



National Statistics Office of Georgia

ENERGY BALANCE OF GEORGIA 2017

STATISTICAL PUBLICATION





NATIONAL STATISTICS OFFICE OF GEORGIA

ENERGY BALANCE OF GEORGIA

Statistical Publication

Tbilisi 2017

Statistical Publication

ENERGY BALANCE OF GEORGIA, 2016

Editor

Gogita Todradze

Persons responsible for the publication

Gogita Todradze

Giorgi Sanadze

The following persons worked on the publication:

Giorgi Sanadze

Marine Gogoladze

Khatuna Mokia

Maka Kintsurashvili

Lela Nonikashvili

Gaga Gelashvili

© National Statistics Office of Georgia, 2017

30, Tsothe Dadiani str, Tbilisi 0180

Tel.: (+995 32) 36 72 10 (200)

Fax: (+995 32) 36 72 13

E-mail: gsanadze@geostat.ge

info@geostat.ge

www.geostat.ge

Contents

Foreword	5
Survey program.....	6
I. Key indicators about Georgia	
1.1 Main facts about Georgia	7
1.2 Key economic indicators about Georgia	7
1.3 Hydro and Thermal Power Plants operating in Georgia	8
1.4 Small Hydro Power Plants operating in Georgia	9
II. Energy Balance of Georgia	
2.1 Aggregated energy balance of Georgia.....	10
2.2 Electricity and heat.....	18
2.3 Natural gas	25
2.4 Coal	32
2.5 Oil and oil products	36
2.6 Biofuel and waste	46

Symbols and abbreviations

0,0 Negligible magnitude

- Not applicable

. . . Data not available

The discrepancy between the totals and the sum in some cases can be explained by using rounded data.

Foreword

The need for production of energy balance is linked to such important issues of global policy, as climate change and energy security. The publication includes statistical data for 2016 year.

Energy balance leads to the development of a wide range of growing interest of users, as it is the best way to represent the local or global policy planning.

2016 Energy Balance, like the previous years' balances, is based on the recommendations drawn up by the International Energy Agency and fully complies with international standards.

The publication is based on the declared data of various surveys conducted by the National Statistics Office during 2017. Different types of administrative data as well as expert assessments have been used in order to create the energy balance.

Business remarks and proposals on format and contents of this publication will be perceived by the authors group with gratitude.

The publication is designed for various groups of users.

National Statistics Office of Georgia

Survey Program

In order to collect data from the energy sector, producers, suppliers, distributors and traders of energy forms (coal, natural gas, electricity, oil and oil products) were surveyed at full coverage as a result of specially organized statistical surveys.

In order to collect the information about consumption of energy forms, in comparison of survey for 2014 year (when the survey covered all kind of institutional sectors: non-financial corporations, financial corporations, non-profit institutions serving households, households and public administration), the survey for 2017 year covered only households and non-financial corporations. Only enterprises from agriculture, industry, construction and transport sectors were investigated from non-financial corporations and for formation of data from other sectors (service sector) expert assessment method was used.

In the household sