3621.5	2986.0	2962.3
Final Electricity per Capita (KWh/cap)	5921.5	6089.5	6183.6	5792.1	5425.4	5424.3
Primary Energy Intensity (toe/M€'10)	102.4	86.3	80.1	81.3	65.3	64.1
Import Dependency (%)	33.4%	-35.0%	-49.8%	-15.7%	12.2%	13.1%
of Solid Fuels	117.9%	94.9%	94.4%	69.4%	104.9%	85.0%
of Hard Coal	118.0%	94.7%	94.3%	69.3%	104.9%	85.0%
of Petroleum Fuels	11.0%	-80.8%	-102.7%	-43.4%	-9.5%	5.8%
of Crude and NGL	6.3%	-120.5%	-141.3%	-68.8%	-19.4%	-5.0%
of Natural Gas	-47.2%	-64.8%	-113.9%	-68.3%	-46.9%	-48.2%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			16.0%	22.1%	29.3%	30.8%
RES-H&C – Heating and Cooling			22.8%	31.0%	37.9%	39.6%
RES-E – Electricity Generation			24.6%	32.7%	48.5%	51.3%
RES-T – Transport			0.4%	1.1%	6.7%	6.7%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	64.58	57.48	54.79	52.13	40.55	38.18
GHGs Emissions*	80.12	73.12	68.93	65.64	53.51	50.98
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	12380.9	10784.7	10125.1	9418.3	7206.3	6746.8
Carbon Intensity (kg CO ₂ /toe)	2964.9	2734.9	2696.4	2514.5	2312.1	2178.0
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	332.6	255.2	227.7	214.4	160.0	148.3

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.5 Germany

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	145.26	135.60	139.11	133.04	124.69	124.23
Solid Fuels	78.94	60.63	56.48	45.91	44.13	43.00
of which Hard Coal	38.10	24.16	18.03	9.25	5.50	4.60
Petroleum and Products	4.30	4.73	7.54	8.15	8.32	8.08
of which Crude and NGL	2.97	3.20	3.46	2.47	2.43	2.38
Gases	15.10	15.82	14.33	11.11	6.86	6.34
of which Natural Gas	15.10	15.80	14.33	11.11	6.86	6.34
Nuclear	39.51	43.75	42.06	36.26	25.06	23.68
Renewables	5.98	8.98	16.85	27.71	36.02	38.89
Wastes, Non-Renewable	1.44	1.68	1.85	3.91	4.30	4.25
Net Imports	195.18	204.71	208.19	201.99	194.75	196.02
Solid Fuels	10.27	21.66	25.97	31.65	35.66	36.17
of which Hard Coal	8.17	17.19	23.76	29.15	34.51	35.22
Petroleum and Products	131.60	125.92	120.32	110.13	105.94	105.86
of which Crude and NGL	101.60	101.44	111.12	91.91	89.26	89.77
Gases	52.90	56.87	61.94	61.65	56.67	58.68
of which Natural Gas	52.90	56.87	61.94	61.65	56.67	58.68
Renewables	0.00	0.00	0.36	-0.14	-0.61	-0.53
Electricity	0.42	0.26	-0.39	-1.29	-2.91	-4.15
Gross Inland Consumption	341.64	342.33	341.93	332.49	313.24	314.20
Solid Fuels	91.64	84.80	81.95	78.82	79.62	79.52
of which Hard Coal	47.71	43.80	41.30	39.57	39.89	40.19
Petroleum and Products	135.37	130.98	121.48	111.32	108.40	107.41
of which Crude and NGL	104.82	108.09	114.25	94.48	91.48	92.43
Gases	67.30	71.88	77.78	75.91	63.37	65.15
of which Natural Gas	67.30	71.85	77.78	75.91	63.37	65.15
Nuclear	39.51	43.75	42.06	36.26	25.06	23.68
Renewables	5.98	8.98	17.21	27.57	35.41	38.35
Electricity	0.42	0.26	-0.39	-1.29	-2.91	-4.15
Wastes, Non-Renewable	1.44	1.68	1.85	3.91	4.30	4.25
Primary Energy Consumption	318.02	317.27	317.26	309.91	291.11	292.94
Available for Final Consumption	244.01	247.33	247.18	242.63	229.87	233.14
Final Non-Energy Consumption	23.62	25.06	24.66	22.58	22.13	21.27
Final Energy Consumption	221.62	220.01	218.46	219.65	208.88	212.12
by Fuel/Product						
Solid Fuels	13.89	10.96	8.24	9.38	9.73	10.40
Petroleum and Products	105.63	99.74	90.31	83.17	81.90	81.12
Gases	51.83	56.08	55.14	56.43	49.76	51.76
Biomass and Renewable Wastes	2.69	4.72	8.54	12.14	12.52	13.22
Solar	0.04	0.11	0.26	0.48	0.63	0.67
Geothermal	0.00	0.00	0.04	0.05	0.08	0.07
Electricity	38.80	41.57	44.91	45.78	44.10	44.26
Derived heat	8.75	6.83	10.75	11.27	9.15	9.59
Wastes, Non-Renewable	0.00	0.00	0.28	0.95	1.02	1.03
by Sector						
Industry	60.14	57.57	59.09	60.56	60.72	60.95
Transport	63.66	66.77	62.32	61.10	63.47	63.17
Residential	66.25	65.24	63.50	62.45	51.53	53.17
Services	25.89	25.79	33.19	35.36	33.04	34.72
Agriculture and Fishing	1.99	0.29	0.02	0.00	0.00	0.00
Other	3.69	4.35	0.34	0.18	0.13	0.12

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	116.23	118.88	128.61	162.70	198.42	204.05
Combustible Fuels	83.36	80.79	76.38	85.82	97.20	96.97
Nuclear	22.83	22.40	20.38	20.47	12.07	10.80
Hydro	8.88	9.49	10.86	11.22	11.23	11.40
Wind	1.14	6.10	18.38	27.18	39.19	44.67
Solar PV	0.02	0.11	2.06	17.55	38.23	39.79
Geothermal				0.01	0.02	0.03
Tide, Wave and Ocean						
Other Sources	0.00	0.00	0.57	0.45	0.45	0.40
Gross Electricity Generation (TWh)	537.28	576.54	622.58	632.98	627.80	646.89
Solid Fuels	289.14	296.69	288.14	262.90	274.41	272.20
Petroleum and Products	8.98	4.79	12.00	8.74	5.66	6.21
Gases	50.40	59.97	83.61	100.91	72.77	74.53
Nuclear	153.09	169.61	163.06	140.56	97.13	91.79
Renewables	30.40	39.71	69.28	111.21	168.37	193.29
Wastes, non-RES	5.26	5.79	3.25	6.35	7.43	7.06
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			20.8		37.2	37.1
CHP Electricity Generation (TWh)			77.9	83.2	74.8	78.8
CHP in Total Electricity Generation (%)			12.5%	13.2%	11.9%	12.2%
CHP Heat Production (PJ)			652.5	675.8	651.4	669.9
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	622294	651393	584895	566600	592315	592046
Motor Gasoline	320589	306508	237215	188595	176822	169263
Gas/Diesel Oil	240987	270466	263644	284491	321753	329439
Final Consumption Biofuels	35.6	236.5	1858.9	2884.2	2739.6	2537.3
Biogasoline			153.0	749.0	779.1	744.2
Biodiesel	31.1	222.1	1551.7	2104.4	1957.0	1791.9
Main Energy Indicators						
Energy Intensity (toe/M€'10)	159.3	145.1	140.9	128.9	114.2	112.6
Energy per Capita (kgoe/cap)	4189.9	4166.5	4144.5	4064.5	3878.3	3869.6
Final Electricity per Capita (KWh/cap)	5533.7	5884.0	6330.4	6508.7	6349.5	6339.2
Primary Energy Intensity (toe/M€'10)	148.3	134.5	130.7	120.1	106.1	105.0
Import Dependency (%)	56.8%	59.4%	60.5%	60.3%	61.7%	61.9%
of Solid Fuels	11.2%	25.5%	31.7%	40.1%	44.8%	45.5%
of Hard Coal	17.1%	39.2%	57.5%	73.7%	86.5%	87.6%
of Petroleum Fuels	95.8%	94.6%	97.1%	96.5%	95.7%	96.4%
of Crude and NGL	96.9%	93.8%	97.3%	97.3%	97.6%	97.1%
of Natural Gas	78.6%	79.1%	79.6%	81.2%	89.4%	90.1%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			6.7%	10.5%	13.8%	14.6%
RES-H&C – Heating and Cooling			6.8%	9.8%	12.2%	12.9%
RES-E – Electricity Generation			10.5%	18.1%	28.2%	30.7%
RES-T – Transport			4.0%	6.4%	7.3%	6.8%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	952.90	918.39	888.58	856.43	819.16	816.37
GHGs Emissions*	1135.75	1062.24	1014.86	965.97	928.83	926.48
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	11686.5	11177.6	10770.6	10469.5	10142.2	10054.1
Carbon Intensity (kg CO ₂ /toe)	2772.5	2665.7	2580.1	2554.7	2596.1	2578.6
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	444.2	389.4	366.2	331.9	298.5	292.5

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.6 Estonia

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	3.89	3.55	4.39	5.60	6.58	6.50
Solid Fuels	3.06	2.67	3.18	3.94	4.53	4.20
of which Hard Coal						
Petroleum and Products	0.48	0.37	0.52	0.67	0.80	0.95
of which Crude and NGL						
Gases						
of which Natural Gas						
Nuclear						
Renewables	0.35	0.51	0.69	0.99	1.19	1.29
Wastes, Non-Renewable					0.07	0.07
Net Imports	1.81	1.63	1.50	0.87	0.62	0.48
Solid Fuels	0.30	0.27	0.02	-0.02	0.01	-0.01
of which Hard Coal	0.05	0.06	0.04	0.05	0.05	0.01
Petroleum and Products	1.01	0.79	0.92	0.76	0.73	0.55
of which Crude and NGL						
Gases	0.58	0.66	0.80	0.56	0.44	0.39
of which Natural Gas	0.58	0.66	0.80	0.56	0.44	0.39
Renewables	-0.01	-0.01	-0.11	-0.15	-0.32	-0.37
Electricity	-0.07	-0.08	-0.14	-0.28	-0.24	-0.08
Gross Inland Consumption	5.53	4.97	5.62	6.15	6.68	6.26
Solid Fuels	3.50	2.97	3.19	3.92	4.45	3.85
of which Hard Coal	0.05	0.06	0.04	0.04	0.05	0.02
Petroleum and Products	1.17	0.91	1.18	1.10	1.10	1.12
of which Crude and NGL						
Gases	0.58	0.66	0.80	0.56	0.44	0.39
of which Natural Gas	0.58	0.66	0.80	0.56	0.44	0.39
Nuclear						
Renewables	0.34	0.51	0.59	0.85	0.86	0.91
Electricity	-0.07	-0.08	-0.14	-0.28	-0.24	-0.08
Wastes, Non-Renewable	0.00	0.00	0.00	0.00	0.07	0.07
Primary Energy Consumption	5.35	4.79	5.39	6.06	6.57	6.16
Available for Final Consumption	3.04	2.69	3.00	3.02	3.15	3.03
Final Non-Energy Consumption	0.18	0.18	0.23	0.09	0.11	0.10
Final Energy Consumption	2.56	2.43	2.88	2.91	2.82	2.77
by Fuel/Product						
Solid Fuels	0.19	0.12	0.12	0.08	0.09	0.04
Petroleum and Products	0.85	0.77	0.98	0.94	0.97	0.99
Gases	0.25	0.18	0.26	0.21	0.22	0.22
Biomass and Renewable Wastes	0.28	0.43	0.45	0.55	0.48	0.48
Solar	0.00	0.00	0.00	0.00	0.00	0.00
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.39	0.43	0.52	0.59	0.59	0.59
Derived heat	0.59	0.51	0.55	0.53	0.44	0.43
Wastes, Non-Renewable	0.00	0.00	0.00	0.00	0.02	0.01
by Sector						
Industry	0.84	0.57	0.72	0.58	0.56	0.52
Transport	0.50	0.59	0.77	0.79	0.78	0.79
Residential	0.96	0.93	0.89	1.03	0.89	0.86
Services	0.17	0.29	0.39	0.42	0.46	0.47
Agriculture and Fishing	0.08	0.06	0.11	0.10	0.13	0.13
Other	0.00	0.00	0.00	0.00	0.00	0.00

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	0.00	2.80	2.56	2.75	3.03	2.86
Combustible Fuels	0.00	2.80	2.52	2.64	2.75	2.55
Nuclear						
Hydro	0.00	0.00	0.01	0.01	0.01	0.01
Wind	0.00	0.00	0.03	0.11	0.28	0.30
Solar PV						
Geothermal						
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	8.69	8.51	10.21	12.96	12.45	10.42
Solid Fuels	8.29	7.68	9.30	11.17	10.36	8.04
Petroleum and Products	0.10	0.06	0.03	0.04	0.04	0.13
Gases	0.30	0.76	0.76	0.71	0.58	0.62
Nuclear						
Renewables	0.01	0.02	0.11	1.04	1.39	1.50
Wastes, non-RES	0.00	0.00	0.00	0.00	0.07	0.13
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.38	0.45	0.47	0.43
CHP Electricity Generation (TWh)			1.04	1.34	1.24	1.24
CHP in Total Electricity Generation (%)			10.2%	10.3%	10.0%	11.9%
CHP Heat Production (PJ)			11.46	12.32	12.66	12.5
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	487.3	578.0	765.1	777.6	768.8	774.5
Motor Gasoline	263.8	299.2	308.9	289.0	241.7	240.7
Gas/Diesel Oil	203.9	257.2	407.8	450.6	486.0	509.2
Final Consumption Biofuels					5.8	3.2
Biogasoline					5.8	3.2
Biodiesel						
Main Energy Indicators						
Energy Intensity (toe/M€'10)	696.4	466.4	373.9	417.9	387.7	358.0
Energy per Capita (kgoe/cap)	3815.4	3549.0	4132.2	4612.6	5074.4	4757.1
Final Electricity per Capita (KWh/cap)	3146.2	3578.9	4444.9	5181.2	5248.4	5211.2
Primary Energy Intensity (toe/M€'10)	674.1	449.5	358.6	411.8	381.4	352.4
Import Dependency (%)	32.3%	32.2%	26.1%	13.6%	8.9%	7.4%
of Solid Fuels	8.4%	9.1%	0.8%	-0.6%	0.2%	-0.3%
of Hard Coal	101.9%	116.4%	97.2%	117.9%	103.9%	26.3%
of Petroleum Fuels	80.2%	77.4%	70.8%	57.5%	51.6%	39.3%
of Crude and NGL						
of Natural Gas	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			17.5%	24.6%	26.3%	28.6%
RES-H&C – Heating and Cooling			32.2%	43.3%	45.2%	49.6%
RES-E – Electricity Generation			1.1%	10.4%	14.1%	15.1%
RES-T – Transport			0.2%	0.4%	0.4%	0.4%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	18.26	15.43	17.28	19.13	19.03	15.96
GHGs Emissions*	20.27	17.38	19.30	21.26	21.20	18.11
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	12606.6	11008.8	12716.9	14345.4	14464.4	12137.4
Carbon Intensity (kg CO ₂ /toe)	3251.7	3037.8	3013.2	3004.0	2720.5	2438.7
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	2301.1	1446.8	1150.7	1299.7	1105.0	913.4

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.7 Ireland

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	4.10	2.16	1.65	1.88	2.12	2.00
Solid Fuels	1.70	0.97	0.82	0.98	0.97	0.76
of which Hard Coal	0.00					
Petroleum and Products	0.00	0.00	0.00	0.04	0.11	0.09
of which Crude and NGL						
Gases	2.25	0.96	0.46	0.22	0.12	0.11
of which Natural Gas	2.25	0.96	0.46	0.22	0.12	0.11
Nuclear						
Renewables	0.16	0.24	0.37	0.62	0.85	0.98
Wastes, Non-Renewable	0.00	0.00	0.00	0.01	0.06	0.06
Net Imports	7.77	12.37	13.77	13.21	11.68	12.72
Solid Fuels	1.88	1.68	1.89	0.95	1.20	1.46
of which Hard Coal	1.87	1.67	1.87	0.95	1.19	1.46
Petroleum and Products	5.80	8.20	8.69	7.70	6.59	7.49
of which Crude and NGL	2.27	2.98	3.16	2.98	2.70	3.69
Gases	0.09	2.48	3.01	4.48	3.59	3.62
of which Natural Gas	0.09	2.48	3.01	4.48	3.59	3.62
Renewables	0.00	0.00	0.00	0.04	0.11	0.09
Electricity	0.00	0.01	0.18	0.04	0.18	0.06
Gross Inland Consumption	11.07	14.43	15.27	15.17	13.56	14.18
Solid Fuels	2.90	2.60	2.66	1.93	2.01	2.19
of which Hard Coal	1.76	1.80	1.86	1.19	1.23	1.42
Petroleum and Products	5.68	8.15	8.59	7.84	6.62	7.04
of which Crude and NGL	2.27	3.32	3.20	2.94	2.75	3.41
Gases	2.33	3.44	3.47	4.69	3.72	3.75
of which Natural Gas	2.33	3.44	3.47	4.69	3.72	3.75
Nuclear						
Renewables	0.16	0.24	0.37	0.66	0.96	1.07
Electricity	0.00	0.01	0.18	0.04	0.19	0.06
Wastes, Non-Renewable	0.00	0.00	0.00	0.01	0.06	0.06
Primary Energy Consumption	10.49	13.75	14.75	14.82	13.35	13.96
Available for Final Consumption	8.30	11.05	12.02	12.20	11.07	11.63
Final Non-Energy Consumption	0.57	0.68	0.52	0.34	0.21	0.22
Final Energy Consumption	7.99	10.78	12.60	11.96	10.77	11.21
by Fuel/Product						
Solid Fuels	0.94	0.67	0.75	0.60	0.51	0.51
Petroleum and Products	4.89	7.05	8.20	7.27	6.19	6.47
Gases	0.80	1.20	1.36	1.59	1.62	1.72
Biomass and Renewable Wastes	0.09	0.12	0.18	0.29	0.32	0.32
Solar	0.00	0.00	0.00	0.01	0.01	0.01
Geothermal						
Electricity	1.28	1.75	2.09	2.19	2.08	2.16
Derived heat						
Wastes, Non-Renewable	0.00	0.00	0.00	0.01	0.04	0.04
by Sector						
Industry	1.95	2.50	2.58	2.15	2.24	2.41
Transport	2.39	4.09	5.08	4.72	4.47	4.62
Residential	2.22	2.51	2.95	3.30	2.59	2.71
Services	1.09	1.37	1.64	1.52	1.24	1.25
Agriculture and Fishing	0.34	0.32	0.34	0.28	0.22	0.22
Other	0.00	0.00	0.00	0.00	0.00	0.00

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	4.06	4.71	6.18	8.02	9.08	9.56
Combustible Fuels	3.54	4.06	5.13	6.41	6.34	6.59
Nuclear						
Hydro	0.52	0.53	0.53	0.24	0.53	0.53
Wind	0.01	0.12	0.52	1.37	2.21	2.44
Solar PV				0.00	0.00	0.00
Geothermal						
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	17.86	23.98	25.97	28.35	26.09	28.39
Solid Fuels	9.04	8.59	8.84	5.73	6.45	7.39
Petroleum and Products	2.68	4.64	3.34	0.60	0.26	0.41
Gases	5.16	9.26	11.57	18.11	12.64	12.37
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00
Renewables	0.98	1.49	2.22	3.91	6.67	8.15
Wastes, non-RES	0.00	0.00	0.00	0.00	0.07	0.07
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.11	0.29	0.31	0.3
CHP Electricity Generation (TWh)			0.60	1.92	2.04	2.1
CHP in Total Electricity Generation (%)			2.3%	6.7%	7.4%	7.5%
CHP Heat Production (PJ)			4.40	11.96	11.56	12.6
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	2385.9	4082.4	5075.4	4617.8	4381.4	4531.9
Motor Gasoline	1104.4	1590.0	1823.3	1527.2	1178.9	1020.3
Gas/Diesel Oil	851.3	1832.9	2369.8	2303.6	2438.1	2664.6
Final Consumption Biofuels			1.2	93.3	89.7	88.2
Biogasoline				30.4	24.7	24.1
Biodiesel			1.2	62.9	65.0	64.1
Main Energy Indicators						
Energy Intensity (toe/M€'10)	141.4	115.7	93.5	90.7	74.9	62.0
Energy per Capita (kgoe/cap)	3075.9	3818.9	3712.6	3333.6	2944.5	3062.9
Final Electricity per Capita (KWh/cap)	4127.7	5370.9	5922.7	5587.5	5240.7	5415.9
Primary Energy Intensity (toe/M€'10)	134.1	110.3	90.3	88.7	73.7	61.0
Import Dependency (%)	69.5%	84.8%	89.6%	86.6%	85.3%	88.7%
of Solid Fuels	64.9%	64.6%	70.8%	49.1%	60.0%	66.7%
of Hard Coal	105.9%	93.2%	100.8%	79.3%	96.7%	102.7%
of Petroleum Fuels	100.1%	98.8%	100.0%	97.2%	97.6%	103.9%
of Crude and NGL	100.2%	89.8%	98.8%	101.6%	98.1%	108.2%
of Natural Gas	3.6%	72.1%	86.7%	95.5%	96.5%	96.5%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			2.9%	5.6%	8.7%	9.2%
RES-H&C – Heating and Cooling			3.5%	4.5%	6.6%	6.4%
RES-E – Electricity Generation			7.2%	14.6%	22.9%	25.2%
RES-T – Transport			0.1%	2.4%	5.8%	6.5%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	36.94	47.00	50.53	43.95	38.86	40.92
GHGs Emissions*	60.94	70.90	72.51	64.03	60.01	62.43
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	10269.0	12442.8	12289.3	9659.5	8438.2	8839.0
Carbon Intensity (kg CO ₂ /toe)	3303.6	3224.0	3287.3	2881.5	2838.5	2853.8
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	472.2	377.1	309.4	262.9	214.5	178.9

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.8 Greece

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	9.36	10.01	10.33	9.46	8.85	8.51
Solid Fuels	7.51	8.22	8.54	7.32	6.38	5.68
of which Hard Coal						
Petroleum and Products	0.46	0.28	0.10	0.13	0.11	0.10
of which Crude and NGL	0.46	0.28	0.10	0.12	0.07	0.06
Gases	0.06	0.04	0.02	0.01	0.01	0.01
of which Natural Gas	0.04	0.04	0.02	0.01	0.01	0.01
Nuclear						
Renewables	1.29	1.40	1.64	1.97	2.33	2.64
Wastes, Non-Renewable	0.04	0.06	0.03	0.03	0.02	0.09
Net Imports	18.29	22.15	23.50	21.72	17.36	18.81
Solid Fuels	0.92	0.77	0.36	0.40	0.19	0.16
of which Hard Coal	0.92	0.77	0.39	0.40	0.19	0.16
Petroleum and Products	17.30	19.70	20.48	17.44	13.83	15.02
of which Crude and NGL	14.86	19.60	17.99	19.54	21.04	22.26
Gases	0.00	1.69	2.33	3.23	2.47	2.67
of which Natural Gas	0.00	1.69	2.33	3.23	2.47	2.67
Renewables	0.00	0.00	0.00	0.16	0.12	0.13
Electricity	0.07	0.00	0.33	0.49	0.76	0.83
Gross Inland Consumption	23.87	28.29	31.41	28.72	24.37	24.45
Solid Fuels	8.39	9.04	8.94	7.86	6.69	5.61
of which Hard Coal	0.96	0.73	0.34	0.40	0.17	0.17
Petroleum and Products	14.02	16.09	18.12	14.97	11.98	12.48
of which Crude and NGL	15.05	19.70	18.90	19.64	20.96	21.94
Gases	0.06	1.71	2.35	3.24	2.48	2.68
of which Natural Gas	0.04	1.71	2.35	3.24	2.48	2.68
Nuclear						
Renewables	1.29	1.40	1.64	2.13	2.45	2.78
Electricity	0.07	0.00	0.33	0.49	0.76	0.83
Wastes, Non-Renewable	0.04	0.06	0.03	0.03	0.02	0.09
Primary Energy Consumption	23.37	27.57	30.65	27.61	23.67	23.75
Available for Final Consumption	16.40	19.08	21.39	19.66	16.23	17.15
Final Non-Energy Consumption	0.49	0.72	0.76	1.11	0.71	0.70
Final Energy Consumption	15.81	18.68	20.96	19.00	15.52	16.50
by Fuel/Product						
Solid Fuels	1.04	0.89	0.46	0.30	0.23	0.22
Petroleum and Products	10.84	12.74	14.41	12.11	8.81	9.39
Gases	0.01	0.26	0.59	0.78	0.84	0.97
Biomass and Renewable Wastes	0.90	0.95	0.96	0.99	1.14	1.23
Solar	0.08	0.10	0.10	0.18	0.19	0.20
Geothermal	0.00	0.00	0.01	0.02	0.01	0.01
Electricity	2.93	3.71	4.38	4.57	4.26	4.37
Derived heat	0.00	0.03	0.05	0.05	0.05	0.05
Wastes, Non-Renewable						
by Sector						
Industry	4.01	4.45	4.16	3.47	3.09	3.13
Transport	6.52	7.30	8.19	8.16	6.41	6.58
Residential	3.33	4.50	5.51	4.62	3.79	4.40
Services	0.94	1.31	1.95	1.95	1.71	1.87
Agriculture and Fishing	1.01	1.12	1.15	0.80	0.28	0.27
Other	0.00	0.00	0.00	0.00	0.24	0.25

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	8.94	10.90	13.31	15.31	18.90	18.94
Combustible Fuels	6.39	7.61	9.71	10.60	10.93	10.86
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00
Hydro	2.52	3.07	3.11	3.22	3.39	3.39
Wind	0.03	0.23	0.49	1.30	1.98	2.09
Solar PV	0.00	0.00	0.00	0.20	2.60	2.60
Geothermal	0.00					
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	41.55	53.84	60.02	57.39	50.47	51.87
Solid Fuels	28.70	34.31	35.54	30.80	25.75	22.11
Petroleum and Products	8.86	8.89	9.21	6.09	5.54	5.66
Gases	0.08	5.92	8.17	9.83	6.78	9.09
Nuclear						
Renewables	3.82	4.56	7.00	10.55	12.31	14.90
Wastes, non-RES	0.10	0.16	0.10	0.13	0.10	0.11
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.24	0.59	0.55	0.6
CHP Electricity Generation (TWh)			1.02	2.48	1.89	2.0
CHP in Total Electricity Generation (%)			1.7%	4.3%	3.7%	3.9%
CHP Heat Production (PJ)			9.70	12.71	10.07	10.9
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	6504.1	7277.8	8156.9	8004.0	6235.2	6387.1
Motor Gasoline	2921.3	3463.9	4169.6	3867.4	2643.1	2573.7
Gas/Diesel Oil	2037.0	2247.1	2482.7	2729.9	2155.0	2253.7
Final Consumption Biofuels				123.9	134.5	141.5
Biogasoline						
Biodiesel				123.9	134.5	141.5
Main Energy Indicators						
Energy Intensity (toe/M€'10)	150.3	149.0	136.7	127.1	131.8	132.5
Energy per Capita (kgoe/cap)	2265.2	2625.6	2863.3	2582.7	2230.3	2251.7
Final Electricity per Capita (KWh/cap)	3235.3	4004.5	4640.3	4777.3	4530.1	4677.4
Primary Energy Intensity (toe/M€'10)	147.2	145.2	133.4	122.2	128.0	128.7
Import Dependency (%)	66.7%	69.5%	68.6%	69.1%	66.2%	71.7%
of Solid Fuels	11.0%	8.5%	4.1%	5.1%	2.9%	2.8%
of Hard Coal	95.2%	105.9%	112.5%	100.3%	109.8%	91.4%
of Petroleum Fuels	98.4%	100.2%	97.7%	98.7%	99.9%	105.4%
of Crude and NGL	98.8%	99.5%	95.2%	99.5%	100.4%	101.5%
of Natural Gas	0.0%	99.1%	99.1%	99.9%	99.3%	99.9%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			7.0%	9.8%	15.3%	15.4%
RES-H&C – Heating and Cooling			12.8%	17.9%	26.9%	25.9%
RES-E – Electricity Generation			8.2%	12.3%	21.9%	22.1%
RES-T – Transport			0.1%	1.9%	1.3%	1.4%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	89.58	105.51	116.53	99.93	81.49	77.83
GHGs Emissions*	111.79	128.87	138.88	120.92	102.21	98.61
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	8502.6	9791.4	10622.3	8986.8	7457.6	7168.2
Carbon Intensity (kg CO ₂ /toe)	3267.4	3310.9	3401.7	3179.6	3106.1	2967.1
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	564.2	555.6	507.1	442.1	440.8	421.9

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.9 Spain

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	31.43	31.49	30.09	34.53	35.10	33.60
Solid Fuels	10.15	7.97	6.27	3.30	1.63	1.25
of which Hard Coal	8.28	6.46	5.09	3.30	1.63	1.25
Petroleum and Products	0.80	0.24	0.21	0.36	0.46	0.40
of which Crude and NGL	0.80	0.23	0.17	0.12	0.30	0.23
Gases	0.45	0.23	0.19	0.08	0.02	0.05
of which Natural Gas	0.38	0.15	0.14	0.05	0.02	0.05
Nuclear	14.31	16.05	14.84	15.99	14.78	14.78
Renewables	5.51	6.82	8.40	14.64	18.00	16.87
Wastes, Non-Renewable	0.21	0.19	0.19	0.17	0.20	0.25
Net Imports	75.42	99.34	123.83	106.34	90.66	94.43
Solid Fuels	8.61	12.84	14.42	6.98	8.85	10.36
of which Hard Coal	8.09	13.25	14.74	7.09	8.77	10.23
Petroleum and Products	58.91	70.65	79.28	68.70	57.76	60.70
of which Crude and NGL	55.34	57.70	59.94	52.69	58.81	64.87
Gases	7.52	15.47	30.25	30.95	24.50	23.78
of which Natural Gas	7.52	15.47	30.25	30.95	24.50	23.78
Renewables				0.42	-0.16	-0.40
Electricity	0.39	0.38	-0.12	-0.72	-0.29	-0.01
Gross Inland Consumption	102.08	123.64	144.22	130.25	116.68	121.42
Solid Fuels	18.99	20.94	20.57	8.16	11.49	13.24
of which Hard Coal	16.68	19.83	19.82	8.30	11.42	13.08
Petroleum and Products	54.89	63.97	70.46	60.44	49.07	52.00
of which Crude and NGL	55.82	57.33	59.91	53.04	58.79	65.17
Gases	7.79	15.31	29.89	31.16	23.67	24.54
of which Natural Gas	7.72	15.22	29.84	31.13	23.67	24.54
Nuclear	14.31	16.05	14.84	15.99	14.78	14.78
Renewables	5.51	6.82	8.40	15.05	17.77	16.62
Electricity	0.39	0.38	-0.12	-0.72	-0.29	-0.01
Wastes, Non-Renewable	0.21	0.19	0.19	0.17	0.20	0.25
Primary Energy Consumption	94.20	114.25	135.87	123.22	112.57	117.11
Available for Final Consumption	72.46	88.79	105.95	95.95	81.44	83.18
Final Non-Energy Consumption	7.87	9.40	8.35	7.03	4.11	4.31
Final Energy Consumption	64.03	79.90	97.77	89.08	79.23	80.46
by Fuel/Product						
Solid Fuels	2.24	1.77	1.71	1.26	1.30	1.31
Petroleum and Products	39.51	46.31	53.46	46.79	38.80	40.47
Gases	6.84	12.14	17.98	14.65	14.52	13.45
Biomass and Renewable Wastes	3.23	3.43	3.72	5.14	4.83	4.99
Solar	0.03	0.03	0.06	0.18	0.26	0.28
Geothermal	0.00	0.01	0.01	0.02	0.02	0.02
Electricity	12.12	16.21	20.83	21.05	19.51	19.95
Derived heat						
Wastes, Non-Renewable	0.08					
by Sector						
Industry	20.54	25.38	30.98	21.45	20.01	18.92
Transport	26.44	33.23	39.94	37.19	31.99	33.60
Residential	10.01	12.00	15.13	16.92	14.71	14.88
Services	4.33	6.71	8.42	9.80	8.85	10.04
Agriculture and Fishing	2.20	2.57	3.11	2.24	2.77	2.49
Other	0.51	0.00	0.19	1.49	0.91	0.55

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	45.62	53.92	76.57	101.79	106.47	106.90
Combustible Fuels	21.94	26.24	40.80	50.46	49.79	49.35
Nuclear	7.07	7.50	7.58	7.45	7.40	7.40
Hydro	16.51	17.96	18.22	18.54	19.22	20.05
Wind	0.10	2.21	9.92	20.69	22.98	22.94
Solar PV	0.01	0.01	0.06	3.92	4.79	4.86
Geothermal						
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	167.09	224.47	294.08	301.53	278.75	281.02
Solid Fuels	65.91	79.09	79.05	25.33	43.81	51.37
Petroleum and Products	14.62	22.58	24.42	16.56	14.12	17.24
Gases	4.92	21.94	80.73	95.84	48.76	53.81
Nuclear	55.46	62.21	57.54	61.99	57.31	57.31
Renewables	25.87	38.05	46.90	100.98	114.07	100.32
Wastes, non-RES	0.31	0.61	0.45	0.66	0.69	0.77
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			3.05	3.38	3.91	3.5
CHP Electricity Generation (TWh)			22.88	22.42	23.29	22.7
CHP in Total Electricity Generation (%)			7.8%	7.4%	8.4%	8.1%
CHP Heat Production (PJ)			192.5	153.3	138.2	120.3
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	261005	327911	392269	354094	305956	318025
Motor Gasoline	9152.0	9141.3	7785.8	5695.6	4596.4	4623.2
Gas/Diesel Oil	13372.7	18858.7	25976.9	24171.5	20577.0	21383.4
Final Consumption Biofuels		70.3	255.7	1411.7	950.8	958.2
Biogasoline			113.3	230.4	186.3	188.8
Biodiesel		70.3	142.4	1181.3	764.5	769.4
Main Energy Indicators						
Energy Intensity (toe/M€'10)	143.7	142.5	140.7	120.5	112.7	113.7
Energy per Capita (kgoe/cap)	2,575.1	3,055.1	3,331.1	2,801.9	2,508.6	2,614.0
Final Electricity per Capita (KWh/cap)	3,554.8	4,656.7	5,594.5	5,266.1	4,878.2	4,995.5
Primary Energy Intensity (toe/M€'10)	132.6	131.6	132.5	114.0	108.8	109.6
Import Dependency (%)	71.7%	76.6%	81.4%	76.7%	72.9%	73.3%
of Solid Fuels	45.4%	61.3%	70.1%	85.5%	77.1%	78.3%
of Hard Coal	48.5%	66.8%	74.4%	85.4%	76.8%	78.2%
of Petroleum Fuels	101.5%	101.0%	101.2%	99.9%	101.7%	102.1%
of Crude and NGL	99.1%	100.6%	100.1%	99.3%	100.0%	99.5%
of Natural Gas	97.4%	101.6%	101.4%	99.4%	103.5%	96.9%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			8.4%	13.8%	16.1%	16.2%
RES-H&C – Heating and Cooling			9.4%	12.6%	15.7%	16.8%
RES-E – Electricity Generation			19.1%	29.8%	37.8%	36.9%
RES-T – Transport			1.3%	5.0%	0.8%	1.7%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	274.51	322.03	382.44	297.07	268.58	286.35
GHGs Emissions*	335.17	395.76	451.58	369.56	338.28	350.40
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	6,925.1	7,957.1	8,833.1	6,390.3	5,774.5	6,164.7
Carbon Intensity (kg CO ₂ /toe)	2,608.6	2,484.6	2,514.9	2,143.3	2,158.6	2,222.5
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	386.4	371.0	373.0	274.8	259.5	268.0

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.10 France

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	127.36	130.14	136.20	134.90	136.94	137.56
Solid Fuels	6.02	2.48	0.38	0.16	0.19	0.00
of which Hard Coal	5.44	2.36	0.38	0.16	0.19	0.00
Petroleum and Products	3.48	2.39	1.64	1.70	1.89	1.94
of which Crude and NGL	2.98	1.69	1.24	0.94	0.78	0.85
Gases	2.79	1.51	0.91	0.65	0.02	0.03
of which Natural Gas	2.79	1.51	0.91	0.65	0.02	0.03
Nuclear	97.31	107.09	116.47	110.54	112.59	112.84
Renewables	17.04	15.74	15.73	20.65	21.01	21.42
Wastes, Non-Renewable	0.72	0.93	1.06	1.20	1.24	1.35
Net Imports	117.06	134.08	143.96	131.95	115.33	116.84
Solid Fuels	9.14	13.01	13.51	12.19	9.21	8.69
of which Hard Coal	8.66	12.44	12.81	11.32	8.71	8.29
Petroleum and Products	86.44	91.27	94.97	82.69	77.74	78.65
of which Crude and NGL	78.65	86.84	85.22	64.95	54.90	58.18
Gases	27.49	35.78	40.72	39.55	33.79	34.59
of which Natural Gas	27.49	35.78	40.72	39.55	33.79	34.59
Renewables	0.00	0.01	-0.05	0.16	0.38	0.43
Electricity	-6.01	-5.97	-5.19	-2.64	-5.78	-5.51
Gross Inland Consumption	241.78	257.54	276.38	266.89	248.45	252.62
Solid Fuels	16.08	15.05	14.30	12.08	9.34	8.83
of which Hard Coal	14.94	14.24	13.80	11.25	8.93	8.56
Petroleum and Products	87.06	88.94	93.04	82.37	77.11	78.26
of which Crude and NGL	82.08	88.19	86.80	66.13	56.02	58.91
Gases	29.58	35.77	41.03	42.54	32.60	35.05
of which Natural Gas	29.58	35.77	41.03	42.54	32.60	35.05
Nuclear	97.31	107.09	116.47	110.54	112.59	112.84
Renewables	17.04	15.74	15.68	20.80	21.35	21.81
Electricity	-6.01	-5.97	-5.19	-2.64	-5.78	-5.51
Wastes, Non-Renewable	0.72	0.93	1.06	1.20	1.24	1.35
Primary Energy Consumption	225.92	241.36	260.27	252.94	234.59	239.27
Available for Final Consumption	156.87	166.22	177.09	170.66	157.05	160.34
Final Non-Energy Consumption	15.86	16.18	16.12	13.95	13.86	13.35
Final Energy Consumption	143.48	155.31	160.77	155.30	140.35	144.12
by Fuel/Product						
Solid Fuels	6.49	5.78	5.22	4.55	3.27	4.11
Petroleum and Products	69.82	73.18	71.45	64.60	60.36	61.13
Gases	27.25	30.91	34.34	32.77	27.78	28.32
Biomass and Renewable Wastes	9.67	8.82	9.14	11.49	10.86	11.41
Solar	0.03	0.02	0.03	0.06	0.10	0.10
Geothermal	0.13	0.13	0.02	0.02	0.03	0.03
Electricity	29.48	33.10	36.35	38.19	35.67	36.54
Derived heat	0.55	3.24	4.16	3.53	2.16	2.35
Wastes, Non-Renewable	0.08	0.15	0.06	0.10	0.13	0.13
by Sector						
Industry	36.20	37.35	33.48	28.46	27.33	28.64
Transport	45.70	50.41	50.26	49.47	49.34	50.08
Residential	35.79	40.79	43.07	43.10	36.24	37.66
Services	20.72	18.36	20.76	23.18	22.16	22.54
Agriculture and Fishing	4.07	4.28	4.68	4.52	4.49	4.43
Other	1.01	4.14	8.51	6.58	0.78	0.78

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	107.62	114.67	115.76	124.55	128.94	129.31
Combustible Fuels	23.87	26.07	26.45	28.82	24.41	22.55
Nuclear	58.52	63.18	63.26	63.13	63.13	63.13
Hydro	24.99	25.13	25.11	25.40	25.29	25.28
Wind	0.00	0.04	0.69	5.91	9.07	10.22
Solar PV	0.00	0.01	0.01	1.04	5.65	6.76
Geothermal					0.00	0.00
Tide, Wave and Ocean	0.24	0.24	0.24	0.24	0.24	0.24
Other Sources					1.14	1.13
Gross Electricity Generation (TWh)	494.27	539.95	576.06	569.10	563.69	568.45
Solid Fuels	24.18	27.00	27.52	23.36	9.52	9.65
Petroleum and Products	7.75	7.17	7.93	5.52	2.10	2.16
Gases	6.22	15.37	26.26	26.71	15.30	22.32
Nuclear	377.23	415.16	451.53	428.52	436.47	437.43
Renewables	78.53	74.17	61.18	83.01	97.60	94.32
Wastes, non-RES	0.37	1.08	1.66	1.97	2.15	2.25
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			6.60	4.61	6.17	5.6
CHP Electricity Generation (TWh)			23.21	15.69	11.62	13.9
CHP in Total Electricity Generation (%)			4.0%	2.8%	2.1%	2.5%
CHP Heat Production (PJ)			209.20	173.95	132.04	154.9
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	44879.4	49275.8	48778.9	46118.7	45441.8	46103.9
Motor Gasoline	16711.5	14654.6	11427.7	7870.5	6790.6	6869.9
Gas/Diesel Oil	23351.7	28171.7	30814.3	31752.8	32084.8	32383.0
Final Consumption Biofuels	154.4	324.5	581.6	2400.5	2906.2	2949.1
Biogasoline	24.3	58.2	99.9	395.6	406.5	421.2
Biodiesel	130.1	266.3	481.7	2004.9	2499.7	2527.9
Main Energy Indicators						
Energy Intensity (toe/M€'10)	157.5	145.4	143.7	133.5	119.7	120.5
Energy per Capita (kgoe/cap)	4076.1	4253.7	4402.9	4127.6	3767.8	3799.4
Final Electricity per Capita (KWh/cap)	5780.1	6357.3	6734.9	6868.2	6290.5	6390.9
Primary Energy Intensity (toe/M€'10)	147.2	136.2	135.3	126.6	113.1	114.1
Import Dependency (%)	48.0%	51.5%	51.6%	49.0%	46.1%	46.0%
of Solid Fuels	56.8%	86.4%	94.5%	101.0%	98.6%	98.4%
of Hard Coal	58.0%	87.3%	92.9%	100.6%	97.5%	96.8%
of Petroleum Fuels	96.9%	99.5%	99.3%	97.7%	98.5%	98.5%
of Crude and NGL	95.8%	98.5%	98.2%	98.2%	98.0%	98.8%
of Natural Gas	93.0%	100.0%	99.3%	93.0%	103.6%	98.7%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			9.5%	12.5%	14.7%	15.2%
RES-H&C – Heating and Cooling			12.2%	15.8%	18.8%	19.8%
RES-E – Electricity Generation			13.7%	14.8%	18.3%	18.8%
RES-T – Transport			2.1%	6.5%	8.4%	8.5%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	408.37	428.96	439.89	404.02	348.05	353.90
GHGs Emissions*	554.63	566.36	569.14	527.68	470.04	474.61
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	6884.8	7085.0	7007.7	6248.5	5278.1	5322.7
Carbon Intensity (kg CO ₂ /toe)	1674.4	1647.7	1577.0	1500.9	1390.7	1392.0
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	266.0	242.1	228.7	202.2	167.7	168.7

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.11 Croatia

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	5.00	4.26	4.75	5.16	4.43	4.47
Solid Fuels	0.05					
of which Hard Coal	0.05					
Petroleum and Products	1.80	1.35	1.03	0.77	0.68	0.76
of which Crude and NGL	1.80	1.35	1.03	0.76	0.61	0.69
Gases	1.61	1.36	1.87	2.22	1.44	1.47
of which Natural Gas	1.61	1.36	1.87	2.22	1.44	1.47
Nuclear						
Renewables	1.54	1.56	1.86	2.17	2.29	2.23
Wastes, Non-Renewable	0.00	0.00	0.00	0.01	0.01	0.01
Net Imports	2.85	4.08	5.15	4.39	3.59	4.12
Solid Fuels	0.15	0.48	0.62	0.70	0.60	0.62
of which Hard Coal	0.07	0.44	0.57	0.66	0.56	0.59
Petroleum and Products	2.21	2.41	3.58	2.98	2.35	2.62
of which Crude and NGL	3.98	3.91	4.02	3.56	1.87	2.34
Gases	0.22	0.91	0.56	0.48	0.58	0.56
of which Natural Gas	0.22	0.91	0.56	0.48	0.58	0.56
Renewables				-0.10	-0.27	-0.27
Electricity	0.27	0.29	0.38	0.34	0.34	0.58
Gross Inland Consumption	7.86	8.42	9.78	9.43	8.20	8.53
Solid Fuels	0.18	0.43	0.68	0.68	0.65	0.61
of which Hard Coal	0.09	0.39	0.63	0.64	0.61	0.57
Petroleum and Products	3.94	3.93	4.49	3.70	3.17	3.28
of which Crude and NGL	5.76	5.43	5.10	4.33	2.48	2.94
Gases	1.93	2.21	2.37	2.63	2.02	2.08
of which Natural Gas	1.93	2.21	2.37	2.63	2.02	2.08
Nuclear						
Renewables	1.54	1.56	1.86	2.07	2.01	1.96
Electricity	0.27	0.29	0.38	0.34	0.34	0.58
Wastes, Non-Renewable	0.00	0.00	0.00	0.01	0.01	0.01
Primary Energy Consumption	7.05	7.77	9.11	8.83	7.66	8.00
Available for Final Consumption	6.10	6.66	7.91	7.81	6.78	7.12
Final Non-Energy Consumption	0.81	0.66	0.68	0.60	0.54	0.53
Final Energy Consumption	5.28	6.00	7.24	7.21	6.24	6.59
by Fuel/Product						
Solid Fuels	0.11	0.07	0.15	0.15	0.10	0.08
Petroleum and Products	2.11	2.68	3.11	2.90	2.62	2.75
Gases	0.91	1.01	1.24	1.29	0.94	0.98
Biomass and Renewable Wastes	1.05	1.00	1.24	1.24	1.09	1.22
Solar		0.00	0.00	0.01	0.01	0.01
Geothermal				0.01	0.01	0.01
Electricity	0.85	1.02	1.24	1.36	1.28	1.32
Derived heat	0.25	0.21	0.26	0.25	0.19	0.21
Wastes, Non-Renewable	0.00	0.00	0.00	0.01	0.01	0.01
by Sector						
Industry	1.25	1.38	1.56	1.37	1.10	1.09
Transport	1.20	1.55	1.92	2.07	2.02	2.11
Residential	2.19	2.30	2.82	2.76	2.22	2.42
Services	0.44	0.49	0.69	0.78	0.68	0.74
Agriculture and Fishing	0.20	0.29	0.24	0.25	0.24	0.23
Other						

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	2.07	2.08	3.87	4.12	4.43	4.80
Combustible Fuels			1.80	1.90	1.86	2.12
Nuclear						
Hydro	2.07	2.08	2.06	2.14	2.19	2.21
Wind			0.01	0.08	0.34	0.42
Solar PV					0.03	0.05
Geothermal						
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	9.28	11.28	13.16	14.90	13.55	11.40
Solid Fuels	0.24	1.55	2.33	2.39	2.37	2.31
Petroleum and Products	2.46	1.69	1.86	0.56	0.13	0.22
Gases	0.88	1.57	1.81	2.55	1.00	1.20
Nuclear						
Renewables	5.69	6.47	7.17	9.40	10.06	7.68
Wastes, non-RES	0.00	0.00	0.00	0.00	0.00	0.00
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)				0.69	0.68	0.6
CHP Electricity Generation (TWh)				2.02	0.86	0.8
CHP in Total Electricity Generation (%)				14.3%	6.3%	7.1%
CHP Heat Production (PJ)				14.92	11.32	10.0
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 186.2	1 525.8	1 900.9	2 042.0	1 962.3	2 058.6
Motor Gasoline	594.3	814.7	739.1	678.4	554.9	553.8
Gas/Diesel Oil	477.4	623.3	1 038.5	1 186.4	1 207.8	1 302.7
Final Consumption Biofuels				2.6	29.8	24.3
Biogasoline					0.0	0.0
Biodiesel				2.6	29.8	24.3
Main Energy Indicators						
Energy Intensity (toe/M€'10)	263.2	238.7	222.5	209.5	189.6	194.1
Energy per Capita (kgoe/cap)	1 686.5	1 872.5	2 269.2	2 190.9	1 929.7	2 017.6
Final Electricity per Capita (KWh/cap)	2 129.5	2 630.9	3 344.3	3 686.4	3 492.7	3 631.2
Primary Energy Intensity (toe/M€'10)	236.0	220.1	207.2	196.2	177.1	182.0
Import Dependency (%)	36.1 %	48.4 %	52.5 %	46.6 %	43.8 %	48.3 %
of Solid Fuels	85.7 %	110.9 %	91.4 %	102.3 %	92.4 %	103.1 %
of Hard Coal	73.9 %	112.9 %	90.5 %	102.7 %	92.3 %	102.5 %
of Petroleum Fuels	55.6 %	61.0 %	79.4 %	80.4 %	74.0 %	79.7 %
of Crude and NGL	69.2 %	72.1 %	78.9 %	82.2 %	75.6 %	79.6 %
of Natural Gas	11.6 %	41.0 %	23.7 %	18.1 %	28.6 %	27.1 %
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			23.8 %	25.1 %	27.9 %	29.0 %
RES-H&C – Heating and Cooling			30.0 %	32.8 %	36.2 %	38.6 %
RES-E – Electricity Generation			35.6 %	37.6 %	45.3 %	45.4 %
RES-T – Transport			1.0 %	1.1 %	4.1 %	3.5 %
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	17.24	19.99	23.71	21.50	18.15	18.27
GHGs Emissions*	22.56	25.46	29.57	27.63	23.42	23.86
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	3 700.0	4 444.5	5 500.0	4 996.5	4 272.7	4 324.6
Carbon Intensity (kg CO ₂ /toe)	2 185.1	2 368.5	2 417.9	2 278.9	2 214.2	2 143.4
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	577.5	566.5	539.3	477.7	419.9	416.0

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.12 Italy

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	29.83	28.49	30.33	33.07	36.81	36.13
Solid Fuels	0.04	0.00	0.06	0.06	0.06	0.05
of which Hard Coal			0.06	0.06	0.06	0.05
Petroleum and Products	5.57	5.01	6.38	5.68	6.10	5.82
of which Crude and NGL	5.26	4.56	6.15	5.14	5.88	5.51
Gases	16.56	13.63	9.89	6.89	5.86	5.55
of which Natural Gas	16.35	13.62	9.89	6.89	5.86	5.55
Nuclear						
Renewables	7.49	9.60	13.33	19.40	23.64	23.56
Wastes, Non-Renewable	0.16	0.26	0.67	1.04	1.16	1.15
Net Imports	134.50	152.07	160.37	149.46	116.12	121.83
Solid Fuels	13.00	13.13	16.37	13.79	12.90	12.32
of which Hard Coal	12.58	12.87	15.94	13.98	12.30	12.07
Petroleum and Products	89.52	87.60	79.15	67.78	51.14	52.83
of which Crude and NGL	73.67	83.27	89.10	79.21	54.54	62.15
Gases	28.53	47.01	59.84	61.60	45.47	50.00
of which Natural Gas	28.53	47.01	59.84	61.60	45.47	50.00
Renewables	0.23	0.52	0.78	2.50	2.85	2.69
Electricity	3.22	3.81	4.23	3.80	3.76	3.99
Gross Inland Consumption	161.77	174.22	190.08	177.93	151.03	156.17
Solid Fuels	12.28	12.55	16.46	13.66	13.07	12.30
of which Hard Coal	11.91	12.18	15.98	13.78	12.42	12.00
Petroleum and Products	93.52	89.54	83.96	69.51	55.83	57.16
of which Crude and NGL	79.35	87.52	94.76	83.87	60.14	67.43
Gases	44.87	57.95	70.65	68.06	50.71	55.30
of which Natural Gas	44.65	57.94	70.65	68.06	50.71	55.30
Nuclear						
Renewables	7.72	10.11	14.11	21.86	26.51	26.27
Electricity	3.22	3.81	4.23	3.80	3.76	3.99
Wastes, Non-Renewable	0.16	0.26	0.67	1.04	1.16	1.15
Primary Energy Consumption	152.03	165.79	181.47	168.37	143.84	149.56
Available for Final Consumption	124.85	133.74	145.23	137.17	118.59	121.99
Final Non-Energy Consumption	9.73	8.43	8.61	9.56	7.19	6.61
Final Energy Consumption	114.58	124.72	137.15	128.46	113.35	116.44
by Fuel/Product						
Solid Fuels	3.93	3.59	3.98	2.86	2.27	1.72
Petroleum and Products	54.06	57.84	59.01	48.73	44.33	44.34
Gases	34.65	38.02	40.61	38.50	31.08	33.18
Biomass and Renewable Wastes	1.14	1.52	4.30	8.81	7.16	8.06
Solar	0.01	0.01	0.03	0.13	0.18	0.19
Geothermal	0.21	0.21	0.21	0.13	0.11	0.11
Electricity	20.49	23.47	25.87	25.74	24.20	24.72
Derived heat			3.08	3.33	3.75	3.85
Wastes, Non-Renewable	0.08	0.06	0.06	0.22	0.27	0.27
by Sector						
Industry	36.02	39.74	39.86	31.25	26.16	26.02
Transport	38.57	42.52	44.84	41.73	40.09	39.54
Residential	26.32	27.59	33.92	35.39	29.55	32.49
Services	9.82	11.54	15.05	16.98	14.67	15.39
Agriculture and Fishing	3.25	3.16	3.32	2.94	2.78	2.85
Other	0.59	0.17	0.16	0.16	0.11	0.14

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	65.92	75.51	85.50	106.61	121.75	116.96
Combustible Fuels	45.48	54.03	61.93	74.66	71.27	65.62
Nuclear						
Hydro	19.84	20.35	20.99	21.52	22.10	22.22
Wind	0.02	0.36	1.64	5.79	8.68	9.14
Solar PV	0.02	0.02	0.03	3.59	18.59	18.89
Geothermal	0.47	0.59	0.67	0.73	0.77	0.77
Tide, Wave and Ocean						
Other Sources	0.09	0.16	0.23	0.32	0.33	0.32
Gross Electricity Generation (TWh)	241.49	276.64	303.70	302.06	279.83	282.99
Solid Fuels	24.12	26.27	43.61	39.73	43.45	43.20
Petroleum and Products	120.80	85.88	47.12	21.71	14.16	13.38
Gases	50.44	105.61	155.08	157.44	96.71	113.05
Nuclear						
Renewables	45.58	57.58	55.30	80.26	122.39	110.34
Wastes, non-RES	0.17	0.51	1.48	2.15	2.45	2.43
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			5.89	7.35	8.57	9.0
CHP Electricity Generation (TWh)			27.39	34.71	36.65	39.5
CHP in Total Electricity Generation (%)			9.0%	11.5%	13.1%	14.0%
CHP Heat Production (PJ)			193.07	202.51	202.45	213.2
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	37664.7	41460.6	43426.7	38701.8	37048.4	36353.3
Motor Gasoline	18278.7	17555.7	14174.8	10275.9	8494.6	8191.9
Gas/Diesel Oil	15237.8	18415.4	23792.8	22703.1	22773.3	22089.6
Final Consumption Biofuels			176.7	1419.4	1065.2	1166.6
Biogasoline				122.1	10.0	24.8
Biodiesel			176.7	1297.3	1055.2	1141.8
Main Energy Indicators						
Energy Intensity (toe/M€'10)	114.8	112.0	116.6	110.9	97.9	100.4
Energy per Capita (kgoe/cap)	2845.8	3060.6	3284.4	3006.0	2484.7	2568.8
Final Electricity per Capita (KWh/cap)	4191.7	4795.5	5198.8	5056.8	4631.2	4728.7
Primary Energy Intensity (toe/M€'10)	107.9	106.6	111.3	104.9	93.2	96.2
Import Dependency (%)	81.9%	86.5%	83.4%	82.6%	75.9%	77.1%
of Solid Fuels	105.9%	104.6%	99.4%	101.0%	98.7%	100.2%
of Hard Coal	105.6%	105.7%	99.7%	101.5%	99.0%	100.5%
of Petroleum Fuels	93.3%	96.1%	91.8%	93.5%	88.6%	89.5%
of Crude and NGL	92.8%	95.1%	94.0%	94.5%	90.7%	92.2%
of Natural Gas	63.9%	81.1%	84.7%	90.5%	89.7%	90.4%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			7.5%	13.0%	17.1%	17.5%
RES-H&C – Heating and Cooling			8.2%	15.6%	18.9%	19.2%
RES-E – Electricity Generation			16.3%	20.1%	33.4%	33.5%
RES-T – Transport			1.0%	4.8%	5.0%	6.4%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	453.19	474.19	500.36	434.32	356.19	366.87
GHGs Emissions*	536.82	560.89	588.31	514.14	432.52	442.78
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	7972.4	8330.3	8645.6	7337.7	5860.1	6034.5
Carbon Intensity (kg CO ₂ /toe)	2760.2	2696.3	2601.7	2400.9	2329.0	2321.0
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	321.6	304.8	307.0	270.7	230.9	235.9

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.13 Cyprus

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	0.04	0.04	0.05	0.09	0.12	0.13
Solid Fuels						
of which Hard Coal						
Petroleum and Products				0.00	0.01	0.01
of which Crude and NGL						
Gases						
of which Natural Gas						
Nuclear						
Renewables	0.04	0.04	0.05	0.08	0.11	0.12
Wastes, Non-Renewable			0.00	0.01	0.01	0.00
Net Imports	2.04	2.57	2.84	2.94	2.29	2.45
Solid Fuels	0.01	0.03	0.04	0.01	0.00	0.00
of which Hard Coal	0.01	0.03	0.04	0.01	0.00	0.00
Petroleum and Products	2.03	2.53	2.79	2.91	2.27	2.42
of which Crude and NGL	0.80	1.16				
Gases						
of which Natural Gas						
Renewables	0.00	0.00	0.01	0.02	0.02	0.03
Electricity						
Gross Inland Consumption	1.97	2.41	2.54	2.74	2.23	2.27
Solid Fuels	0.01	0.03	0.04	0.02	0.00	0.00
of which Hard Coal	0.01	0.03	0.04	0.02	0.00	0.00
Petroleum and Products	1.91	2.33	2.45	2.61	2.09	2.11
of which Crude and NGL	0.83	1.18				
Gases						
of which Natural Gas						
Nuclear						
Renewables	0.05	0.05	0.05	0.11	0.13	0.15
Electricity						
Wastes, Non-Renewable	0.00	0.00	0.00	0.01	0.01	0.01
Primary Energy Consumption	1.90	2.33	2.47	2.66	2.21	2.25
Available for Final Consumption	1.48	1.75	1.80	1.97	1.65	1.67
Final Non-Energy Consumption	0.06	0.09	0.07	0.09	0.02	0.02
Final Energy Consumption	1.43	1.65	1.83	1.93	1.62	1.66
by Fuel/Product						
Solid Fuels	0.01	0.03	0.04	0.02	0.00	0.00
Petroleum and Products	1.18	1.32	1.40	1.38	1.16	1.18
Gases						
Biomass and Renewable Wastes	0.01	0.01	0.01	0.04	0.03	0.04
Solar	0.03	0.04	0.04	0.06	0.07	0.07
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.19	0.26	0.34	0.42	0.34	0.35
Derived heat					0.00	0.00
Wastes, Non-Renewable	0.00	0.00	0.00	0.01	0.01	0.01
by Sector						
Industry	0.39	0.44	0.32	0.24	0.22	0.20
Transport	0.76	0.86	0.98	1.05	0.84	0.87
Residential	0.14	0.18	0.32	0.33	0.29	0.32
Services	0.07	0.11	0.16	0.25	0.20	0.21
Agriculture and Fishing	0.01	0.01	0.04	0.04	0.04	0.04
Other	0.05	0.05	0.02	0.02	0.02	0.02

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	0.69	0.99	1.13	1.56	1.72	1.76
Combustible Fuels	0.69	0.99	1.12	1.47	1.51	1.52
Nuclear						
Hydro						
Wind				0.08	0.15	0.16
Solar PV			0.00	0.01	0.06	0.08
Geothermal						
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	2.50	3.37	4.38	5.32	4.35	4.53
Solid Fuels						
Petroleum and Products	2.50	3.37	4.38	5.25	4.03	4.14
Gases						
Nuclear						
Renewables	0.00	0.00	0.00	0.07	0.32	0.40
Wastes, non-RES						0.00
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.01	0.02	0.01	0.01
CHP Electricity Generation (TWh)			0.0	0.06	0.07	0.0
CHP in Total Electricity Generation (%)			0.3%	1.0%	1.5%	0.1%
CHP Heat Production (PJ)			0.1	0.1	0.2	0.2
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	760.2	859.7	982.5	1034.8	833.1	857.6
Motor Gasoline	193.6	218.0	320.6	412.7	360.8	365.0
Gas/Diesel Oil	292.7	359.5	355.4	337.8	229.0	247.2
Final Consumption Biofuels				15.0	9.7	9.7
Biogasoline						
Biodiesel				15.0	9.7	9.7
Main Energy Indicators						
Energy Intensity (toe/M€'10)	166.4	168.6	149.0	142.0	128.4	128.7
Energy per Capita (kgoe/cap)	3044.6	3494.6	3463.5	3345.0	2597.9	2682.4
Final Electricity per Capita (KWh/cap)	3444.4	4338.9	5402.0	5959.9	4621.2	4829.9
Primary Energy Intensity (toe/M€'10)	161.1	162.6	144.7	137.6	127.0	127.3
Import Dependency (%)	100.5%	98.6%	100.7%	100.8%	93.2%	97.7%
of Solid Fuels	100.0%	100.0%	119.4%	64.7%	150.0%	100.0%
of Hard Coal	100.0%	100.0%	119.4%	64.7%	150.0%	100.0%
of Petroleum Fuels	102.6%	100.3%	102.3%	104.2%	97.9%	102.9%
of Crude and NGL	96.3%	98.5%				
of Natural Gas						
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			3.1%	6.0%	8.9%	9.4%
RES-H&C – Heating and Cooling			10.0%	18.2%	21.6%	22.5%
RES-E – Electricity Generation			0.0%	1.4%	7.4%	8.4%
RES-T – Transport			0.0%	2.0%	2.7%	2.5%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	6.66	7.93	8.81	8.84	7.65	7.61
GHGs Emissions*	7.86	9.17	10.16	10.42	9.21	9.19
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	10312.6	11482.3	12014.7	10792.7	8921.6	8986.3
Carbon Intensity (kg CO ₂ /toe)	3275.5	3047.1	3118.8	3025.6	3115.5	3032.4
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	563.6	553.9	516.8	458.1	440.8	431.1

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.14 Latvia

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	1.43	1.47	1.87	1.98	2.38	2.35
Solid Fuels	0.08	0.02	0.00	0.00	0.00	0.00
of which Hard Coal						
Petroleum and Products	0.00	0.06	0.01	0.00	0.00	0.01
of which Crude and NGL						
Gases						
of which Natural Gas						
Nuclear						
Renewables	1.35	1.39		1.96	2.37	2.33
Wastes, Non-Renewable			0.00	0.01	0.01	0.01
Net Imports	3.36	2.36	3.10	2.22	1.90	2.37
Solid Fuels	0.17	0.06	0.08	0.11	0.05	0.04
of which Hard Coal	0.16	0.05	0.07	0.11	0.05	0.04
Petroleum and Products	2.09	1.24	1.78	1.67	1.54	1.79
of which Crude and NGL						
Gases	1.00	1.11	1.43	0.90	0.78	1.08
of which Natural Gas	1.00	1.11	1.43	0.90	0.78	1.08
Renewables	-0.09	-0.20	-0.38	-0.56	-0.72	-0.74
Electricity	0.19	0.15	0.18	0.08	0.20	0.16
Gross Inland Consumption	4.62	3.86	4.59	4.63	4.45	4.38
Solid Fuels	0.27	0.13	0.08	0.11	0.06	0.05
of which Hard Coal	0.17	0.07	0.08	0.11	0.06	0.05
Petroleum and Products	1.89	1.30	1.49	1.52	1.43	1.49
of which Crude and NGL						
Gases	1.01	1.09	1.36	1.46	1.08	1.10
of which Natural Gas	1.01	1.09	1.36	1.46	1.08	1.10
Nuclear						
Renewables	1.26	1.19	1.48	1.44	1.61	1.54
Electricity	0.19	0.15	0.19	0.08	0.20	0.16
Wastes, Non-Renewable			0.00	0.03	0.07	0.06
Primary Energy Consumption	4.58	3.79	4.50	4.56	4.36	4.27
Available for Final Consumption	3.94	3.28	4.11	4.17	3.99	3.89
Final Non-Energy Consumption	0.04	0.08	0.10	0.07	0.09	0.11
Final Energy Consumption	3.85	3.25	4.02	4.12	3.89	3.79
by Fuel/Product						
Solid Fuels	0.13	0.06	0.07	0.09	0.05	0.04
Petroleum and Products	1.16	1.06	1.32	1.45	1.32	1.37
Gases	0.37	0.33	0.51	0.50	0.33	0.32
Biomass and Renewable Wastes	0.88	0.82	1.01	0.95	1.05	0.94
Solar						
Geothermal						
Electricity	0.38	0.39	0.49	0.53	0.57	0.56
Derived heat	0.93	0.60	0.60	0.58	0.51	0.50
Wastes, Non-Renewable	0.00	0.00	0.00	0.03	0.07	0.06
by Sector						
Industry	0.70	0.58	0.70	0.77	0.79	0.79
Transport	0.72	0.75	1.07	1.20	1.09	1.15
Residential	1.60	1.33	1.50	1.39	1.24	1.11
Services	0.66	0.47	0.59	0.60	0.61	0.59
Agriculture and Fishing	0.17	0.13	0.15	0.16	0.15	0.16
Other	0.00	0.00	0.00	0.00	0.00	0.00

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	2.07	2.09	2.17	2.56	2.92	2.93
Combustible Fuels	0.56	0.58	0.60	0.95	1.27	1.28
Nuclear						
Hydro	1.51	1.51	1.54	1.58	1.59	1.59
Wind	0.00	0.00	0.03	0.03	0.07	0.07
Solar PV						
Geothermal						
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	3.98	4.14	4.91	6.63	5.14	5.53
Solid Fuels	0.10	0.08	0.00	0.00	0.00	0.00
Petroleum and Products	0.42	0.11	0.01	0.00	0.00	0.00
Gases	0.53	1.13	1.49	2.99	2.34	2.76
Nuclear						
Renewables	2.94	2.82	3.41	3.64	2.80	2.78
Wastes, non-RES						
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.59	0.87	1.09	1.1
CHP Electricity Generation (TWh)			1.51	2.98	2.44	2.5
CHP in Total Electricity Generation (%)			30.7%	45.0%	47.5%	44.7%
CHP Heat Production (PJ)			11.91	10.45	11.78	12.4
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	699.3	734.3	1049.7	1163.3	1059.3	1113.1
Motor Gasoline	429.8	346.8	351.8	294.1	205.8	204.8
Gas/Diesel Oil	241.5	340.0	613.0	727.7	680.0	736.8
Final Consumption Biofuels			2.7	27.0	24.2	24.6
Biogasoline			0.0	8.3	6.4	7.7
Biodiesel			2.7	18.7	17.8	16.9
Main Energy Indicators						
Energy Intensity (toe/M€'10)	484.0	314.8	252.3	260.2	215.8	206.7
Energy per Capita (kgoe/cap)	1848.8	1622.4	2041.1	2183.0	2224.4	2205.3
Final Electricity per Capita (KWh/cap)	1785.6	1879.7	2546.5	2930.9	3288.6	3253.1
Primary Energy Intensity (toe/M€'10)	479.7	308.7	247.0	256.1	211.3	201.4
Import Dependency (%)	70.4%	61.0%	63.9%	45.5%	40.6%	51.2%
of Solid Fuels	61.6%	46.2%	93.9%	102.8%	76.7%	87.0%
of Hard Coal	93.6%	81.8%	97.3%	106.7%	78.0%	87.0%
of Petroleum Fuels	102.6%	94.8%	102.2%	94.4%	92.4%	102.9%
of Crude and NGL						
of Natural Gas	98.9%	101.9%	105.6%	61.8%	72.1%	98.6%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			32.3%	30.4%	38.7%	37.6%
RES-H&C – Heating and Cooling			42.7%	40.7%	52.2%	51.8%
RES-E – Electricity Generation			43.0%	42.1%	51.1%	52.2%
RES-T – Transport			2.4%	4.0%	4.1%	3.9%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	9.26	7.18	7.99	8.90	7.50	7.58
GHGs Emissions*	12.81	10.44	11.49	12.58	11.55	11.65
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	3702.0	3014.8	3552.1	4197.9	3749.3	3817.9
Carbon Intensity (kg CO ₂ /toe)	1940.3	1854.4	1647.7	1824.9	1602.7	1636.7
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	969.3	585.0	439.1	500.4	363.8	357.9

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.15 Lithuania

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	3.8	3.3	4.0	1.3	1.5	1.6
Solid Fuels	0.02	0.01	0.02	0.01	0.03	0.02
of which Hard Coal						
Petroleum and Products	0.15	0.37	0.33	0.14	0.10	0.10
of which Crude and NGL	0.13	0.32	0.22	0.12	0.08	0.08
Gases						
of which Natural Gas						
Nuclear	3.11	2.22	2.71			
Renewables	0.50	0.68	0.90	1.19	1.36	1.47
Wastes, Non-Renewable					0.02	0.02
Net Imports	5.54	4.25	5.03	5.67	5.23	5.48
Solid Fuels	0.16	0.08	0.18	0.20	0.21	0.16
of which Hard Coal	0.15	0.07	0.16	0.16	0.18	0.14
Petroleum and Products	3.58	2.22	2.62	2.61	2.28	2.69
of which Crude and NGL	3.10	4.55	8.90	9.05	7.51	8.68
Gases	2.03	2.07	2.49	2.49	2.15	2.06
of which Natural Gas	2.03	2.07	2.49	2.49	2.15	2.06
Renewables	0.00	-0.01	-0.01	-0.14	-0.07	-0.06
Electricity	-0.23	-0.12	-0.26	0.52	0.66	0.62
Gross Inland Consumption	8.64	7.06	8.71	6.79	6.70	6.91
Solid Fuels	0.25	0.09	0.19	0.21	0.24	0.19
of which Hard Coal	0.22	0.07	0.15	0.17	0.19	0.15
Petroleum and Products	2.99	2.13	2.71	2.50	2.44	2.60
of which Crude and NGL	3.11	4.82	9.34	9.14	7.60	8.73
Gases	2.03	2.06	2.48	2.49	2.07	2.07
of which Natural Gas	2.03	2.06	2.48	2.49	2.07	2.07
Nuclear	3.11	2.22	2.71			
Renewables	0.49	0.68	0.88	1.07	1.28	1.42
Electricity	-0.23	-0.12	-0.26	0.52	0.66	0.62
Wastes, Non-Renewable	0.00	0.00	0.00	0.00	0.02	0.02
Primary Energy Consumption	8.10	6.40	7.98	6.13	5.69	5.80
Available for Final Consumption	5.13	4.28	5.39	5.48	5.90	5.99
Final Non-Energy Consumption	0.54	0.66	0.73	0.66	1.01	1.12
Final Energy Consumption	4.60	3.77	4.67	4.81	4.89	4.87
by Fuel/Product						
Solid Fuels	0.23	0.08	0.18	0.21	0.23	0.18
Petroleum and Products	1.67	1.36	1.62	1.61	1.80	1.87
Gases	0.51	0.36	0.59	0.62	0.53	0.52
Biomass and Renewable Wastes	0.45	0.61	0.70	0.74	0.71	0.70
Solar						
Geothermal						
Electricity	0.55	0.53	0.69	0.72	0.79	0.80
Derived heat	1.19	0.83	0.91	0.92	0.84	0.80
Wastes, Non-Renewable						
by Sector						
Industry	1.02	0.78	1.06	0.95	1.03	0.98
Transport	1.04	1.06	1.43	1.55	1.74	1.83
Residential	1.64	1.37	1.51	1.60	1.41	1.37
Services	0.69	0.46	0.56	0.60	0.59	0.58
Agriculture and Fishing	0.20	0.10	0.11	0.11	0.11	0.10
Other	0.00	0.00	0.00	0.01	0.01	0.01

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	5.87	5.72	4.56	3.57	4.04	3.59
Combustible Fuels	2.46	2.46	2.47	2.54	2.78	2.18
Nuclear	2.73	2.37	1.18			
Hydro	0.67	0.86	0.88	0.88	0.88	0.88
Wind			0.00	0.13	0.29	0.44
Solar PV				0.00	0.07	0.07
Geothermal						
Tide, Wave and Ocean						
Other Sources	0.01	0.03	0.03	0.03	0.03	0.03
Gross Electricity Generation (TWh)	13.90	11.43	14.78	5.75	4.40	4.93
Solid Fuels						0.00
Petroleum and Products	1.07	0.66	0.40	0.65	0.16	0.28
Gases	0.23	1.62	3.02	3.19	1.75	1.98
Nuclear	11.82	8.42	10.34			
Renewables	0.75	0.64	0.83	1.67	2.20	2.35
Wastes, non-RES					0.04	0.06
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			1.04	1.10	1.12	1.0
CHP Electricity Generation (TWh)			2.30	1.99	1.46	1.5
CHP in Total Electricity Generation (%)			15.5%	34.6%	33.2%	31.3%
CHP Heat Production (PJ)			19.90	19.34	13.14	12.4
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 030.8	1 050.1	1 405.3	1 469.4	1 641.7	1 728.2
Motor Gasoline	618.3	390.5	350.6	296.3	205.4	199.9
Gas/Diesel Oil	346.1	512.9	778.6	950.5	1 215.9	1 313.4
Final Consumption Biofuels			3.3	44.8	63.2	68.0
Biogasoline			0.6	10.3	5.8	9.7
Biodiesel			2.7	34.5	57.4	58.3
Main Energy Indicators						
Energy Intensity (toe/M€'10)	592.4	385.5	329.5	242.2	202.5	205.4
Energy per Capita (kgoe/cap)	2 371.4	2 011.1	2 596.3	2 160.1	2 274.5	2 366.4
Final Electricity per Capita (KWh/cap)	1 744.4	1 764.5	2 377.5	2 651.8	3 138.1	3 197.9
Primary Energy Intensity (toe/M€'10)	555.1	349.4	301.8	218.5	172.0	172.3
Import Dependency (%)	63.1%	59.4%	56.8%	81.8%	78.0%	78.4%
of Solid Fuels	64.4%	87.0%	94.6%	92.0%	89.4%	87.2%
of Hard Coal	69.1%	100.0%	102.6%	95.3%	97.3%	90.1%
of Petroleum Fuels	114.5%	100.4%	91.9%	98.7%	93.0%	100.7%
of Crude and NGL	99.5%	94.5%	95.3%	99.0%	98.8%	99.5%
of Natural Gas	100.0%	100.0%	100.7%	99.7%	104.1%	99.7%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			16.8%	19.6%	23.6%	25.8%
RES-H&C – Heating and Cooling			29.3%	32.5%	40.6%	46.1%
RES-E – Electricity Generation			3.8%	7.4%	13.7%	15.5%
RES-T – Transport			0.6%	3.8%	4.3%	4.6%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	15.14	11.88	14.23	13.86	13.11	13.39
GHGs Emissions*	22.44	19.67	23.21	20.93	20.11	20.34
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	4 156.3	3 381.6	4 240.6	4 410.6	4 453.4	4 582.6
Carbon Intensity (kg CO ₂ /toe)	1 725.1	1 660.1	1 607.1	2 000.6	1 954.7	1 915.4
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	1 038.2	648.2	538.2	494.4	396.5	397.8

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.16 Luxembourg

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	0.05	0.06	0.11	0.12	0.16	0.15
Solid Fuels						
of which Hard Coal						
Petroleum and Products						
of which Crude and NGL						
Gases					0.00	0.01
of which Natural Gas					0.00	0.01
Nuclear						
Renewables	0.04	0.04	0.07	0.09	0.12	0.11
Wastes, Non-Renewable	0.01	0.03	0.04	0.03	0.03	0.03
Net Imports	3.25	3.64	4.68	4.51	4.07	4.01
Solid Fuels	0.49	0.11	0.08	0.07	0.05	0.05
of which Hard Coal	0.13	0.10	0.07	0.06	0.05	0.04
Petroleum and Products	1.77	2.37	3.14	2.85	2.69	2.62
of which Crude and NGL						
Gases	0.56	0.67	1.18	1.20	0.84	0.77
of which Natural Gas	0.56	0.67	1.18	1.20	0.84	0.77
Renewables				0.04	0.07	0.09
Electricity	0.43	0.49	0.28	0.35	0.42	0.48
Gross Inland Consumption	3.32	3.65	4.80	4.64	4.22	4.18
Solid Fuels	0.49	0.11	0.08	0.07	0.05	0.05
of which Hard Coal	0.13	0.10	0.07	0.06	0.05	0.04
Petroleum and Products	1.80	2.32	3.16	2.87	2.68	2.63
of which Crude and NGL						
Gases	0.56	0.67	1.18	1.20	0.85	0.77
of which Natural Gas	0.56	0.67	1.18	1.20	0.85	0.77
Nuclear						
Renewables	0.04	0.04	0.07	0.13	0.19	0.21
Electricity	0.43	0.49	0.28	0.35	0.42	0.48
Wastes, Non-Renewable	0.01	0.03	0.04	0.03	0.03	0.03
Primary Energy Consumption	3.28	3.60	4.77	4.61	4.19	4.15
Available for Final Consumption	3.17	3.56	4.53	4.36	4.03	4.02
Final Non-Energy Consumption	0.05	0.06	0.03	0.03	0.04	0.03
Final Energy Consumption	3.11	3.50	4.48	4.32	4.00	3.99
by Fuel/Product						
Solid Fuels	0.34	0.11	0.08	0.07	0.05	0.05
Petroleum and Products	1.75	2.26	3.11	2.84	2.65	2.60
Gases	0.58	0.61	0.63	0.68	0.58	0.60
Biomass and Renewable Wastes	0.02	0.02	0.04	0.09	0.12	0.13
Solar				0.00	0.00	0.00
Geothermal						
Electricity	0.43	0.50	0.53	0.57	0.53	0.54
Derived heat	0.00	0.01	0.07	0.07	0.06	0.05
Wastes, Non-Renewable	0.00	0.01	0.02	0.01	0.02	0.01
by Sector						
Industry	1.17	0.74	0.78	0.76	0.65	0.65
Transport	1.30	1.91	2.78	2.60	2.50	2.42
Residential	0.56	0.47	0.53	0.51	0.47	0.50
Services	0.07	0.36	0.37	0.43	0.36	0.40
Agriculture and Fishing	0.01	0.02	0.02	0.03	0.02	0.02
Other	0.01	0.01				

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	1.25	1.22	1.68	1.71	2.02	2.02
Combustible Fuels	0.12	0.07	0.49	0.50	0.52	0.51
Nuclear						
Hydro	1.13	1.13	1.13	1.13	1.33	1.33
Wind		0.01	0.04	0.04	0.06	0.06
Solar PV			0.02	0.03	0.11	0.12
Geothermal						
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	1.23	1.17	4.13	4.59	2.97	2.76
Solid Fuels						
Petroleum and Products	0.01	0.00	0.00	0.00	0.00	0.00
Gases	0.34	0.22	3.11	2.92	1.45	0.83
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00
Renewables	0.85	0.92	1.00	1.63	1.46	1.86
Wastes, non-RES	0.03	0.03	0.03	0.05	0.06	0.07
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.10	0.12	0.12	0.1
CHP Electricity Generation (TWh)			0.42	0.44	0.38	0.4
CHP in Total Electricity Generation (%)			10.1 %	9.6 %	12.8 %	12.7 %
CHP Heat Production (PJ)			1.19	3.21	2.55	2.4
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 291.5	1 909.1	2 772.2	2 551.9	2 413.9	2 326.1
Motor Gasoline	529.5	595.3	514.1	359.8	313.6	293.0
Gas/Diesel Oil	569.3	990.4	1 823.5	1 759.6	1 693.6	1 573.9
Final Consumption Biofuels			0.5	42.0	71.6	82.7
Biogasoline				0.6	3.2	7.0
Biodiesel				41.0	68.3	75.6
Main Energy Indicators						
Energy Intensity (toe/M€'10)	144.1	118.7	134.8	115.5	93.6	89.1
Energy per Capita (kgoe/cap)	8 194.3	8 427.1	10 407.0	9 243.8	7 680.8	7 419.7
Final Electricity per Capita (KWh/cap)	12 316.0	13 318.7	13 333.9	13 131.7	11 246.5	11 050.6
Primary Energy Intensity (toe/M€'10)	142.1	116.9	134.0	114.7	92.8	88.4
Import Dependency (%)	97.7 %	99.6 %	97.4 %	97.1 %	96.5 %	95.9 %
of Solid Fuels	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %
of Hard Coal	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %
of Petroleum Fuels	98.2 %	102.1 %	99.4 %	99.4 %	100.3 %	99.3 %
of Crude and NGL						
of Natural Gas	100.0 %	100.0 %	100.0 %	100.0 %	99.5 %	99.4 %
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			1.4 %	2.9 %	4.5 %	5.0 %
RES-H&C – Heating and Cooling			3.6 %	4.7 %	7.2 %	6.9 %
RES-E – Electricity Generation			3.2 %	3.8 %	5.9 %	6.2 %
RES-T – Transport			0.1 %	2.1 %	5.4 %	6.5 %
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	9.70	9.65	13.37	12.50	11.04	10.71
GHGs Emissions*	10.63	10.61	14.30	13.48	12.01	11.68
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	2 3921.6	22 266.9	28 987.0	24 895.6	20 083.3	19 018.0
Carbon Intensity (kg CO ₂ /toe)	2 919.3	2 642.3	2 785.3	2 693.2	2 614.7	2 563.2
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	420.6	313.6	375.5	311.1	244.8	228.3

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.17 Hungary

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	13.90	11.60	10.37	11.92	11.09	11.28
Solid Fuels	3.27	2.89	1.75	1.59	1.59	1.52
of which Hard Coal						
Petroleum and Products	2.33	1.70	1.46	1.18	0.93	0.94
of which Crude and NGL	2.33	1.69	1.39	1.06	0.82	0.84
Gases	3.79	2.48	2.33	2.24	1.44	1.37
of which Natural Gas	3.79	2.48	2.33	2.24	1.44	1.37
Nuclear	3.62	3.67	3.59	4.08	4.06	4.10
Renewables	0.87	0.83	1.19	2.74	2.98	3.24
Wastes, Non-Renewable	0.03	0.03	0.06	0.09	0.10	0.11
Net Imports	12.55	13.96	17.42	15.00	14.12	13.45
Solid Fuels	1.36	1.09	1.30	1.14	0.63	0.80
of which Hard Coal	1.23	1.12	1.30	1.39	1.03	1.05
Petroleum and Products	5.44	5.29	5.78	5.64	5.66	6.45
of which Crude and NGL	5.89	5.88	5.90	5.66	6.00	6.07
Gases	5.53	7.28	9.81	7.73	6.82	5.22
of which Natural Gas	5.53	7.28	9.81	7.73	6.82	5.22
Renewables	0.00	0.00	0.00	0.04	-0.14	-0.22
Electricity	0.21	0.30	0.54	0.45	1.15	1.18
Gross Inland Consumption	26.18	25.30	27.61	26.60	23.82	25.20
Solid Fuels	4.62	3.85	3.03	2.73	2.22	2.36
of which Hard Coal	1.19	1.13	1.24	1.40	1.02	1.05
Petroleum and Products	7.67	6.96	7.12	6.67	6.46	6.92
of which Crude and NGL	8.20	7.48	7.27	6.65	6.73	6.65
Gases	9.18	9.66	12.09	9.82	6.98	7.49
of which Natural Gas	9.18	9.66	12.09	9.82	6.98	7.49
Nuclear	3.62	3.67	3.59	4.08	4.06	4.10
Renewables	0.87	0.83	1.19	2.78	2.85	3.01
Electricity	0.21	0.30	0.54	0.45	1.15	1.18
Wastes, Non-Renewable	0.03	0.03	0.06	0.09	0.10	0.13
Primary Energy Consumption	24.55	23.71	25.44	24.63	21.99	23.28
Available for Final Consumption	18.16	17.72	20.37	19.41	17.71	19.10
Final Non-Energy Consumption	1.63	1.59	2.17	1.97	1.83	1.92
Final Energy Consumption	16.23	16.14	18.23	17.41	16.19	17.31
by Fuel/Product						
Solid Fuels	1.16	0.67	0.71	0.50	0.35	0.43
Petroleum and Products	4.20	4.22	4.90	4.59	4.71	5.13
Gases	6.37	6.50	7.84	6.28	5.12	5.45
Biomass and Renewable Wastes	0.73	0.69	0.58	1.88	2.01	2.11
Solar			0.00	0.01	0.01	0.01
Geothermal	0.08	0.08	0.08	0.09	0.06	0.05
Electricity	2.39	2.53	2.78	2.94	2.99	3.11
Derived heat	1.30	1.45	1.31	1.09	0.91	0.97
Wastes, Non-Renewable			0.03	0.03	0.05	0.06
by Sector						
Industry	3.85	3.51	3.38	2.91	3.96	4.24
Transport	2.70	3.31	4.31	4.32	4.04	4.35
Residential	6.26	5.60	6.46	6.65	5.48	5.96
Services	2.64	3.03	3.51	3.05	2.12	2.18
Agriculture and Fishing	0.66	0.67	0.56	0.49	0.60	0.58
Other	0.13	0.02	0.00	0.00	0.00	0.00

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	7.40	8.28	8.59	8.99	8.66	8.58
Combustible Fuels	5.52	6.38	6.65	6.65	6.18	6.01
Nuclear	1.84	1.85	1.87	2.00	2.00	2.00
Hydro	0.05	0.05	0.05	0.05	0.06	0.06
Wind			0.02	0.29	0.33	0.33
Solar PV				0.00	0.08	0.17
Geothermal						
Tide, Wave and Ocean						
Other Sources					0.01	0.01
Gross Electricity Generation (TWh)	34.02	35.19	35.76	37.37	29.39	30.34
Solid Fuels	9.08	9.59	7.02	6.23	6.00	5.79
Petroleum and Products	5.28	4.40	0.46	0.49	0.08	0.08
Gases	5.36	6.72	12.50	11.71	4.36	5.23
Nuclear	14.03	14.18	13.83	15.76	15.65	15.83
Renewables	0.22	0.24	1.87	3.02	3.14	3.21
Wastes, non-RES	0.05	0.06	0.07	0.15	0.12	0.14
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			2.05	1.86	2.31	1.6
CHP Electricity Generation (TWh)			6.84	7.31	3.82	4.1
CHP in Total Electricity Generation (%)			19.1%	19.6%	13.0%	13.5%
CHP Heat Production (PJ)			47.42	42.18	25.94	24.4
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	2608.7	3220.4	4208.3	4020.8	3716.4	4047.2
Motor Gasoline	1530.3	1432.8	1589.3	1348.3	1243.2	1283.2
Gas/Diesel Oil	896.6	1553.4	2322.9	2413.6	2272.1	2559.0
Final Consumption Biofuels			2.6	174.7	188.5	175.2
Biogasoline			2.6	56.5	60.4	42.6
Biodiesel				118.2	128.1	132.6
Main Energy Indicators						
Energy Intensity (toe/M€'10)	376.8	314.4	278.0	270.5	227.7	233.6
Energy per Capita (kgoe/cap)	2533.0	2474.9	2734.5	2656.1	2411.1	2556.9
Final Electricity per Capita (KWh/cap)	2684.0	2880.3	3202.6	3415.8	3516.8	3672.3
Primary Energy Intensity (toe/M€'10)	353.3	294.7	256.2	250.5	210.2	215.8
Import Dependency (%)	47.9%	55.2%	63.1%	56.4%	59.3%	53.4%
of Solid Fuels	29.5%	28.2%	42.9%	41.9%	28.3%	34.0%
of Hard Coal	103.5%	99.0%	105.1%	99.5%	101.0%	99.3%
of Petroleum Fuels	71.0%	76.0%	81.2%	84.7%	87.7%	93.2%
of Crude and NGL	71.9%	78.6%	81.2%	85.2%	89.2%	91.3%
of Natural Gas	60.3%	75.4%	81.1%	78.7%	97.7%	69.7%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			4.5%	12.8%	14.6%	14.5%
RES-H&C – Heating and Cooling			6.0%	18.1%	21.2%	21.3%
RES-E – Electricity Generation			4.4%	7.1%	7.3%	7.3%
RES-T – Transport			0.9%	6.0%	6.9%	6.2%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	62.16	59.25	61.30	52.93	44.57	47.32
GHGs Emissions*	76.03	74.17	76.59	66.12	58.41	61.64
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	6013.3	5796.7	6070.6	5285.2	4511.8	4801.4
Carbon Intensity (kg CO ₂ /toe)	2374.0	2342.2	2220.0	1989.8	1871.3	1877.8
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	894.4	736.4	617.2	538.3	426.1	438.7

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.18 Malta

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production			0.00	0.00	0.01	0.02
Solid Fuels						
of which Hard Coal						
Petroleum and Products						0.001
of which Crude and NGL						
Gases						
of which Natural Gas						
Nuclear						
Renewables			0.00	0.00	0.01	0.02
Wastes, Non-Renewable						
Net Imports	0.84	1.46	1.63	2.37	2.05	2.23
Solid Fuels						
of which Hard Coal						
Petroleum and Products	0.84	1.46	1.63	2.36	2.05	2.13
of which Crude and NGL						
Gases						
of which Natural Gas						
Renewables				0.00	0.01	0.01
Electricity						
Gross Inland Consumption	0.76	0.80	0.97	0.94	0.89	0.76
Solid Fuels						
of which Hard Coal						
Petroleum and Products	0.76	0.80	0.97	0.93	0.87	0.65
of which Crude and NGL						
Gases						
of which Natural Gas						
Nuclear						
Renewables			0.00	0.01	0.02	0.02
Electricity						
Wastes, Non-Renewable						
Primary Energy Consumption	0.76	0.80	0.95	0.93	0.88	0.75
Available for Final Consumption	0.41	0.44	0.40	0.52	0.56	0.58
Final Non-Energy Consumption	0.00	0.00	0.02	0.01	0.00	0.01
Final Energy Consumption	0.46	0.44	0.38	0.50	0.55	0.57
by Fuel/Product						
Solid Fuels						
Petroleum and Products	0.35	0.31	0.22	0.34	0.36	0.38
Gases						
Biomass and Renewable Wastes				0.00	0.01	0.01
Solar			0.00	0.00	0.00	0.00
Geothermal						
Electricity	0.11	0.14	0.16	0.16	0.17	0.18
Derived heat						
Wastes, Non-Renewable						
by Sector						
Industry	0.04	0.04	0.04	0.04	0.05	0.05
Transport	0.31	0.28	0.20	0.29	0.30	0.31
Residential	0.07	0.08	0.08	0.07	0.07	0.08
Services	0.03	0.04	0.05	0.09	0.12	0.13
Agriculture and Fishing	0.00	0.00	0.00	0.01	0.01	0.01
Other	0.00	0.00	0.02	0.00	0.00	0.00

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)				0.57	0.68	0.67
Combustible Fuels				0.57	0.62	0.59
Nuclear						
Hydro						
Wind						
Solar PV				0.00	0.06	0.07
Geothermal						
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	1.63	1.92	2.24	2.11	2.25	1.30
Solid Fuels	0.09					
Petroleum and Products	1.54	1.92	2.24	2.11	2.17	1.20
Gases						
Nuclear						
Renewables				0.00	0.08	0.10
Wastes, non-RES						
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)						
CHP Electricity Generation (TWh)						
CHP in Total Electricity Generation (%)						
CHP Heat Production (PJ)						
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	308.2	277.3	199.2	286.3	291.5	306.9
Motor Gasoline	128.7	76.1	72.9	73.9	73.9	77.0
Gas/Diesel Oil	105.5	77.9	37.9	107.8	103.7	110.9
Final Consumption Biofuels				0.5	4.9	4.5
Biogasoline						
Biodiesel				0.5	4.9	4.5
Main Energy Indicators						
Energy Intensity (toe/M€'10)	174.9	148.6	162.8	142.3	114.0	90.6
Energy per Capita (kgoe/cap)	2005.7	2060.4	2413.9	2268.0	2082.8	1760.8
Final Electricity per Capita (KWh/cap)	3344.6	4030.8	4614.2	4405.5	4713.4	4923.8
Primary Energy Intensity (toe/M€'10)	174.9	148.6	159.4	140.9	113.5	90.0
Import Dependency (%)	104.8%	100.3%	100.0%	99.0%	97.7%	97.3%
of Solid Fuels						
of Hard Coal						
of Petroleum Fuels	104.8%	100.3%	100.1%	99.2%	98.3%	97.8%
of Crude and NGL						
of Natural Gas						
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			0.2%	1.0%	4.7%	5.0%
RES-H&C – Heating and Cooling			2.2%	7.8%	14.5%	14.1%
RES-E – Electricity Generation			0.0%	0.0%	3.3%	4.2%
RES-T – Transport			0.0%	0.0%	4.6%	4.7%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions	2.69	2.78	2.97	2.94	2.82	2.11
GHGs Emissions	2.90	3.03	3.29	3.33	3.27	2.58
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	7146.6	7161.2	7378.5	7108.3	6621.0	4907.1
Carbon Intensity (kg CO ₂ /toe)	3367.0	1914.7	1822.8	1232.4	1341.8	918.8
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	623.1	516.4	497.6	445.9	362.5	252.4

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.19 The Netherlands

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	70.07	61.95	66.86	74.42	62.99	51.99
Solid Fuels						
of which Hard Coal						
Petroleum and Products	6.92	6.70	6.86	6.07	6.34	6.17
of which Crude and NGL	3.53	2.40	2.31	1.43	1.92	1.83
Gases	60.88	52.20	56.28	63.53	50.37	39.26
of which Natural Gas	60.88	52.20	56.28	63.53	50.37	39.26
Nuclear	1.04	1.01	1.03	1.02	1.06	1.05
Renewables	0.92	1.45	1.97	3.06	4.56	4.81
Wastes, Non-Renewable	0.32	0.58	0.72	0.73	0.68	0.69
Net Imports	17.32	34.67	37.58	29.91	29.60	46.79
Solid Fuels	8.74	7.92	8.22	9.18	9.81	12.30
of which Hard Coal	8.96	7.94	8.21	9.06	9.86	12.46
Petroleum and Products	33.97	42.40	48.43	44.58	40.79	44.17
of which Crude and NGL	59.45	60.24	60.97	59.52	54.19	59.60
Gases	-26.37	-17.19	-20.94	-24.21	-21.23	-9.37
of which Natural Gas	-26.37	-17.19	-20.94	-24.21	-21.23	-9.37
Renewables	0.00	-0.10	0.29	0.13	-1.19	-1.18
Electricity	0.98	1.63	1.57	0.24	1.27	0.75
Gross Inland Consumption	75.52	78.02	84.11	85.78	76.36	77.56
Solid Fuels	8.93	7.77	8.09	7.54	9.01	10.94
of which Hard Coal	9.20	7.82	8.19	7.40	9.03	11.04
Petroleum and Products	28.84	30.67	35.09	33.76	31.75	31.20
of which Crude and NGL	63.09	62.27	63.06	60.95	57.41	60.79
Gases	34.51	35.01	35.34	39.31	29.06	29.18
of which Natural Gas	34.51	35.01	35.34	39.31	29.06	29.18
Nuclear	1.04	1.01	1.03	1.02	1.06	1.05
Renewables	0.92	1.35	2.27	3.19	3.40	3.64
Electricity	0.98	1.63	1.57	0.24	1.27	0.75
Wastes, Non-Renewable	0.32	0.58	0.72	0.73	0.82	0.80
Primary Energy Consumption	64.46	66.04	68.89	70.45	62.23	64.59
Available for Final Consumption	64.32	67.80	72.28	72.69	63.61	64.59
Final Non-Energy Consumption	11.07	11.99	15.22	15.34	14.13	12.96
Final Energy Consumption	50.99	52.34	54.18	55.14	47.32	48.51
by Fuel/Product						
Solid Fuels	1.45	1.38	1.55	1.36	1.50	1.53
Petroleum and Products	15.97	17.47	18.63	18.46	16.83	17.20
Gases	23.32	21.05	20.51	22.02	16.37	17.17
Biomass and Renewable Wastes	0.44	0.49	0.58	0.93	1.17	1.15
Solar	0.01	0.01	0.02	0.02	0.03	0.03
Geothermal				0.01	0.04	0.06
Electricity	6.96	8.21	9.00	9.29	8.74	8.87
Derived heat	2.83	3.70	3.85	3.00	2.61	2.46
Wastes, Non-Renewable	0.01	0.03	0.05	0.06	0.04	0.04
by Sector						
Industry	16.08	16.51	17.02	15.43	14.32	14.27
Transport	12.60	14.16	15.24	15.10	13.91	14.27
Residential	11.79	10.83	10.74	12.46	9.12	9.56
Services	5.77	6.24	6.93	7.80	6.33	6.55
Agriculture and Fishing	4.63	4.50	4.17	4.22	3.55	3.76
Other	0.12	0.10	0.08	0.12	0.10	0.09

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	19.03	21.06	21.80	26.69	31.76	33.87
Combustible Fuels	18.20	20.07	19.97	23.74	27.29	28.40
Nuclear	0.51	0.45	0.45	0.51	0.49	0.49
Hydro	0.04	0.04	0.04	0.04	0.04	0.04
Wind	0.25	0.45	1.22	2.24	2.87	3.39
Solar PV	0.00	0.01	0.05	0.09	1.05	1.52
Geothermal						
Tide, Wave and Ocean						
Other Sources	0.05	0.05	0.07	0.07	0.04	0.04
Gross Electricity Generation (TWh)	81.17	89.63	99.92	119.27	103.42	110.07
Solid Fuels	27.40	24.28	23.50	22.59	29.49	38.44
Petroleum and Products	2.81	2.64	2.26	1.25	1.91	1.43
Gases	44.63	54.36	61.03	78.55	54.46	49.39
Nuclear	4.02	3.93	4.00	3.97	4.09	4.08
Renewables	1.41	2.97	7.45	11.20	11.71	13.70
Wastes, non-RES	0.60	1.21	1.43	1.56	1.63	1.63
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			7.16	9.30	9.18	9.2
CHP Electricity Generation (TWh)			29.47	39.24	29.96	29.8
CHP in Total Electricity Generation (%)			29.4%	33.2%	29.0%	27.1%
CHP Heat Production (PJ)			220.28	233.61	196.28	189.6
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	12471.7	14017.3	15097.4	14711.6	13379.2	13788.4
Motor Gasoline	4205.8	4233.1	4313.0	4161.7	3801.2	3862.1
Gas/Diesel Oil	4840.3	5861.2	6675.1	6783.2	5730.7	5892.8
Final Consumption Biofuels				229.7	349.2	297.4
Biogasoline				135.1	128.3	141.9
Biodiesel				94.6	220.9	155.5
Main Energy Indicators						
Energy Intensity (toe/M€'10)	168.3	140.6	141.9	135.8	118.7	118.3
Energy per Capita (kgoe/cap)	4896.3	4918.1	5158.1	5175.4	4537.3	4589.0
Final Electricity per Capita (KWh/cap)	5244.7	6020.1	6419.1	6515.8	6038.9	6101.0
Primary Energy Intensity (toe/M€'10)	143.7	119.0	116.2	111.5	96.8	98.5
Import Dependency (%)	20.1%	38.1%	37.8%	30.1%	33.3%	52.1%
of Solid Fuels	97.9%	102.0%	101.5%	121.7%	108.9%	112.4%
of Hard Coal	97.4%	101.5%	100.3%	122.3%	109.3%	112.8%
of Petroleum Fuels	85.7%	97.4%	96.2%	94.2%	91.9%	101.5%
of Crude and NGL	94.2%	96.7%	96.7%	97.6%	94.4%	98.0%
of Natural Gas	-76.4%	-49.1%	-59.3%	-61.6%	-73.1%	-32.1%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			2.5%	3.9%	5.5%	5.8%
RES-H&C – Heating and Cooling			2.4%	3.1%	5.2%	5.5%
RES-E – Electricity Generation			6.3%	9.6%	10.0%	11.1%
RES-T – Transport			0.5%	2.6%	6.2%	5.3%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	180.93	181.86	188.35	192.99	169.08	176.70
GHGs Emissions*	239.18	229.68	225.36	224.45	198.50	206.71
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	11730.1	11464.0	11551.3	11643.4	10046.7	10455.4
Carbon Intensity (kg CO ₂ /toe)	2096.0	2000.9	1895.4	1943.0	1899.8	1966.3
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	403.3	327.8	317.7	305.6	262.9	269.5

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.20 Austria

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	8.77	9.79	9.80	11.85	11.97	11.93
Solid Fuels	0.34	0.29				
of which Hard Coal	0.00					
Petroleum and Products	1.08	1.09	1.00	1.04	0.97	0.87
of which Crude and NGL	1.07	1.07	0.97	1.00	0.97	0.87
Gases	1.27	1.55	1.33	1.40	1.09	1.04
of which Natural Gas	1.27	1.55	1.33	1.40	1.09	1.04
Nuclear						
Renewables	5.85	6.61	7.08	8.71	9.22	9.30
Wastes, Non-Renewable	0.23	0.25	0.39	0.70	0.69	0.73
Net Imports	18.02	19.01	24.52	21.57	21.48	20.21
Solid Fuels	2.64	3.02	3.97	3.36	3.06	2.71
of which Hard Coal	2.05	2.34	2.99	2.48	2.20	2.08
Petroleum and Products	10.10	10.84	13.21	11.50	10.91	11.25
of which Crude and NGL	7.56	7.22	7.88	6.70	7.62	8.02
Gases	5.46	5.31	7.15	6.12	6.24	4.99
of which Natural Gas	5.46	5.31	7.15	6.12	6.24	4.99
Renewables	0.04	-0.03	-0.04	0.39	0.47	0.41
Electricity	-0.21	-0.12	0.23	0.20	0.80	0.87
Gross Inland Consumption	27.11	29.02	34.13	34.29	32.47	33.25
Solid Fuels	3.48	3.60	4.00	3.38	3.03	3.18
of which Hard Coal	2.32	2.56	2.80	2.54	2.16	2.51
Petroleum and Products	11.29	12.13	14.40	12.77	11.90	11.96
of which Crude and NGL	8.63	8.31	8.90	7.78	8.56	8.83
Gases	6.44	6.59	8.09	8.12	6.45	6.88
of which Natural Gas	6.44	6.59	8.09	8.12	6.45	6.88
Nuclear						
Renewables	5.89	6.57	7.03	9.11	9.60	9.65
Electricity	-0.21	-0.12	0.23	0.20	0.80	0.87
Wastes, Non-Renewable	0.23	0.25	0.39	0.70	0.69	0.73
Primary Energy Consumption	25.73	27.30	32.42	32.45	30.45	31.33
Available for Final Consumption	22.74	25.45	29.57	30.05	28.76	29.30
Final Non-Energy Consumption	1.38	1.72	1.71	1.84	2.02	1.92
Final Energy Consumption	21.37	23.69	27.84	28.17	26.74	27.37
by Fuel/Product						
Solid Fuels	1.58	1.40	1.40	1.25	1.27	1.46
Petroleum and Products	8.83	9.78	12.04	10.50	9.69	9.84
Gases	3.79	4.50	5.19	5.32	4.88	4.88
Biomass and Renewable Wastes	2.15	2.34	2.67	3.54	3.47	3.64
Solar	0.04	0.06	0.09	0.16	0.18	0.18
Geothermal	0.00	0.01	0.01	0.01	0.01	0.01
Electricity	4.02	4.43	4.94	5.19	5.22	5.23
Derived heat	0.85	1.02	1.28	1.84	1.74	1.83
Wastes, Non-Renewable	0.12	0.15	0.22	0.36	0.29	0.30
by Sector						
Industry	6.41	7.30	8.74	9.24	9.07	9.12
Transport	5.83	6.98	9.04	8.76	8.72	9.00
Residential	6.32	6.34	6.19	6.33	5.62	5.98
Services	2.27	2.55	3.33	3.34	2.80	2.73
Agriculture and Fishing	0.54	0.53	0.54	0.51	0.53	0.55
Other						

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	17.40	17.80	18.90	21.19	24.05	24.44
Combustible Fuels	6.13	6.13	6.46	7.35	7.86	7.67
Nuclear						
Hydro	11.26	11.61	11.63	12.71	13.29	13.35
Wind	0.00	0.05	0.78	0.98	2.11	2.49
Solar PV	0.00	0.01	0.03	0.15	0.79	0.94
Geothermal			0.00	0.00	0.00	0.00
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	56.23	61.26	66.83	71.13	65.44	65.30
Solid Fuels	4.32	5.73	7.17	4.92	2.96	2.98
Petroleum and Products	2.12	1.70	1.64	1.27	0.60	0.86
Gases	9.76	8.86	14.35	16.14	7.36	9.88
Nuclear						
Renewables	39.95	44.82	43.37	48.18	53.77	50.78
Wastes, non-RES	0.07	0.13	0.30	0.61	0.74	0.78
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			2.17	3.16	3.99	2.8
CHP Electricity Generation (TWh)			7.68	10.96	8.49	9.0
CHP in Total Electricity Generation (%)			11.6%	15.4%	13.0%	13.8%
CHP Heat Production (PJ)			100.11	110.61	102.45	105.9
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	5444.1	6515.4	8537.1	7762.8	7637.8	7818.6
Motor Gasoline	2429.1	2015.6	2108.7	1700.3	1529.6	1545.5
Gas/Diesel Oil	2537.4	3891.7	5720.7	5330.1	5398.7	5516.2
Final Consumption Biofuels	10.3	15.7	48.9	495.4	587.0	645.2
Biogasoline				78.9	63.0	60.1
Biodiesel	10.3	15.7	48.9	416.5	524.0	585.1
Main Energy Indicators						
Energy Intensity (toe/M€'10)	124.0	114.4	123.5	116.4	105.6	107.1
Energy per Capita (kgoe/cap)	3413.0	3626.9	4161.3	4106.0	3816.7	3877.0
Final Electricity per Capita (KWh/cap)	5880.5	6440.9	7000.8	7222.2	7132.8	7090.9
Primary Energy Intensity (toe/M€'10)	117.7	107.6	117.3	110.2	99.0	100.9
Import Dependency (%)	66.4%	65.4%	71.8%	62.9%	66.1%	60.8%
of Solid Fuels	75.7%	83.9%	99.3%	99.4%	100.9%	85.2%
of Hard Coal	88.3%	91.6%	107.1%	97.5%	101.7%	82.9%
of Petroleum Fuels	89.3%	89.1%	91.6%	89.9%	91.6%	94.0%
of Crude and NGL	87.6%	86.9%	88.5%	86.2%	89.0%	90.8%
of Natural Gas	84.8%	80.6%	88.5%	75.3%	96.8%	72.5%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			23.9%	30.4%	32.8%	33.0%
RES-H&C – Heating and Cooling			22.3%	29.5%	32.0%	32.0%
RES-E – Electricity Generation			62.0%	65.7%	70.1%	70.3%
RES-T – Transport			4.8%	10.9%	10.9%	11.4%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	65.53	68.04	81.33	74.60	66.18	68.85
GHGs Emissions*	81.16	82.25	94.62	87.13	78.38	81.00
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	8250.0	8502.8	9916.5	8932.0	7779.7	8028.2
Carbon Intensity (kg CO ₂ /toe)	2415.5	2342.5	2381.2	2174.0	2037.1	2069.7
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	299.8	268.2	294.4	253.2	215.2	221.8

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.21 Poland

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	99.38	79.59	78.59	67.39	67.91	68.33
Solid Fuels	91.07	71.30	68.86	55.38	54.03	53.87
of which Hard Coal	78.19	59.18	56.12	43.82	41.60	41.57
Petroleum and Products	0.37	1.06	1.14	1.06	1.56	1.62
of which Crude and NGL	0.27	0.63	0.84	0.68	0.93	0.91
Gases	3.18	3.32	3.89	3.70	3.73	3.68
of which Natural Gas	3.17	3.31	3.88	3.69	3.73	3.68
Nuclear						
Renewables	3.92	3.81	4.55	6.85	8.07	8.64
Wastes, Non-Renewable	0.84	0.10	0.16	0.40	0.52	0.52
Net Imports	-1.16	8.77	15.94	31.53	27.05	28.02
Solid Fuels	-21.25	-16.35	-13.04	-2.81	-4.29	-5.61
of which Hard Coal	-18.94	-13.85	-9.70	1.80	0.43	-0.96
Petroleum and Products	14.52	19.07	21.47	25.16	20.97	23.35
of which Crude and NGL	11.95	17.36	17.54	22.28	22.83	25.85
Gases	5.81	6.61	8.53	8.87	9.65	9.95
of which Natural Gas	5.81	6.61	8.53	8.87	9.65	9.95
Renewables	0.00	0.00	-0.07	0.43	0.54	0.36
Electricity	-0.24	-0.55	-0.96	-0.12	0.19	-0.03
Gross Inland Consumption	98.83	88.65	92.22	100.68	94.33	95.43
Solid Fuels	70.31	56.29	54.61	54.61	49.24	48.26
of which Hard Coal	59.72	46.35	45.55	47.94	41.39	40.69
Petroleum and Products	15.00	19.04	21.69	25.71	22.37	23.92
of which Crude and NGL	12.31	17.51	18.03	22.64	23.66	25.73
Gases	9.00	9.96	12.24	12.81	13.41	13.78
of which Natural Gas	9.00	9.96	12.24	12.81	13.40	13.78
Nuclear						
Renewables	3.92	3.80	4.49	7.27	8.61	8.99
Electricity	-0.24	-0.55	-0.96	-0.12	0.19	-0.03
Wastes, Non-Renewable	0.84	0.10	0.16	0.40	0.52	0.52
Primary Energy Consumption	95.12	84.29	87.65	95.72	89.17	90.00
Available for Final Consumption	67.25	58.57	62.71	71.09	66.19	66.52
Final Non-Energy Consumption	3.71	4.36	4.57	4.96	5.16	5.43
Final Energy Consumption	62.94	55.21	58.47	66.33	61.60	62.25
by Fuel/Product						
Solid Fuels	22.58	13.22	12.21	13.77	12.03	11.69
Petroleum and Products	11.65	15.50	17.84	20.73	18.60	19.19
Gases	7.76	7.57	8.77	9.46	8.94	8.98
Biomass and Renewable Wastes	3.73	3.52	3.85	5.22	5.25	5.39
Solar				0.01	0.04	0.05
Geothermal		0.00	0.01	0.01	0.02	0.02
Electricity	7.71	8.43	9.03	10.21	10.78	10.99
Derived heat	8.82	6.89	6.63	6.55	5.45	5.46
Wastes, Non-Renewable	0.70	0.08	0.14	0.38	0.50	0.49
by Sector						
Industry	23.03	18.45	15.32	14.10	15.03	15.05
Transport	8.30	9.92	12.54	17.70	16.37	17.24
Residential	22.67	17.19	19.45	21.97	18.97	18.84
Services	4.16	4.97	6.73	8.83	7.79	7.81
Agriculture and Fishing	4.78	4.64	4.43	3.73	3.43	3.31
Other	0.01	0.04	0.00	0.00	0.00	0.00

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	29.48	30.56	32.26	33.36	35.99	37.32
Combustible Fuels	27.42	28.37	29.78	29.91	29.76	29.96
Nuclear						
Hydro	2.06	2.18	2.32	2.34	2.36	2.37
Wind		0.00	0.12	1.11	3.84	4.89
Solar PV					0.03	0.11
Geothermal						
Tide, Wave and Ocean						
Other Sources			0.04	0.00	0.00	0.00
Gross Electricity Generation (TWh)	139.01	145.18	156.94	157.66	159.06	164.94
Solid Fuels	131.77	135.89	141.88	136.51	129.52	130.52
Petroleum and Products	1.52	1.92	2.76	2.89	1.59	2.12
Gases	1.50	2.96	6.53	6.67	7.36	8.83
Nuclear						
Renewables	3.92	4.34	5.42	11.46	20.39	23.29
Wastes, non-RES	0.30	0.08	0.04	0.05	0.05	0.08
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			8.31	8.69	8.55	8.6
CHP Electricity Generation (TWh)			26.30	27.71	24.09	26.5
CHP in Total Electricity Generation (%)			16.8%	17.6%	15.1%	16.1%
CHP Heat Production (PJ)			275.43	277.10	237.65	238.6
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	7890.9	9459.2	11911.1	16319.9	15044.0	15834.6
Motor Gasoline	4610.3	5319.2	4229.6	4243.3	3535.4	3654.2
Gas/Diesel Oil	2796.3	3395.7	5657.1	9740.1	9153.7	9817.5
Final Consumption Biofuels			49.3	867.4	705.3	780.3
Biogasoline			33.9	169.6	132.8	153.5
Biodiesel			15.4	697.8	572.5	626.8
Main Energy Indicators						
Energy Intensity (toe/M€'10)	518.7	360.0	321.7	278.3	233.3	227.3
Energy per Capita (kgoe/cap)	2561.6	2316.8	2415.9	2647.9	2481.1	2511.1
Final Electricity per Capita (KWh/cap)	2324.8	2563.1	2750.7	3121.5	3297.1	3363.2
Primary Energy Intensity (toe/M€'10)	499.2	342.3	305.8	264.6	220.6	214.4
Import Dependency (%)	-1.2%	9.9%	17.2%	31.3%	28.6%	29.3%
of Solid Fuels	-30.2%	-29.1%	-23.9%	-5.2%	-8.7%	-11.6%
of Hard Coal	-31.7%	-29.9%	-21.3%	3.7%	1.0%	-2.4%
of Petroleum Fuels	95.9%	98.7%	97.5%	97.0%	93.1%	96.8%
of Crude and NGL	97.1%	99.1%	97.3%	98.4%	96.5%	100.5%
of Natural Gas	64.6%	66.3%	69.7%	69.3%	72.0%	72.2%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			6.9%	9.3%	11.5%	11.8%
RES-H&C – Heating and Cooling			10.2%	11.7%	14.0%	14.3%
RES-E – Electricity Generation			2.7%	6.6%	12.4%	13.4%
RES-T – Transport			1.6%	6.6%	6.2%	6.4%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	362.06	317.87	322.56	333.56	309.29	312.51
GHGs Emissions*	439.70	391.37	399.84	408.42	384.68	387.73
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	9384.6	8307.4	8449.7	8772.7	8135.5	8222.8
Carbon Intensity (kg CO ₂ /toe)	3658.4	3574.4	3485.5	3306.0	3273.9	3268.2
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	1900.3	1291.0	1125.2	921.9	765.1	744.4

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.22 Portugal

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	3.38	3.89	3.62	5.80	6.19	5.51
Solid Fuels						
of which Hard Coal						
Petroleum and Products					0.21	0.20
of which Crude and NGL						
Gases	0.07	0.05				
of which Natural Gas						
Nuclear						
Renewables	3.32	3.76	3.48	5.64	5.84	5.18
Wastes, Non-Renewable		0.09	0.14	0.16	0.15	0.12
Net Imports	18.02	22.07	24.85	18.59	16.15	18.30
Solid Fuels	3.81	3.91	3.23	1.63	2.60	3.21
of which Hard Coal	3.84	3.97	3.22	1.63	2.59	3.20
Petroleum and Products	14.14	16.04	17.14	12.44	10.29	11.01
of which Crude and NGL	13.04	11.63	13.46	11.39	10.61	14.18
Gases	0.00	2.04	3.89	4.51	3.48	4.07
of which Natural Gas	0.00	2.04	3.89	4.51	3.48	4.07
Renewables				-0.21	-0.32	-0.21
Electricity	0.08	0.08	0.59	0.23	0.08	0.19
Gross Inland Consumption	20.64	25.29	27.48	24.28	22.09	23.00
Solid Fuels	3.60	3.81	3.35	1.66	2.68	3.21
of which Hard Coal	3.63	3.84	3.35	1.66	2.67	3.20
Petroleum and Products	13.57	15.48	16.17	12.29	10.17	10.40
of which Crude and NGL	13.04	11.76	13.44	11.53	10.86	14.06
Gases	0.07	2.08	3.75	4.49	3.47	4.07
of which Natural Gas	0.00	2.03	3.75	4.49	3.47	4.07
Nuclear						
Renewables	3.32	3.76	3.48	5.46	5.51	4.97
Electricity	0.08	0.08	0.59	0.23	0.08	0.20
Wastes, Non-Renewable	0.00	0.09	0.14	0.16	0.17	0.16
Primary Energy Consumption	18.55	22.89	24.89	22.55	20.65	21.66
Available for Final Consumption	15.92	20.22	21.69	19.81	17.18	17.29
Final Non-Energy Consumption	2.08	2.39	2.59	1.73	1.44	1.34
Final Energy Consumption	13.85	17.92	19.01	18.10	15.77	16.04
by Fuel/Product						
Solid Fuels	0.54	0.47	0.02	0.05	0.01	0.01
Petroleum and Products	8.27	10.71	10.81	9.28	7.83	7.96
Gases	0.11	0.87	1.31	1.56	1.55	1.64
Biomass and Renewable Wastes	2.40	2.41	2.51	2.48	2.05	2.10
Solar	0.02	0.02	0.02	0.05	0.08	0.08
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	2.48	3.30	3.98	4.29	3.89	3.94
Derived heat	0.04	0.13	0.33	0.34	0.27	0.24
Wastes, Non-Renewable			0.03	0.06	0.09	0.06
by Sector						
Industry	4.93	6.32	5.80	5.45	4.41	4.45
Transport	4.94	6.64	7.19	7.30	6.44	6.61
Residential	2.56	2.80	3.22	2.97	2.57	2.54
Services	0.91	1.40	2.20	1.88	1.90	1.96
Agriculture and Fishing	0.49	0.73	0.58	0.46	0.43	0.44
Other	0.03	0.04	0.03	0.03	0.03	0.04

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	9.38	10.91	13.37	18.93	19.13	19.63
Combustible Fuels	4.89	6.28	7.28	9.87	8.11	8.05
Nuclear						
Hydro	4.48	4.54	5.02	5.11	5.72	6.17
Wind	0.01	0.08	1.06	3.80	4.86	4.94
Solar PV		0.00	0.00	0.13	0.42	0.45
Geothermal	0.01	0.01	0.01	0.03	0.03	0.03
Tide, Wave and Ocean						0.00
Other Sources						
Gross Electricity Generation (TWh)	33.27	43.76	46.58	54.09	52.80	52.42
Solid Fuels	13.41	14.60	15.23	7.10	11.95	14.73
Petroleum and Products	10.31	8.42	8.79	3.01	1.36	1.31
Gases	0.05	7.23	13.61	14.90	6.83	10.56
Nuclear						
Renewables	9.50	13.26	8.65	28.75	32.40	25.51
Wastes, non-RES	0.00	0.26	0.31	0.33	0.25	0.30
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			1.08	1.31	1.38	1.3
CHP Electricity Generation (TWh)			5.42	6.36	6.80	6.5
CHP in Total Electricity Generation (%)			11.6%	11.8%	12.9%	12.3%
CHP Heat Production (PJ)			59.61	67.22	69.30	59.3
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	4912.7	6603.5	7136.5	6940.3	6142.2	6245.3
Motor Gasoline	2022.4	2271.7	1934.6	1450.3	1144.5	1099.3
Gas/Diesel Oil	2272.7	3522.9	4285.6	4366.0	3824.1	3885.9
Final Consumption Biofuels				309.1	261.2	327.6
Biogasoline					2.0	22.2
Biodiesel				304.9	254.5	302.2
Main Energy Indicators						
Energy Intensity (toe/M€'10)	150.8	151.3	157.4	135.0	130.6	133.9
Energy per Capita (kgoe/cap)	2061.7	2467.1	2618.0	2296.5	2118.0	2216.6
Final Electricity per Capita (KWh/cap)	2877.9	3744.1	4413.9	4718.2	4334.3	4415.7
Primary Energy Intensity (toe/M€'10)	135.6	137.0	142.6	125.3	122.1	126.1
Import Dependency (%)	85.3%	85.1%	88.6%	75.1%	71.2%	77.4%
of Solid Fuels	105.8%	102.9%	96.3%	98.3%	96.9%	100.0%
of Hard Coal	105.9%	103.4%	96.3%	98.2%	96.9%	100.0%
of Petroleum Fuels	100.6%	99.4%	102.3%	97.5%	95.5%	99.7%
of Crude and NGL	100.0%	99.0%	100.2%	98.8%	97.7%	100.9%
of Natural Gas		100.2%	103.8%	100.4%	100.1%	99.8%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			19.5%	24.2%	27.0%	28.0%
RES-H&C – Heating and Cooling			32.1%	33.9%	34.0%	33.4%
RES-E – Electricity Generation			27.7%	40.7%	52.1%	52.6%
RES-T – Transport			0.5%	5.6%	3.7%	7.4%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	56.36	67.90	71.60	55.42	50.91	55.33
GHGs Emissions*	71.68	84.52	88.61	72.12	67.39	72.09
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	5631.3	6624.7	6822.1	5241.5	4882.1	5333.5
Carbon Intensity (kg CO ₂ /toe)	2668.7	2616.7	2552.4	2240.1	2243.6	2340.8
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	411.8	406.2	410.3	308.0	301.0	322.1

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.23 Romania

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	32.31	28.47	28.22	27.82	26.66	26.74
Solid Fuels	7.89	5.60	5.80	5.90	4.45	4.71
of which Hard Coal	0.65	0.16	0.02	0.00	0.04	0.01
Petroleum and Products	6.82	6.36	6.23	4.57	4.28	4.24
of which Crude and NGL	6.72	6.30	5.58	4.52	4.18	4.13
Gases	14.45	10.97	9.70	8.62	8.77	8.79
of which Natural Gas	14.45	10.97	9.70	8.62	8.77	8.79
Nuclear	0.00	1.41	1.43	3.00	3.01	3.00
Renewables	2.80	4.04	4.98	5.71	6.09	5.94
Wastes, Non-Renewable	0.37	0.09	0.09	0.03	0.07	0.07
Net Imports	14.03	7.99	10.84	7.83	5.50	5.54
Solid Fuels	2.86	1.92	2.94	1.23	1.00	1.03
of which Hard Coal	3.01	1.65	2.42	0.47	0.41	0.47
Petroleum and Products	6.36	3.42	3.96	4.84	4.61	4.89
of which Crude and NGL	8.31	4.76	8.86	6.03	6.86	6.72
Gases	4.79	2.71	4.19	1.82	0.47	0.16
of which Natural Gas	4.79	2.71	4.19	1.82	0.47	0.16
Renewables	0.00	0.00	0.00	0.14	0.04	0.04
Electricity	0.03	-0.06	-0.25	-0.20	-0.61	-0.58
Gross Inland Consumption	46.31	36.65	39.21	35.80	32.16	32.41
Solid Fuels	10.79	7.49	8.79	7.01	5.75	5.91
of which Hard Coal	3.69	1.72	2.37	0.47	0.47	0.49
Petroleum and Products	13.09	9.99	10.29	9.31	8.47	9.10
of which Crude and NGL	15.14	10.96	14.44	10.67	10.71	10.78
Gases	19.24	13.68	13.92	10.79	9.35	8.93
of which Natural Gas	19.24	13.68	13.92	10.79	9.35	8.93
Nuclear		1.41	1.43	3.00	3.01	3.00
Renewables	2.80	4.04	4.94	5.86	6.12	5.97
Electricity	0.03	-0.06	-0.25	-0.20	-0.61	-0.58
Wastes, Non-Renewable	0.37	0.10	0.09	0.03	0.07	0.07
Primary Energy Consumption	45.07	34.77	36.74	34.33	30.64	31.29
Available for Final Consumption	30.36	25.03	26.87	24.77	22.76	23.04
Final Non-Energy Consumption	1.24	1.88	2.47	1.47	1.52	1.13
Final Energy Consumption	26.97	22.77	24.71	22.59	21.72	21.89
by Fuel/Product						
Solid Fuels	1.64	1.05	1.61	0.94	0.72	0.84
Petroleum and Products	5.70	5.53	6.63	6.19	6.80	7.01
Gases	10.34	6.91	7.75	6.19	5.64	5.47
Biomass and Renewable Wastes	1.28	2.74	3.17	4.02	3.60	3.51
Solar				0.00	0.00	0.00
Geothermal	0.00	0.01	0.02	0.02	0.02	0.02
Electricity	3.13	2.92	3.34	3.55	3.60	3.70
Derived heat	4.68	3.57	2.14	1.65	1.27	1.27
Wastes, Non-Renewable	0.20	0.06	0.06	0.03	0.07	0.07
by Sector						
Industry	15.15	9.30	10.01	6.88	6.47	6.47
Transport	3.11	3.46	4.28	5.12	5.47	5.58
Residential	6.33	8.41	7.99	8.10	7.41	7.38
Services	0.51	0.67	1.67	1.88	1.77	1.76
Agriculture and Fishing	1.00	0.40	0.22	0.39	0.42	0.46
Other	0.87	0.54	0.56	0.21	0.18	0.25

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	6.00	6.12	18.95	19.91	23.88	23.83
Combustible Fuels			11.95	11.64	11.32	11.23
Nuclear			0.71	1.41	1.41	1.41
Hydro	6.00	6.12	6.29	6.47	6.61	6.73
Wind			0.00	0.39	3.24	3.13
Solar PV					1.29	1.33
Geothermal						
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	59.27	51.93	59.41	60.98	65.68	66.30
Solid Fuels	20.59	18.93	21.92	20.68	17.76	18.13
Petroleum and Products	5.80	3.40	1.89	0.69	0.49	0.47
Gases	15.97	9.00	9.83	7.32	8.15	9.48
Nuclear		5.46	5.56	11.62	11.68	11.64
Renewables	16.69	14.78	20.21	20.66	27.60	26.58
Wastes, non-RES	0.00	0.00	0.00	0.00	0.00	0.00
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			5.25	4.58	1.82	1.8
CHP Electricity Generation (TWh)			15.55	6.54	6.10	5.6
CHP in Total Electricity Generation (%)			26.2%	10.8%	9.3%	8.4%
CHP Heat Production (PJ)			95.39	69.00	55.36	51.0
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	2911.9	3273.3	4103.3	4881.6	5211.4	5280.2
Motor Gasoline	1082.1	1321.2	1599.8	1412.3	1354.1	1268.9
Gas/Diesel Oil	1583.1	1756.2	2298.3	3172.3	3567.7	3676.1
Final Consumption Biofuels				115.3	166.6	202.5
Biogasoline				46.7	41.6	61.5
Biodiesel				68.6	125.0	141.0
Main Energy Indicators						
Energy Intensity (toe/M€'10)	550.9	441.7	357.1	282.5	233.8	226.7
Energy per Capita (kgoe/cap)	2038.8	1632.1	1833.6	1764.0	1612.1	1631.2
Final Electricity per Capita (KWh/cap)	1600.6	1511.4	1817.3	2035.9	2100.8	2165.5
Primary Energy Intensity (toe/M€'10)	536.2	419.0	334.7	270.8	222.7	218.8
Import Dependency (%)	30.3%	21.8%	27.6%	21.9%	17.1%	17.1%
of Solid Fuels	26.5%	25.6%	33.4%	17.6%	17.4%	17.4%
of Hard Coal	81.7%	96.0%	102.2%	100.9%	87.0%	95.3%
of Petroleum Fuels	48.6%	34.2%	38.5%	51.9%	54.0%	53.4%
of Crude and NGL	54.9%	43.5%	61.3%	56.5%	64.1%	62.4%
of Natural Gas	24.9%	19.8%	30.1%	16.8%	5.0%	1.8%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			17.3%	23.4%	24.8%	24.8%
RES-H&C – Heating and Cooling			18.0%	27.2%	26.7%	25.9%
RES-E – Electricity Generation			26.9%	30.4%	41.7%	43.2%
RES-T – Transport			1.6%	3.8%	4.7%	5.5%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	126.08	93.39	99.96	82.76	77.81	79.39
GHGs Emissions*	181.74	140.60	146.84	121.40	116.04	117.81
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	5551.2	4158.8	4675.0	4078.1	3901.0	3995.3
Carbon Intensity (kg CO ₂ /toe)	2722.9	2548.1	2549.7	2310.8	2413.7	2445.9
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	1500.1	1125.4	910.6	653.0	565.7	555.2

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.24 Slovenia

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	2.96	3.09	3.49	3.78	3.67	3.40
Solid Fuels	1.19	1.06	1.18	1.20	0.82	0.86
of which Hard Coal						
Petroleum and Products	0.00	0.00	0.00	0.01	0.01	0.00
of which Crude and NGL	0.00	0.00				
Gases	0.02	0.01	0.00	0.01	0.00	0.00
of which Natural Gas	0.02	0.01	0.00	0.01	0.00	0.00
Nuclear	1.23	1.23	1.52	1.46	1.64	1.46
Renewables	0.51	0.79	0.77	1.09	1.16	1.03
Wastes, Non-Renewable	0.00	0.00	0.01	0.02	0.04	0.04
Net Imports	3.09	3.41	3.86	3.58	2.99	3.23
Solid Fuels	0.19	0.24	0.32	0.28	0.22	0.20
of which Hard Coal	0.14	0.20	0.29	0.23	0.19	0.18
Petroleum and Products	2.26	2.46	2.63	2.60	2.33	2.34
of which Crude and NGL	0.49	0.13				
Gases	0.75	0.82	0.93	0.86	0.62	0.66
of which Natural Gas	0.75	0.82	0.93	0.86	0.62	0.66
Renewables	0.03	0.00	0.00	0.03	0.05	0.03
Electricity	-0.14	-0.11	-0.03	-0.18	-0.24	0.00
Gross Inland Consumption	6.07	6.45	7.33	7.34	6.65	6.58
Solid Fuels	1.38	1.31	1.54	1.45	1.05	1.07
of which Hard Coal	0.14	0.19	0.30	0.23	0.18	0.18
Petroleum and Products	2.32	2.42	2.58	2.60	2.33	2.29
of which Crude and NGL	0.51	0.14				
Gases	0.75	0.83	0.93	0.86	0.63	0.66
of which Natural Gas	0.75	0.83	0.93	0.86	0.63	0.66
Nuclear	1.23	1.23	1.52	1.46	1.64	1.46
Renewables	0.54	0.79	0.77	1.12	1.20	1.06
Electricity	-0.14	-0.11	-0.03	-0.18	-0.24	0.00
Wastes, Non-Renewable	0.00	0.00	0.01	0.02	0.04	0.04
Primary Energy Consumption	5.95	6.21	7.02	7.13	6.51	6.45
Available for Final Consumption	4.23	4.70	5.23	5.27	4.73	4.82
Final Non-Energy Consumption	0.12	0.24	0.31	0.21	0.14	0.13
Final Energy Consumption	4.09	4.46	4.90	5.04	4.59	4.69
by Fuel/Product						
Solid Fuels	0.11	0.09	0.08	0.05	0.04	0.04
Petroleum and Products	2.13	2.26	2.41	2.47	2.18	2.17
Gases	0.58	0.57	0.67	0.62	0.52	0.56
Biomass and Renewable Wastes	0.26	0.44	0.44	0.62	0.54	0.57
Solar				0.01	0.01	0.01
Geothermal				0.03	0.04	0.04
Electricity	0.80	0.91	1.10	1.03	1.07	1.10
Derived heat	0.21	0.20	0.20	0.19	0.15	0.17
Wastes, Non-Renewable	0.00	0.00	0.01	0.02	0.04	0.04
by Sector						
Industry	1.18	1.42	1.64	1.27	1.23	1.23
Transport	1.35	1.26	1.49	1.81	1.82	1.80
Residential	1.16	1.13	1.19	1.33	1.02	1.11
Services	0.40	0.53	0.48	0.53	0.43	0.46
Agriculture and Fishing	0.00	0.08	0.08	0.07	0.08	0.08
Other	0.00	0.04	0.02	0.03	0.02	0.02

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	2.52	2.61	2.99	3.19	3.45	3.36
Combustible Fuels	1.10	1.12	1.36	1.26	1.24	1.13
Nuclear	0.66	0.66	0.66	0.67	0.69	0.69
Hydro	0.76	0.84	0.98	1.25	1.30	1.30
Wind					0.00	0.01
Solar PV				0.01	0.22	0.24
Geothermal						
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	12.91	13.62	15.12	16.44	17.44	15.10
Solid Fuels	4.60	4.61	5.27	5.29	3.76	4.39
Petroleum and Products	0.26	0.06	0.04	0.01	0.04	0.02
Gases	0.02	0.29	0.34	0.55	0.37	0.40
Nuclear	4.78	4.76	5.88	5.66	6.37	5.65
Renewables	3.25	3.90	3.58	4.93	6.89	4.64
Wastes, non-RES			0.01	0.01	0.01	0.01
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			0.34	0.33	0.37	0.4
CHP Electricity Generation (TWh)			1.10	1.14	1.17	1.2
CHP in Total Electricity Generation (%)			7.3%	6.9%	7.1%	7.7%
CHP Heat Production (PJ)			15.00	11.60	10.15	10.4
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 334.4	1 236.2	1 475.9	1 745.8	1 764.4	1 754.0
Motor Gasoline	880.5	860.1	698.1	600.1	447.2	436.7
Gas/Diesel Oil	433.4	350.4	754.1	1 111.1	1 276.9	1 275.9
Final Consumption Biofuels				45.7	43.7	29.4
Biogasoline				4.3	7.6	6.5
Biodiesel				41.4	36.1	22.9
Main Energy Indicators						
Energy Intensity (toe/M€'10)	268.3	231.3	220.1	202.4	183.7	177.6
Energy per Capita (kgoe/cap)	3 052.1	3 245.4	3 666.9	3 584.3	3 227.9	3 189.2
Final Electricity per Capita (KWh/cap)	4 696.2	5 292.9	6 378.7	5 835.4	6 044.9	6 199.1
Primary Energy Intensity (toe/M€'10)	263.1	222.8	210.9	196.6	179.8	174.2
Import Dependency (%)	50.9%	52.8%	52.5%	48.7%	44.5%	48.7%
of Solid Fuels	13.6%	18.7%	21.0%	19.2%	21.4%	18.9%
of Hard Coal	100.0%	100.5%	93.8%	100.9%	103.8%	96.7%
of Petroleum Fuels	97.8%	101.5%	101.2%	99.2%	97.7%	99.6%
of Crude and NGL	95.9%	87.5%				
of Natural Gas	100.5%	99.3%	99.6%	99.3%	99.5%	99.7%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			16.0%	20.4%	21.5%	22.0%
RES-H&C – Heating and Cooling			18.9%	28.1%	32.4%	34.1%
RES-E – Electricity Generation			28.7%	32.2%	33.9%	32.7%
RES-T – Transport			0.8%	3.1%	2.9%	2.2%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	15.30	15.50	16.99	16.43	13.58	13.67
GHGs Emissions*	18.78	19.16	20.56	19.68	16.68	16.91
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	7 691.4	7 797.3	8 505.5	8 028.2	6 590.9	6 627.7
Carbon Intensity (kg CO ₂ /toe)	2 520.1	2 402.6	2 312.9	2 234.3	2 025.1	2 058.8
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	676.1	555.8	510.6	453.3	375.1	369.0

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.25 Slovak Republic

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	5.06	6.39	6.68	6.35	6.72	6.74
Solid Fuels	1.02	1.02	0.64	0.61	0.58	0.50
of which Hard Coal						
Petroleum and Products	0.13	0.17	0.38	0.39	0.42	0.43
of which Crude and NGL	0.07	0.06	0.04	0.02	0.01	0.01
Gases	0.26	0.13	0.13	0.09	0.08	0.08
of which Natural Gas	0.26	0.13	0.13	0.09	0.08	0.08
Nuclear	2.95	4.26	4.63	3.82	4.04	3.95
Renewables	0.50	0.50	0.86	1.40	1.44	1.59
Wastes, Non-Renewable	0.21	0.32	0.05	0.03	0.15	0.19
Net Imports	12.14	12.00	12.43	11.26	9.86	9.64
Solid Fuels	4.14	3.43	3.74	2.95	2.85	2.77
of which Hard Coal	3.10	3.15	3.48	2.57	2.59	2.53
Petroleum and Products	3.36	3.09	3.27	3.30	2.98	2.99
of which Crude and NGL	5.09	5.72	5.43	5.31	5.36	5.77
Gases	4.53	5.71	5.74	5.00	3.95	3.69
of which Natural Gas	4.53	5.71	5.74	5.00	3.95	3.69
Renewables			-0.04	-0.08	-0.03	-0.02
Electricity	0.12	-0.23	-0.28	0.09	0.10	0.21
Gross Inland Consumption	17.72	18.30	19.03	17.86	16.18	16.43
Solid Fuels	5.39	4.28	4.23	3.90	3.42	3.28
of which Hard Coal	3.34	3.03	3.31	2.79	2.63	2.59
Petroleum and Products	3.34	3.42	3.71	3.68	3.28	3.34
of which Crude and NGL	5.01	5.86	5.56	5.32	5.30	5.81
Gases	5.22	5.78	5.88	5.01	3.77	3.88
of which Natural Gas	5.22	5.78	5.88	5.01	3.77	3.88
Nuclear	2.95	4.26	4.63	3.82	4.04	3.95
Renewables	0.50	0.49	0.81	1.33	1.42	1.58
Electricity	0.12	-0.23	-0.28	0.09	0.10	0.21
Wastes, Non-Renewable	0.21	0.32	0.05	0.04	0.15	0.19
Primary Energy Consumption	16.79	16.94	17.75	16.80	15.25	15.38
Available for Final Consumption	12.23	12.72	12.84	12.65	10.98	11.16
Final Non-Energy Consumption	0.93	1.37	1.28	1.05	0.93	1.05
Final Energy Consumption	11.03	10.98	11.56	11.55	9.98	10.08
by Fuel/Product						
Solid Fuels	2.56	1.75	1.57	1.64	1.43	1.32
Petroleum and Products	1.61	1.70	2.18	2.30	2.11	2.12
Gases	4.07	4.70	4.54	4.12	3.11	3.09
Biomass and Renewable Wastes	0.08	0.09	0.33	0.54	0.51	0.63
Solar				0.00	0.01	0.01
Geothermal			0.00	0.00	0.00	0.00
Electricity	1.87	1.89	1.97	2.08	2.08	2.10
Derived heat	0.72	0.62	0.95	0.85	0.61	0.63
Wastes, Non-Renewable	0.12	0.23	0.02	0.02	0.14	0.17
by Sector						
Industry	4.69	4.53	4.71	4.36	4.45	4.43
Transport	1.41	1.45	2.39	2.63	2.21	2.21
Residential	1.98	2.59	2.54	2.31	1.95	1.99
Services	2.66	2.20	1.75	2.11	1.23	1.30
Agriculture and Fishing	0.30	0.21	0.17	0.13	0.14	0.15
Other						

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	7.24	7.45	8.26	7.87	8.09	7.78
Combustible Fuels	3.22	2.39	3.09	3.50	3.07	2.75
Nuclear	1.76	2.64	2.64	1.82	1.94	1.94
Hydro	2.26	2.42	2.51	2.52	2.52	2.52
Wind			0.01	0.00	0.00	0.00
Solar PV				0.02	0.53	0.53
Geothermal						
Tide, Wave and Ocean						
Other Sources			0.01	0.02	0.03	0.03
Gross Electricity Generation (TWh)	26.77	31.16	31.46	27.86	27.40	26.90
Solid Fuels	6.46	5.58	5.54	3.57	2.87	2.83
Petroleum and Products	0.74	0.20	0.74	0.60	0.30	0.38
Gases	2.92	3.87	2.63	2.72	2.10	2.11
Nuclear	11.44	16.49	17.73	14.57	15.50	15.15
Renewables	5.23	4.98	4.78	6.33	6.48	6.31
Wastes, non-RES		0.03	0.02	0.02	0.03	0.03
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			5.41	2.82	-	3.7
CHP Electricity Generation (TWh)			4.80	4.43	-	21.1
CHP in Total Electricity Generation (%)			15.3%	15.9%	-	78.5%
CHP Heat Production (PJ)			33.68	20.06	-	27.3
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	1 294.1	1 371.5	1 731.1	2 092.9	1 936.3	1 924.3
Motor Gasoline	512.2	605.0	666.8	599.5	551.6	576.8
Gas/Diesel Oil	741.8	739.8	1 011.3	1 449.9	1 316.5	1 266.7
Final Consumption Biofuels			11.2	97.7	133.9	143.9
Biogasoline				23.8	24.6	22.9
Biodiesel			11.2	73.9	109.3	121.0
Main Energy Indicators						
Energy Intensity (toe/M€'10)	503.1	436.9	355.1	264.2	220.1	215.2
Energy per Capita (kgoe/cap)	3 308.1	3 390.1	3 541.8	3 312.4	2 987.7	3 029.9
Final Electricity per Capita (KWh/cap)	4 057.0	4 076.9	4 253.0	4 477.4	4 460.3	4 495.4
Primary Energy Intensity (toe/M€'10)	476.8	404.3	331.2	248.6	207.4	201.4
Import Dependency (%)	68.5 %	65.6 %	65.3 %	63.1 %	60.9 %	58.7 %
of Solid Fuels	76.7%	80.2%	88.4%	75.7%	83.3%	84.6%
of Hard Coal	92.9%	103.8%	105.2%	91.9%	98.5%	97.5%
of Petroleum Fuels	100.6%	90.5%	88.2%	89.5%	91.0%	89.4%
of Crude and NGL	101.5%	97.6%	97.7%	99.9%	101.1%	99.3%
of Natural Gas	86.8%	98.8%	97.5%	99.9%	104.8%	95.1%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			6.4%	9.1%	11.7%	12.9%
RES-H&C – Heating and Cooling			5.0%	7.9%	8.9%	10.8%
RES-E – Electricity Generation			15.7%	17.8%	22.9%	22.7%
RES-T – Transport			1.6%	5.3%	7.6%	8.5%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	44.83	41.31	42.89	38.67	33.56	33.96
GHGs Emissions*	54.46	49.91	51.54	46.69	40.80	41.42
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	8 369.2	7 652.5	7 982.4	7 173.5	6 196.7	6 264.3
Carbon Intensity (kg CO ₂ /toe)	2 529.9	2 257.3	2 253.8	2 165.7	2 074.1	2 067.5
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	1 272.9	986.1	800.3	572.2	456.4	444.8

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.26 Finland

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	13.13	15.16	16.95	17.99	18.72	18.17
Solid Fuels	2.03	1.09	2.14	1.81	1.60	0.84
of which Hard Coal						
Petroleum and Products	0.02	0.46	0.54	0.72	0.67	0.70
of which Crude and NGL						
Gases					0.00	0.01
of which Natural Gas					0.00	0.01
Nuclear	4.96	5.80	6.00	5.88	6.08	6.00
Renewables	6.12	7.75	8.16	9.43	10.12	10.39
Wastes, Non-Renewable	0.01	0.07	0.11	0.15	0.24	0.24
Net Imports	15.91	18.22	18.95	17.84	17.06	15.66
Solid Fuels	3.83	3.51	3.31	3.95	3.59	2.46
of which Hard Coal	3.67	3.21	3.01	3.68	3.36	2.24
Petroleum and Products	8.51	10.26	10.65	9.23	9.21	9.46
of which Crude and NGL	8.67	11.56	10.57	11.21	12.08	11.10
Gases	2.84	3.43	3.61	3.84	2.51	2.24
of which Natural Gas	2.84	3.43	3.61	3.84	2.51	2.24
Renewables			-0.08	-0.08	0.19	0.09
Electricity	0.72	1.02	1.46	0.90	1.55	1.41
Gross Inland Consumption	29.36	32.41	34.50	37.11	34.77	33.16
Solid Fuels	6.05	5.09	4.90	6.87	4.47	4.03
of which Hard Coal	4.12	3.28	2.93	4.31	2.84	2.49
Petroleum and Products	8.66	9.25	10.33	10.12	9.62	8.76
of which Crude and NGL	9.21	11.39	10.83	11.09	12.16	10.66
Gases	2.84	3.43	3.61	3.84	2.52	2.24
of which Natural Gas	2.84	3.43	3.61	3.84	2.52	2.24
Nuclear	4.96	5.80	6.00	5.88	6.08	6.00
Renewables	6.13	7.75	8.09	9.35	10.30	10.49
Electricity	0.72	1.02	1.46	0.90	1.55	1.41
Wastes, Non-Renewable	0.01	0.07	0.11	0.15	0.24	0.24
Primary Energy Consumption	28.24	31.37	33.35	35.88	33.57	31.95
Available for Final Consumption	21.92	24.76	26.44	27.50	26.39	25.43
Final Non-Energy Consumption	1.13	1.04	1.15	1.22	1.20	1.21
Final Energy Consumption	21.97	24.32	25.19	26.25	24.50	24.18
by Fuel/Product						
Solid Fuels	1.30	1.03	0.89	0.85	0.66	0.60
Petroleum and Products	7.67	7.81	8.15	7.70	6.71	6.72
Gases	1.33	1.21	1.10	1.03	0.86	0.84
Biomass and Renewable Wastes	3.94	4.48	4.23	4.89	5.41	5.39
Solar				0.00	0.00	0.00
Geothermal						
Electricity	5.61	6.51	6.94	7.18	6.81	6.75
Derived heat	2.13	3.27	3.85	4.55	3.99	3.83
Wastes, Non-Renewable	0.00	0.02	0.03	0.04	0.06	0.05
by Sector						
Industry	9.86	12.20	11.88	11.34	10.70	10.70
Transport	4.18	4.28	4.65	4.84	4.76	4.79
Residential	5.44	4.49	5.02	5.81	5.07	4.90
Services	1.01	2.32	2.62	3.08	2.87	2.71
Agriculture and Fishing	0.76	0.77	0.75	0.81	0.75	0.72
Other	0.72	0.26	0.27	0.36	0.36	0.36

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	14.43	16.26	16.47	15.54	16.25	15.88
Combustible Fuels	9.34	10.70	10.68	9.46	9.61	8.85
Nuclear	2.31	2.64	2.67	2.72	2.75	2.75
Hydro	2.78	2.88	3.04	3.16	3.25	3.25
Wind	0.01	0.04	0.08	0.20	0.63	1.01
Solar PV	0.00	0.00	0.00	0.01	0.01	0.02
Geothermal						
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	64.04	69.98	70.58	80.67	68.09	68.60
Solid Fuels	16.62	12.45	11.00	20.83	11.33	8.21
Petroleum and Products	1.45	0.59	0.50	0.48	0.24	0.21
Gases	7.21	10.82	11.92	11.85	6.01	5.77
Nuclear	19.22	22.48	23.27	22.80	23.58	23.25
Renewables	19.55	23.38	23.47	24.20	26.27	30.53
Wastes, non-RES	0.00	0.07	0.18	0.21	0.38	0.39
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			5.83	6.17	6.01	5.8
CHP Electricity Generation (TWh)			27.46	29.24	23.04	21.7
CHP in Total Electricity Generation (%)			38.9%	36.2%	33.8%	31.7%
CHP Heat Production (PJ)			249.98	272.84	247.58	242.4
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	4127.2	4212.9	4569.0	4624.1	4188.3	4226.9
Motor Gasoline	2023.7	1748.0	1835.3	1531.3	1363.9	1359.8
Gas/Diesel Oil	1649.7	1942.7	2167.2	2433.2	2121.3	2155.4
Final Consumption Biofuels				140.2	497.7	496.9
Biogasoline				77.6	70.0	64.9
Biodiesel				62.6	427.7	432.0
Main Energy Indicators						
Energy Intensity (toe/M€'10)	237.9	205.0	192.1	198.3	186.4	177.2
Energy per Capita (kgoe/cap)	5758.9	6267.1	6588.8	6933.7	6378.1	6059.3
Final Electricity per Capita (KWh/cap)	12790.8	14635.6	15420.1	15603.3	14518.3	14340.2
Primary Energy Intensity (toe/M€'10)	228.8	198.4	185.6	191.8	179.9	170.8
Import Dependency (%)	53.6%	55.1%	54.1%	47.8%	48.9%	46.8%
of Solid Fuels	63.4%	68.9%	67.4%	57.5%	80.3%	61.2%
of Hard Coal	89.0%	97.7%	102.6%	85.5%	118.5%	89.9%
of Petroleum Fuels	94.6%	103.5%	98.4%	89.4%	94.8%	104.5%
of Crude and NGL	94.1%	101.5%	97.5%	101.1%	99.3%	104.1%
of Natural Gas	100.0%	100.0%	100.0%	100.0%	99.9%	99.7%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			28.8%	32.4%	38.7%	39.3%
RES-H&C – Heating and Cooling			39.1%	44.2%	51.9%	52.8%
RES-E – Electricity Generation			26.9%	27.7%	31.4%	32.5%
RES-T – Transport			0.9%	4.4%	22.0%	22.0%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	59.15	58.19	58.41	65.73	49.73	46.40
GHGs Emissions*	72.71	71.08	70.88	77.32	61.06	57.54
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	11601.0	11253.0	11153.5	12282.6	9122.8	8479.3
Carbon Intensity (kg CO ₂ /toe)	1992.0	1759.5	1668.7	1761.5	1426.4	1387.1
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	479.3	368.1	325.1	351.3	266.6	248.0

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.27 Sweden

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	31.38	30.05	34.26	32.76	34.31	33.81
Solid Fuels	0.22	0.16	0.21	0.24	0.13	0.11
of which Hard Coal						
Petroleum and Products	0.00	0.00	0.03	0.07	0.13	0.16
of which Crude and NGL	0.00					
Gases	0.04	0.04	0.04	0.02	0.01	0.01
of which Natural Gas						
Nuclear	18.04	14.79	18.67	14.92	16.74	14.54
Renewables	12.84	14.74	14.83	17.00	16.71	18.37
Wastes, Non-Renewable	0.24	0.32	0.48	0.52	0.59	0.62
Net Imports	20.43	20.44	19.46	19.29	15.99	14.24
Solid Fuels	2.75	2.41	2.56	2.55	1.99	1.95
of which Hard Coal	2.37	2.14	2.22	2.29	1.91	1.92
Petroleum and Products	17.07	16.85	16.70	15.10	13.94	12.68
of which Crude and NGL	19.22	21.97	19.49	19.62	18.61	19.95
Gases	0.76	0.78	0.84	1.47	0.79	0.72
of which Natural Gas	0.76	0.78	0.84	1.47	0.79	0.72
Renewables					0.61	0.83
Electricity	-0.14	0.40	-0.64	0.18	-1.34	-1.94
Gross Inland Consumption	51.47	48.90	50.99	50.78	48.21	45.47
Solid Fuels	2.88	2.45	2.63	2.49	2.10	2.12
of which Hard Coal	2.33	1.98	2.12	1.99	1.84	1.93
Petroleum and Products	16.82	15.38	14.14	14.20	12.00	10.22
of which Crude and NGL	19.36	21.83	19.40	19.81	18.71	19.82
Gases	0.80	0.82	0.89	1.48	0.80	0.73
of which Natural Gas	0.76	0.78	0.84	1.47	0.79	0.72
Nuclear	18.04	14.79	18.67	14.92	16.74	14.54
Renewables	12.84	14.74	14.83	17.00	17.32	19.19
Electricity	-0.15	0.40	-0.64	0.18	-1.34	-1.94
Wastes, Non-Renewable	0.24	0.32	0.48	0.52	0.59	0.62
Primary Energy Consumption	49.48	47.17	48.70	48.67	46.24	43.70
Available for Final Consumption	36.67	36.21	35.23	36.90	33.83	32.66
Final Non-Energy Consumption	1.99	1.73	2.29	2.11	1.97	1.77
Final Energy Consumption	35.05	34.97	33.66	34.08	31.19	31.76
by Fuel/Product						
Solid Fuels	1.19	1.11	1.35	1.20	1.03	1.04
Petroleum and Products	13.93	13.27	11.42	10.04	8.65	8.52
Gases	0.61	0.67	0.76	0.73	0.72	0.75
Biomass and Renewable Wastes	5.07	5.29	4.71	5.67	6.10	6.52
Solar	0.01	0.01	0.01	0.01	0.01	0.01
Geothermal						
Electricity	10.71	11.07	11.24	11.28	10.51	10.74
Derived heat	3.54	3.55	4.17	5.14	4.17	4.19
Wastes, Non-Renewable	0.00	0.00	0.00	0.00	0.00	0.00
by Sector						
Industry	13.82	14.27	12.63	12.21	11.24	11.53
Transport	7.79	8.19	8.61	8.60	8.52	8.67
Residential	7.74	7.30	7.31	8.04	7.02	7.20
Services	4.86	4.41	4.30	4.55	4.03	4.00
Agriculture and Fishing	0.84	0.76	0.80	0.68	0.38	0.37
Other	0.01	0.05	0.02	0.01		

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	33.63	33.72	33.39	36.45	38.74	39.71
Combustible Fuels	7.35	7.53	7.08	8.72	8.08	7.75
Nuclear	10.06	9.46	9.47	8.98	9.51	9.69
Hydro	16.15	16.53	16.35	16.73	16.00	16.33
Wind	0.07	0.21	0.49	2.02	5.10	5.84
Solar PV	0.00	0.00	0.00	0.01	0.06	0.10
Geothermal						
Tide, Wave and Ocean						
Other Sources						
Gross Electricity Generation (TWh)	148.35	145.27	158.44	148.56	153.66	162.06
Solid Fuels	2.45	1.71	1.17	1.77	0.59	0.57
Petroleum and Products	3.95	1.53	1.38	1.77	0.30	0.25
Gases	1.34	1.29	1.34	3.78	0.93	1.12
Nuclear	69.94	57.32	72.38	57.83	64.88	56.35
Renewables	70.61	83.18	81.30	82.20	85.85	102.57
Wastes, non-RES	0.07	0.24	0.87	1.21	1.13	1.20
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			3.49	5.10	5.01	4.9
CHP Electricity Generation (TWh)			10.67	18.53	12.12	13.7
CHP in Total Electricity Generation (%)			6.7%	12.5%	7.9%	8.4%
CHP Heat Production (PJ)			132.73	187.20	145.10	151.3
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	7550.3	7907.2	8216.7	7958.7	7377.1	7308.1
Motor Gasoline	4558.8	4265.0	4141.7	3320.2	2850.5	2568.4
Gas/Diesel Oil	2099.5	2671.3	3153.9	3652.9	3668.2	3847.6
Final Consumption Biofuels			134.4	376.3	788.3	1005.0
Biogasoline			127.4	202.3	165.1	133.1
Biodiesel			7.0	174.0	623.2	871.9
Main Energy Indicators						
Energy Intensity (toe/M€'10)	204.7	163.2	149.5	137.6	122.8	111.3
Energy per Capita (kgoe/cap)	5837.9	5518.1	5658.7	5436.8	4998.4	4665.2
Final Electricity per Capita (KWh/cap)	14128.9	14526.4	14503.6	14047.9	12669.0	12809.5
Primary Energy Intensity (toe/M€'10)	196.8	157.4	142.7	131.9	117.8	107.0
Import Dependency (%)	38.9%	40.7%	36.8%	36.6%	32.0%	30.1%
of Solid Fuels	95.4%	98.3%	97.2%	102.2%	94.7%	92.3%
of Hard Coal	101.6%	107.7%	104.3%	115.2%	103.9%	99.5%
of Petroleum Fuels	95.6%	100.8%	104.0%	93.6%	101.7%	105.4%
of Crude and NGL	99.3%	100.6%	100.4%	99.0%	99.4%	100.7%
of Natural Gas	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			40.6%	47.2%	52.5%	53.9%
RES-H&C – Heating and Cooling			51.9%	60.9%	68.0%	68.6%
RES-E – Electricity Generation			50.9%	56.0%	63.2%	65.8%
RES-T – Transport			6.2%	9.2%	21.1%	24.0%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	60.73	56.65	55.88	55.13	45.52	45.51
GHGs Emissions*	75.23	70.65	68.81	66.69	56.13	55.89
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	6888.3	6393.3	6201.1	5902.1	4719.7	4669.0
Carbon Intensity (kg CO ₂ /toe)	1156.6	1127.6	1056.1	1045.6	912.0	962.4
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	241.6	189.1	163.8	149.4	116.0	111.4

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

Methodology, Sources and Notes: See Appendix 13 – No 5

5.28 United Kingdom

Mtoe, unless otherwise stated	1995	2000	2005	2010	2014	2015
Production	256.46	268.55	204.60	148.77	108.16	118.27
Solid Fuels	32.07	18.66	12.07	10.84	6.92	5.12
of which Hard Coal	32.07	18.66	12.07	10.84	6.92	5.12
Petroleum and Products	135.72	127.94	87.94	64.26	40.92	46.48
of which Crude and NGL	134.40	127.81	87.62	64.26	40.89	46.48
Gases	63.72	97.55	79.40	51.47	33.15	35.66
of which Natural Gas	63.72	97.55	79.40	51.47	33.15	35.66
Nuclear	22.95	21.94	21.05	16.03	16.44	18.15
Renewables	1.84	2.26	3.49	5.71	9.86	11.84
Wastes, Non-Renewable	0.16	0.19	0.66	0.47	0.86	1.04
Net Imports	-36.83	-39.22	31.61	60.74	87.58	72.19
Solid Fuels	10.48	14.45	27.24	16.06	26.46	15.57
of which Hard Coal	10.26	14.43	26.71	16.33	25.90	14.88
Petroleum and Products	-49.35	-45.58	-2.74	10.68	29.83	26.33
of which Crude and NGL	-43.68	-41.82	-0.19	9.39	19.52	13.78
Gases	0.64	-9.31	5.97	32.20	26.99	25.60
of which Natural Gas	0.64	-9.31	5.97	32.20	26.99	25.60
Renewables			0.42	1.57	2.54	2.89
Electricity	1.40	1.22	0.72	0.23	1.77	1.80
Gross Inland Consumption	222.25	230.56	234.17	212.95	189.71	190.75
Solid Fuels	47.18	36.52	37.91	30.92	30.25	23.80
of which Hard Coal	47.09	36.60	37.48	31.33	29.83	23.07
Petroleum and Products	83.61	81.03	84.46	72.98	67.96	69.94
of which Crude and NGL	91.60	87.15	87.23	73.86	60.21	60.26
Gases	65.12	87.40	85.47	85.05	60.07	61.28
of which Natural Gas	65.12	87.40	85.47	85.05	60.07	61.28
Nuclear	22.95	21.94	21.05	16.03	16.44	18.15
Renewables	1.84	2.26	3.91	7.28	12.36	14.74
Electricity	1.40	1.22	0.72	0.23	1.76	1.80
Wastes, Non-Renewable	0.16	0.19	0.66	0.47	0.86	1.04
Primary Energy Consumption	209.76	219.23	222.81	205.04	183.05	183.04
Available for Final Consumption	157.11	163.83	164.16	151.59	136.74	139.19
Final Non-Energy Consumption	12.49	11.33	11.37	7.91	6.66	7.71
Final Energy Consumption	142.65	153.24	152.76	143.22	129.62	131.37
by Fuel/Product						
Solid Fuels	8.22	5.95	4.57	4.08	4.80	4.28
Petroleum and Products	61.02	63.67	65.85	59.53	57.23	58.02
Gases	47.14	52.18	50.38	47.17	36.69	37.97
Biomass and Renewable Wastes	0.86	0.57	0.55	2.77	3.49	3.72
Solar	0.01	0.01	0.03	0.04	0.05	0.05
Geothermal	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	25.34	28.36	30.00	28.29	26.06	26.04
Derived heat	0.00	2.44	1.27	1.27	1.16	1.15
Wastes, Non-Renewable	0.06	0.05	0.12	0.09	0.14	0.14
by Sector						
Industry	34.87	36.93	33.33	26.78	25.11	24.73
Transport	47.67	52.90	55.49	51.49	51.13	51.77
Residential	39.34	43.03	44.24	45.47	35.29	36.48
Services	16.32	16.86	16.75	17.48	16.07	16.28
Agriculture and Fishing	1.27	1.15	0.94	0.92	0.94	1.02
Other	3.18	2.37	2.01	1.09	1.09	1.09

	1995	2000	2005	2010	2014	2015
Installed Capacity (GW)	70.13	78.39	82.38	93.75	94.71	95.21
Combustible Fuels	52.94	61.22	64.66	73.00	61.84	57.74
Nuclear	12.76	12.49	11.85	10.87	9.94	9.49
Hydro	4.22	4.27	4.29	4.39	4.47	4.50
Wind	0.20	0.41	1.57	5.40	13.04	14.29
Solar PV		0.00	0.01	0.10	5.42	9.19
Geothermal						
Tide, Wave and Ocean		0.00		0.00	0.00	0.00
Other Sources						
Gross Electricity Generation (TWh)	334.04	377.07	398.36	381.77	338.18	339.10
Solid Fuels	153.84	119.95	134.64	107.69	100.23	75.63
Petroleum and Products	17.30	8.45	5.34	4.95	1.90	2.13
Gases	65.10	150.43	154.34	176.44	102.30	101.12
Nuclear	88.96	85.06	81.62	62.14	63.75	70.35
Renewables	8.42	12.66	19.87	28.97	67.47	86.29
Wastes, non-RES	0.41	0.52	2.56	1.59	2.53	3.58
Cogeneration Heat and Power						
CHP Electrical Capacity (GW)			5.44	6.10	6.32	5.9
CHP Electricity Generation (TWh)			27.24	23.64	20.32	19.4
CHP in Total Electricity Generation (%)			6.8%	6.2%	6.0%	5.7%
CHP Heat Production (PJ)			185.24	155.52	143.25	124.2
Transport Fuels (ktoe)						
Final Consumption Petroleum Products	46974.7	52154.0	55071.6	49963.4	49569.3	50439.3
Motor Gasoline	23542.8	23167.4	19975.2	15598.0	13185.1	12926.1
Gas/Diesel Oil	15321.6	17754.1	21497.1	22482.8	24490.6	25478.2
Final Consumption Biofuels			68.5	1150.7	1168.1	932.8
Biogasoline			42.7	321.0	413.9	404.3
Biodiesel			25.8	829.7	754.2	528.5
Main Energy Indicators						
Energy Intensity (toe/M€'10)	165.9	147.2	130.1	116.2	95.8	94.3
Energy per Capita (kgoe/cap)	3835.6	3922.1	3891.1	3406.6	2948.0	2940.2
Final Electricity per Capita (KWh/cap)	5086.4	5610.7	5797.0	5262.5	4708.8	4668.2
Primary Energy Intensity (toe/M€'10)	156.6	140.0	123.8	111.9	92.4	90.5
Import Dependency (%)	-16.4%	-16.9%	13.4%	28.2%	45.5%	37.4%
of Solid Fuels	22.2%	39.6%	71.9%	51.9%	87.5%	65.4%
of Hard Coal	21.8%	39.4%	71.3%	52.1%	86.8%	64.5%
of Petroleum Fuels	-57.4%	-54.9%	-3.2%	14.1%	42.1%	36.4%
of Crude and NGL	-47.7%	-48.0%	-0.2%	12.7%	32.4%	22.9%
of Natural Gas	1.0%	-10.7%	7.0%	37.9%	44.9%	41.8%
Renewables in Gross Final Energy (%)						
Overall RES with Aviation Cap			1.3%	3.7%	7.1%	8.2%
RES-H&C – Heating and Cooling			0.8%	2.7%	4.7%	5.5%
RES-E – Electricity Generation			4.1%	7.4%	17.9%	22.4%
RES-T – Transport			0.5%	3.3%	5.3%	4.4%
Gases Emissions (Mio ton CO₂)						
CO ₂ Emissions*	577.04	587.68	595.53	536.16	463.22	446.21
GHGs Emissions*	765.80	739.77	724.50	643.93	555.85	536.90
Main Emissions Indicators						
CO ₂ per Capita (kg CO ₂ /cap)	9958.6	9997.1	9895.6	8577.1	7198.3	6877.9
Carbon Intensity (kg CO ₂ /toe)	2568.2	2526.3	2521.4	2485.8	2406.1	2309.9
CO ₂ GDP Intensity (ton CO ₂ /M€'10)	430.8	375.2	330.9	292.5	233.9	220.5

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

Methodology, Sources and Notes: See Appendix 13 – No 5



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	ESTAT Partner Code	ESTAT – Energy Numeric Code
BE	Belgium	Belgique/België	1	BE	0012	09
BG	Bulgaria	Bulgaria*	2	BG	0068	82
CZ	Czech Republic	Česká republika	3	CZ	0061	22
DK	Denmark	Danmark	4	DK	0008	10
DE	Germany	Deutschland	5	DE	0004	04
EE	Estonia	Eesti	6	EE	0053	85
IE	Ireland	Éire/Ireland	7	IE	0007	12
EL	Greece	Elláda	8	GR	0009	11
ES	Spain	España	9	ES	0042	15
FR	France	France	10	FR	0001	06
HR	Croatia	Hrvatska	11	HR	0092	84
IT	Italy	Italia	12	IT	0005	07
CY	Cyprus	Kýpros	13	CY	0600	21
LV	Latvia	Latvija	14	LV	0055	24
LT	Lithuania	Lietuva	15	LT	0054	25
LU	Luxembourg	Luxembourg	16	LU	0022	13
HU	Hungary	Magyarország	17	HU	0064	23
MT	Malta	Malta	18	MT	0085	27
NL	Netherlands	Nederland	19	NL	0003	08
AT	Austria	Österreich	20	AT	0038	16
PL	Poland	Polska	21	PL	0060	87
PT	Portugal	Portugal	22	PT	0040	14
RO	Romania	România	23	RO	0066	83
SI	Slovenia	Slovenija	24	SI	0091	86
SK	Slovakia	Slovensko	25	SK	0063	26
FI	Finland	Suomi/Finland	26	FI	0032	18
SE	Sweden	Sverige	27	SE	0030	17
UK	United Kingdom	United Kingdom	28	GB	0006	05

* Latin transliterated.

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

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

ISO 3166 Country Codes Maintenance Agency: http://www.iso.org/iso/country_codes/iso_3166_code_lists.htm

Appendix 2 – Main Indicators – EN

ESTAT Energy Database – EN	
Indicator	Code
B_100100	Primary production
B_100200	Recovered products
B_100300	Imports
B_100400	Stock changes
B_100500	Exports
B_100600	Net imports
B_101700	Final energy consumption
B_100800	Bunkers
B_100900	Gross inland consumption
B_101000	Transformation input
B_101100	Transformation output
B_101200	Exchanges, transfers, returns
B_101300	Consumption in energy sector
B_101400	Distribution losses
B_101500	Energy available for final consumption
B_101700	Final energy consumption
B_101800	Final energy consumption – industry
B_101805	Iron and steel
B_101810	Non-ferrous metals
B_101815	Chemical and petrochemical
B_101820	Non-metallic minerals
B_101825	Mining and quarrying
B_101830	Food and tobacco
B_101835	Textile and leather
B_101840	Paper, pulp and print
B_101851	Wood and wood products
B_101852	Construction
B_101900	Final energy consumption – transport
B_101910	Final energy consumption – rail transport
B_101920	Final energy consumption – road transport
B_101930	Final energy consumption – air transport
B_101940	Final energy consumption – inland navigation
B_102000	Final energy consumption – Residential, commerce, etc.
B_102010	Residential
B_102030	Final energy consumption – agriculture
B_102035	Final energy consumption – services
B_102020	Final energy consumption – fisheries
B_102040	Final energy consumption – other sectors
B_102200	Statistical difference

Appendix 3 – Main Indicators – DE

ESTAT Energy Database – DE

Indicator	Code
B_100100	Primärerzeugung
B_100200	Wiedergewinnung
B_100300	Gesamteinfuhren
B_100400	Bestandsveränderungen
B_100500	Gesamtausfuhren
B_100600	Nettoeinfuhren
B_101700	Energetischer Endverbrauch
B_100800	Bunker
B_100900	Bruttoinlandsverbrauch
B_101000	Umwandlungseinsatz
B_101100	Umwandlungsausstoß
B_101200	Austausch, Übertragung, Rückläufe
B_101300	Verbrauch des Produktionsbereichs Energie
B_101400	Netzverluste
B_101500	Für den Endverbrauch zur Verfügung stehende Energie
B_101700	Energetischer Endverbrauch
B_101800	Energetischer Endverbrauch der Industrie
B_101805	Energetischer Endverbrauch der Stahlindustrie
B_101810	Energetischer Endverbrauch der NE-Metallindustrie
B_101815	Energetischer Endverbrauch der chemischen Industrie
B_101820	Energetischer Endverbrauch der Nichtmetallische Mineralstoffe verarbeitenden Industrie
B_101825	Energetischer Endverbrauch der Erzgewinnungsindustrie (mit Ausnahme der Brenn- und Kraftstoffgewinnung)
B_101830	Energetischer Endverbrauch der Nahrungs- und Genussmittelindustrie
B_101835	Energetischer Endverbrauch der Textil-, Lederwaren- und Bekleidungsindustrie
B_101840	Energetischer Endverbrauch der Papier- und Druckindustrie
B_101851	Energetischer Endverbrauch der Holz
B_101852	Energetischer Endverbrauch – Baugewerbe
B_101900	Energetischer Endverbrauch im Verkehrssektor
B_101910	Energetischer Endverbrauch des Bahnverkehrs
B_101920	Energetischer Endverbrauch des Strassenverkehrs
B_101930	Energetischer Endverbrauch des Luftverkehrs
B_101940	Energetischer Endverbrauch der Binnenschifffahrt
B_102000	Energetischer Endverbrauch der Privathaushalte, des Handels usw..
B_102010	Energetischer Endverbrauch der Privathaushalte
B_102030	Energetischer Endverbrauch der Landwirtschaft
B_102035	Energetischer Endverbrauch des Dienstleistungssektors
B_102020	Energetischer Endverbrauch des Fischereisektors
B_102040	Energetischer Endverbrauch anderer Sektoren
B_102200	Statistische Differenz

Appendix 4 – Main Indicators – FR

ESTAT Energy Database – FR	
Indicator	Code
B_100100	Production primaire
B_100200	Récupération
B_100300	Importations totales
B_100400	Variations de stocks
B_100500	Exportations totales
B_100600	Importations nettes
B_101700	Consommation finale énergétique
B_100800	Soutes maritimes
B_100900	Consommation intérieure brute
B_101000	Entrées en transformation
B_101100	Sorties de transformation
B_101200	Échanges, transferts, restitutions
B_101300	Consommation de la branche énergie
B_101400	Pertes sur les réseaux
B_101500	Disponible pour la consommation finale
B_101700	Consommation finale énergétique
B_101800	Consommation finale énergétique – industrie
B_101805	Consommation finale énergétique – sidérurgie
B_101810	Consommation finale énergétique – métaux non ferreux
B_101815	Consommation finale énergétique – chimie et pétrochimie
B_101820	Consommation finale énergétique – minéraux non métalliques
B_101825	Consommation finale énergétique – extraction
B_101830	Consommation finale énergétique – aliments, boissons
B_101835	Consommation finale énergétique – textile, cuir, habillement
B_101840	Consommation finale énergétique – papier, carton, imprimerie
B_101851	Consommation finale énergétique – bois
B_101852	Consommation finale énergétique – construction
B_101900	Consommation finale énergétique – transports
B_101910	Consommation finale énergétique – transports ferroviaires
B_101920	Consommation finale énergétique – transports routiers
B_101930	Consommation finale énergétique – transports aériens
B_101940	Consommation finale énergétique – navigation intérieure
B_102000	Consommation finale énergétique – foyers, etc.
B_102010	Consommation finale énergétique – ménages
B_102030	Consommation finale énergétique – agriculture
B_102035	Consommation finale énergétique – services
B_102020	Consommation finale énergétique – pêche
B_102040	Consommation finale énergétique – autres
B_102200	Écart statistique

Appendix 5 – Main Products – EN

ESTAT Energy Database – EN

Indicator	Code
0000	All products
2000	Solid fuels
2100	Hard coal and derivatives
2111	Hard coal
2112	Patent fuels
2120	Coke
2200	Lignite and derivatives
3000	Total petroleum and products
3100	Crude oil and feedstocks
3105	Crude oil
3110	Crude oil and NGL
3190	Feedstocks
3200	All petroleum product
3220	LPG
3230	Motor spirit
3234	Motor gasoline, unleaded motor spirit
3240	Kerosenes – jet fuels
3250	Naphtha
3260	Gas/diesel oil
3270A	Residual fuel oil
4000	Gas
4100	Natural gas
4200	Derived gas
5100	Nuclear power
5200	Derived heat
5500	Renewable energies
5510	Hydro power
5520	Wind energy
5530	Solar energy
5535	Tide/wave/ocean energy
5540	Biomass and wastes
5541	Wood and wood waste
5542	Biogas
55431	Municipal solid wastes – RES
5545	Biofuels
5546	Biogasoline
5547	Biodiesel
5550	Geothermal energy
6000	Electrical energy
7100	Industrial waste

Appendix 6 – Main Products – DE

ESTAT Energy Database – DE	
Indicator	Code
0000	Alle produkte
2000	Feste Brennstoffe
2100	Steinkohle und Nebenprodukte
2111	Steinkohle
2112	Steinkohlebriketts
2120	Koks
2200	Braunkohle und Nebenprodukte
3000	Rohöl und Mineralölerzeugnisse
3100	Rohöl und Feedstocks
3105	Rohöl
3110	Rohöl und Erdgaskondensate
3190	Feedstocks
3200	Alle Mineralölerzeugnisse
3220	Flüssiggas
3230	Motorenbenzin
3234	Unverbleites Benzin
3240	Petroleum und Flugturbinenkraftstoffe
3250	Rohbenzin
3260	Dieselmotorkraftstoffe und Destillattheizöle
3270A	Rückstandsheizöle
4000	Gas
4100	Naturgas
4200	Abgeleitete Gase
4100	Kernenergie
5200	Abgeleitete Wärme
5500	Erneuerbare Energien
5510	Wasserkraftenergie
5520	Windenergie
5530	Sonnenenergie
5535	Gezeiten-/Wellen-/Meeresenergie
5540	Biomasse und Abfälle
5541	Holz und Holzabfälle
5542	Biogas
55431	Hausmüll Erneuerbare
5545	Biotreibstoff
5546	Biobenzin
5547	Biodiesel
5550	Geothermische Energie
6000	Elektrizität
7100	Industrieabfälle

Appendix 7 – Main Products – FR

ESTAT Energy Database – FR

Indicator	Code
0000	Tous produits
2000	Combustibles solides
2100	Houille et dérivés solides
2111	Houille
2112	Agglomérés de houille
2120	Coke
2200	Lignite et dérivés
3000	Pétrole brut et produits pétroliers
3100	Pétrole brut et feedstocks
3105	Pétrole brut
3110	Pétrole brut et liquides de gaz naturel
3190	Feedstocks
3200	Tous produits pétroliers
3220	GPL
3230	Essences moteurs
3234	Essences sans plomb
3240	Pétrole lampant et carburateurs
3250	Naphta
3260	Gasoil et fuel oil fluide
3270A	Fuel oil résiduel
4000	Gaz
4100	Gaz naturel
4200	Gaz dérivés
5100	Énergie nucléaire
5200	Chaleur dérivée
5500	Énergies renouvelables
5510	Hydro-électricité
5520	Énergie éolienne
5530	Énergie solaire
5535	Énergie hydrocinétique/houlomotrice/marémotrice
5540	Biomasse/déchets
5541	Bois – déchets de bois
5542	Biogaz
55431	Déchets urbains solides renouvelables
5545	Biocarburants
5546	Bioessence
5547	Biodiesel
5550	Énergie géothermique
6000	Énergie électrique
7100	Déchets industriels

Appendix 8 – 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
kgoe	kilogram of oil equivalent
ktoe	kiloton of oil equivalent
kton	kiloton
kWh	kilowatt hour
LPG	liquefied petroleum gas
M€ '2010	millions of euro, chain-linked volumes, reference year 2010, at 2010 exchange rates
m ³	cubic meter
Mio	million
MS	European Union Member State
MSW	municipal solid waste
Mtoe	million ton of oil equivalent
MW	megawatt
MWh	megawatt hour
NCV	net calorific value
NGL	natural gas liquid
p/cap	per capita
PJ	petajoule
PV	photovoltaic
RES	renewable energy
RES-E	renewable energy – electricity generation
RES-H&C	renewable energy – heating and cooling
RES-T	renewable energy – transport
SI Units	International System of Units
TJ	terajoule
toe	ton of oil equivalent
ton	metric ton, metric tonne, mt
TPES	Total Primary Energy Supply
TWh	terawatt hour
UNFCCC	United Nations Framework Convention on Climate Change
VAT	value added tax

Appendix 9 – SI Units – Prefixes

Standard Prefixes for the SI Units of Measure

Multiple		Sub-Multiple	
10^1	deca (da)	10^{-1}	deci (d)
10^2	hecto (h)	10^{-2}	centi (c)
10^3	kilo (k)	10^{-3}	milli (m)
10^6	mega (M)	10^{-6}	micro (μ)
10^9	giga (G)	10^{-9}	nano (n)
10^{12}	tera (T)	10^{-12}	pico (p)
10^{15}	peta (P)	10^{-15}	femto (f)
10^{18}	exa (E)	10^{-18}	atto (a)
10^{21}	zetta (Z)	10^{-21}	zepto (z)
10^{24}	yotta (Y)	10^{-24}	yocto (y)

Appendix 10 – Conversion Factors

ENERGY

		TO:			
		TJ	Gcal	Mtoe	GWh
		Multiply by			
FROM:		1	238.8	2.388×10^{-5}	0.2778
	Terajoule (TJ)				
	Gigacalorie (Gcal)	4.1868×10^{-3}	1	1×10^{-7}	1.163×10^{-3}
	Million ton of oil equivalent (Mtoe)	4.1868×10^4	1×10^7	1	11630
	Gigawatt-hour GWh	3.6	860	8.6×10^{-5}	1

VOLUME

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

MASS

		TO:		
		t	lt	st
		Multiply by		
FROM:		1	0.9842	1.1023
	Ton, Tonne (t)			
	Long ton (lt) UK	1.0160	1	1.1200
	Short ton (st) US	0.9072	0.8929	1

Appendix 11 – Average Calorific Values

Energy Content			
		kJ (NCV)	kgoe (NCV)
Hard Coal	1 kg	17 200 – 30 700	0.411 – 0.733
Recovered Hard Coal	1 kg	13 800 – 28 300	0.330 – 0.676
Patent Fuels	1 kg	26 800 – 31 400	0.640 – 0.750
Hard Coke	1 kg	28 500	0.681
Brown Coal	1 kg	5 600 – 10 500	0.134 – 0.251
Black Lignite	1 kg	10 500 – 21 000	0.251 – 0.502
Peat	1 kg	7 800 – 13 800	0.186 – 0.330
Brown Coal Briquettes	1 kg	20 000	0.478
Tar	1 kg	37 700	0.900
Benzol	1 kg	39 500	0.943
Oil Equivalent	1 kg	41 868	1
Crude Oil	1 kg	41 600 – 42 800	0.994 – 1.022
Feedstocks	1 kg	42 500	1.015
Refinery Gas	1 kg	50 000	1.194
LPG	1 kg	46 000	1.099
Motor Spirit	1 kg	44 000	1.051
Kerosenes, Jet Fuel	1 kg	43 000	1.027
Naphtha	1 kg	44 000	1.051
Gas Diesel Oil	1 kg	42 300	1.010
Residual Fuel Oil	1 kg	40 000	0.955
White Spirit	1 kg	44 000	1.051
Lubricants	1 kg	42 300	1.010
Bitumen	1 kg	37 700	0.900
Petroleum Cokes	1 kg	31 400	0.750
Other Petro. Products	1 kg	30 000	0.717
Electrical Energy	1 kWh	3 600	0.086

Appendix Glossary

Appendix 12 – Glossary

In parenthesis EUROSTAT Energy database/EUROBASE, (Energy section) codes for products (p:) and indicators (B_), as of May 2017.

ALL FUELS

The code 'all fuels', (p: 0000), covers all energy products. These consist of hard coal and derivatives, lignite and derivatives, peat and derivatives, oil shale and oil sands, petroleum (crude oil) and petroleum products (such as LPG, refinery gas, motor spirit, kerosene, gas/diesel oil, residual fuel oil), natural gas, manufactured gases, derived heat, renewable energies (such as hydro power, wind energy, biomass, wastes, geothermal energy), electrical energy and nuclear power.

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 THERMAL POWER STATIONS

Autoproducer thermal power stations are defined as undertakings which generate electricity wholly or partly for their own use as an activity which supports their primary activity.

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: gross inland consumption (B_100900) + transformation output (B_101100) - transformation input (B_101000) + exchanges, transfers, returns (B_101200) - consumption of the energy sector (B_101300) - distribution losses (B_101400).

BIOFUELS

Liquid or gaseous fuels used primarily for transport, produced from biomass, and wastes (p:5545). Liquid biofuels cover bioethanol (ethanol produced from biomass), biodiesel (diesel produced from biomass or used fried oil), bio methanol, bio-dimethylether and bio-oil (a pyrolysis oil fuel produced from biomass).

The code biofuels (p:5545), groups biogasoline (p:5546), biodiesel (p:5547), bio jet kerosene (p:5549) and other liquid biofuels (p:5548).

BIOMASS AND RES WASTES

Biomass and RES wastes (p: 5540), covers organic, non-fossil material of biological origin, which may be used for heat production or electricity generation. They comprise wood and wood waste (p: 5541), biogas (p: 5542), municipal RES solid waste (p:55431), charcoal (p:5544) and biofuels (p: 5545). The non-renewable part of municipal waste (p: 55432) and the industrial waste (p:7100) are included in Wastes non-RES (p:7200).

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 24 hours per day during a year. It is equal to the total annual energy production, divided by the cumulative capacity converted to average statistical year base.

CARBON ENERGY INTENSITY

This is the average emission rate of CO₂ relative to the intensity of the energy activity. It is calculated, in the tables, in kg CO₂ emissions per ton of oil equivalent of energy used.

CARBON GDP INTENSITY

This represents the average emission rate of CO₂ emissions of an economy relative to its GDP.

CHP – COMBINED HEAT AND POWER

A combined heat and power unit is an installation in which energy released from fuel combustion is partly used for generating electrical energy and partly for supplying heat for various purposes.

The definition of Combined Heat and Power (CHP) or 'cogeneration' implies that heat and electricity are produced simultaneously in one process.

CO₂ ENERGY INTENSITY

Vide Carbon Energy Intensity.

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 level.

ENERGY AVAILABLE FOR FINAL CONSUMPTION

Energy available for final consumption, (B_101500), covers the energy placed at the disposal of final users. This code is calculated as follows: gross inland consumption + transformation output - transformation input + exchanges, transfers, returns - consumption of the energy sector - distribution losses. It includes final non energy consumption, (B_101600).

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: $\text{net imports (B_100300 - B_100500)} / (\text{gross inland consumption (B_100900) + bunkers (B_100800)})$.

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 inland consumption of energy (B_100900), to gross domestic product.

ENERGY MIX

The energy mix is the proportion of different sources in energy production, supply side, at gross inland consumption level.

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.

FINAL ENERGY CONSUMPTION (FEC)

Final energy consumption covers energy supplied to the final consumer's door for all energy uses, (B_101700). It excludes deliveries to the energy transformation sector (B_101000...) and to the energy industries themselves (B_101300...). It is the sum of final energy consumption by industry (B_101800), transport (B_101900), household (B_102010), services (B_102035), agriculture/forestry (B_102030), fishing (B_102020) and other unspecified (B_102040).

FINAL ENERGY CONSUMPTION – TRANSPORT

Final energy consumption – transport, (B_101900), covers the consumption in all types of transportation, i.e., rail, road, air transport and inland navigation.

FINAL NON-ENERGY CONSUMPTION (FNEC)

Final non-energy consumption covers the use of energy products for non-energy purposes (B_101600). It is the sum of final non-energy consumption in the chemical industry, (B_101601) and in non-chemical industries (B_101602).

GASES, GASEOUS FUELS

Gases covers fossil natural gas and derived gases, coke oven gas (p:4210), blast furnace gas (p:4220), gas work gas (p:4230), and oxygen steel furnace gas (p:4240). Gases (p:4000) is the sum of natural gas (p:4100) and derived gases (p:4200).

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 2010, in millions of euro, chain-linked volumes, at 2010 exchange rates.

GHG – GREEN HOUSES GASES

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

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 CONSUMPTION OF ENERGY

Gross final consumption of energy means the energy commodities delivered for energy purposes, including the consumption of electricity and heat, by the energy branch for electricity and heat production including losses of electricity and heat in distribution. It excludes the final non energy use (FNEC).

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 (GIC)

Gross inland consumption represents the quantity of energy necessary to satisfy inland consumption of the geographical entity under consideration, (B_100900). It is calculated using the following formula: indigenous production (B_100100) + primary product receipts (B_100110)+ recovered products from other sources (B_100200)+ recycled products (B_100210) + imports (B_100300) + stock changes (B_100400) - exports (B_100500) - international marine bunkers (B_100800).

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 residential 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 .

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 (B_100300) and exports (B_100500).

NET ELECTRICITY GENERATION

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

PETROLEUM AND PRODUCTS

Petroleum and (petroleum) sub-products include crude oil (p: 3105), natural gas liquids (p:3106), feedstocks (p:3190) and all petroleum sub-products such as LPG (p:3220), refinery gas (p:3210), motor gasoline (p:3234) aviation gasoline (p:3235), kerosene and jet fuels (p:3240), naphtha (p:3250), gas/diesel oil (p:3260), residual fuel oil (p:3270A), white spirit, lubricants, bitumen, petroleum coke (p:3280) and other petroleum products (p:3295). Petroleum and petroleum products (p:3000) is the sum of Crude oil, NGL, feedstocks, and other hydrocarbon (p:3100) and all petroleum sub-products (p:3200).

PRIMARY ENERGY CONSUMPTION

Primary energy corresponds to the gross inland consumption minus the energy included in the final non-energy consumption.

PRIMARY ENERGY INTENSITY

Primary energy intensity gives an indication of the effectiveness with which primary energy consumption produces added value. It is defined as the ratio of primary energy consumption to gross domestic product.

PRIMARY ENERGY PRODUCTION – INDIGENOUS PRODUCTION

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 (B_100100).

The precise definition depends on the fuel involved:

> SOLID FOSSIL FUELS: HARD COAL, LIGNITE, PEAT...

Quantities of fuels extracted or produced, calculated after any operation for removal of inert matter. In general, 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.

> LIQUID FOSSIL FUELS: PETROLEUM AND PETROLEUM SUB PRODUCTS

Quantities of fuels extracted or produced within national boundaries, including off-shore production. Production includes only marketable production, and excludes any quantities returned to formation. Production includes all crude oil, natural gas liquids (NGL), condensates and oil from shale and tar sands, etc.

> GAS FOSSIL FUELS: NATURAL GAS AND DERIVED GAS

Quantities of dry gas, measured after purification and extraction of natural gas liquids and sulphur. The production includes only marketable production, and excludes any quantities re-injected, vented and flared, and any extraction losses. The production includes all quantities used within the natural gas industry, in gas extraction, pipeline systems and processing plants.

> NUCLEAR HEAT

Quantities of heat produced in a reactor. 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.

> RENEWABLE ENERGY

- > Hydropower, Wind energy, Solar thermal, Solar photovoltaic energy...
Quantities of electricity generated. Production is calculated on the basis of the gross electricity generated and a conversion factor of 3600 kJ/kWh.
- > Geothermal energy
Quantities of heat extracted from geothermal fluids. 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.
- > Biomass/Wastes
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 biofuels, the production is the heat content (NCV) of the fuel. In the case of biofuels, 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.

RENEWABLE ENERGY SOURCES (RES)

Vide Primary Energy Production.

PUBLIC SUPPLY THERMAL POWER STATIONS

Are defined as undertakings which generate electricity (and heat) for sale to third parties as their primary activity. They may be privately or publicly owned.

SOLAR ENERGY

Solar radiation exploited for hot water production - solar thermal (p:5532) and electricity generation – solar photovoltaic (p:5534). This energy production (p:5530), is the heat available to the heat transfer medium, i.e. the incident solar energy less the optical and collectors' losses.

SOLID FUELS

Solid fuels cover solid fossil fuels such as hard coal (p: 2111), coal patent fuels (p: 2112), coke (p: 2120), coal tar (p: 2130), lignite (p: 2210), brown-coal briquettes and peat briquettes (p: 2230) and peat (p: 2310). Solid fuels (p: 2000) is the sum of the codes hard coal and derivatives (p: 2100) and lignite and derivatives (p: 2200).

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.

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.

TPES

Total primary energy supply, an IEA definition, represents the quantity of energy necessary to satisfy inland consumption of the geographical entity under consideration. It corresponds to EUROSTAT gross inland consumption. It is equal to the indigenous production + imports - exports - international marine bunkers +/- stock changes.

TRANSFORMATION INPUT

Covers all inputs into the transformation plants destined to be converted into derived products, (B_101000). Transformation is only recorded when the energy products are physically or chemically modified to produce other energy products, electricity and/or heat. It is the sum of the Input to conventional thermal power stations (B_101001), Input to nuclear power stations (B_101002), Input to patent fuel and briquetting plants (B_101003), Input to coke-oven plants (B_101004), Input to blast furnace plants (B_101006), Input to gas-works (B_101007), Input to refineries (B_101008), Input to district heating plants and (B_101009).

TRANSFORMATION OUTPUT

It is the result of the transformation process of energy, (B_101100). This output covers derived products, namely: patent fuel, coke, brown-coal and peat briquettes, pitch, tar, benzol, refined petroleum products, derived gases, electricity from conventional thermal and nuclear power stations and derived heat. Transformation output refers always to gross production of derived products, i.e. the own consumption of the transformation plants is included. It is the sum of the Output from conventional thermal power stations (B_101101), Output from nuclear power stations (B_101102), Output from patent fuel and briquetting plants (B_101103), Output from coke-oven plants (B_101104), Output from blast furnace plants (B_101106), Output from gas-works (B_101107), Output from refineries (B_101108) and Output from district heating plants (B_101109).

TRANSFORMATION LOSSES

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

TURNOVER

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

UNEMPLOYMENT RATE

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

Appendix Notes

Appendix 13 – Notes

APPENDIX 13.1

1.1.1, 1.1.2 PAGES 10, 11

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

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

Solid fuels, includes hard coal, lignite and peat, as well as derived fuels. Petroleum and (petroleum) sub-products comprises crude oil, NGL, feed-stock, additives as well as other hydrocarbons.

RES (renewables) is equal to the sum of hydro, geothermal, solar PV, solar thermal, tide, wind, municipal waste, primary solid biofuels, biogases, bio gasoline, biodiesel, other liquid biofuels, non-specified biofuels and charcoal energy. Industrial waste not included.

1.1.3, 1.1.4, PAGES 12, 13

Gross inland consumption, 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. Autoproducers heat, used by the undertaking for their own processes, is excluded.

1.1.10, PAGE 19

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

1.2.5, PAGE 25

Natural gas, crude oil and solid fuels (p:4100, p:3105 and p:2000).

1.3.1, PAGE 27

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

APPENDIX 13.2

2.1.1, PAGES 35-37

Production comprises primary production and products recovered from other sources, (B_100100 + B_100110+ B_100200+ B_100210).

2.1.2, PAGES 38-40

Net imports correspond to the total imports minus the total exports, (B_100300 – B_100500).

2.1.3, PAGES 41-44

Gross inland consumption represents the quantity of energy necessary to satisfy inland consumption of the geographical entity under consideration, (B_100900).

2.2.1, PAGES 45-49

Solid fuels, (p:2000), cover solid fossil fuels such as hard coal, coal patent fuels, coke, coal tar, lignite, brown-coal briquettes, peat briquettes, peat and oil sands. Hard coal, (p:2111), comprises, only, coking coal and steam coal.

2.2.2, PAGES 50-54

Total Petroleum and sub-petroleum products, (p:3000), include crude oil (p: 3105), natural gas liquids (p:3106), feedstock (p:3190) and all petroleum sub-products. Crude oil and NGL (p:3110) is a subgroup containing only crude oil (p: 3105) and natural gas liquids (p:3106) codes.

2.2.3, PAGES 55-58

Gases, (p:4000), include natural gas (p:4100) and derived gases (p:4200).

2.2.5, PAGES 63-65

For products see former points 2.2.1 to 2.2.3.

2.3, PAGES 66-72

See, glossary energy import dependency, appendix 12.

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

2.5.1, PAGE 79

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

2.5.2, PAGES 80-83

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

2.5.3, PAGE 84

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

2.5.4, PAGE 85

Primary energy intensity corresponds to the gross inland consumption minus the energy included in the final non-energy consumption, (B_100900-B_101600).

2.6.1, PAGES 86-88

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

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

2.6.2, PAGES 89-93

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

2.7.1, PAGES 95-96

The share of the solar and wind energy is measured against to total installed capacity, all sources.

2.7.2-2.7.8, PAGES 97-105

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

2.7.3, 2.7.4, PAGES 100-101

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

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

2.7.8, PAGE 105

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

2.8, PAGES 106-108

The data collection for CHP generation is not based in the annual Heat survey, but instead in a specific survey in accordance with the Community Directive 2004/8/EC.

Differences can appear between the two datasets, especially due to the more restrictive methodology employed in the CHP Directive.

While the Directive includes the production of all heat, sold to third parties, under the Directive approach only heat/electricity obeying high-efficiency criteria, is considered. However own heat used by the undertaking for its own processes, is here included.

2.9, PAGES 109-111

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

2.10, PAGES 112-114

The tables include the total final energy consumption of petroleum products, and two of its main products: motor gasoline (p:3234), and gas diesel (p:3260), and the total final energy consumption of biofuels (p:5545), and its two main products: biogasoline (p:5546) and biodiesel (p:5547).

2.11.1, PAGE 115

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

2.11.4, PAGE 118

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

2.13, PAGES 123-129

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

PETROLEUM PRODUCTS

Heating gasoil, low sulphur fuel oil, unleaded petrol and automotive diesel prices are supplied to Energy DG by the Member States as those being the most frequently encountered for the specific categories of sales. The prices given 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 13.3

3.1.1, PAGE 134

Energy activities sector in its broad and narrow definition (sector d35), as defined by EUROSTAT/NACE and UN/SIC nomenclatures.

3.2, PAGES 135-137

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

3.3, PAGES 138-149

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

3.4, PAGES 150-154

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

APPENDIX 13.4

4.1.1, PAGES 158-162

GHG, greenhouse gases, are gases that contribute to the natural greenhouse effect. GHG emissions aggregate includes Fuel combustion emissions and other non-fuel linked emissions (Industrial processes, agriculture, etc.). Fuel combustion emissions include combustion in Energy industries, Manufacturing Industries and construction, Transport, Commercial and Institutional, Residential, Agriculture, Forestry/Fisheries and other combustion and fugitive emissions.

4.1.2 PAGES 163-167

Structure of emissions similar to the GHG emissions.

4.2.2 PAGE 169

Carbon GDP intensity is the average emission rate of CO₂ relative to the total intensity of the economic activity, measured by its GDP.

APPENDIX 13.5

For products see appendices 5-7 and glossary appendix 12. For indicators see appendices 2-4 and glossary appendix 12. For units see appendices 8-11.

Notes

A series of horizontal dotted lines for taking notes.

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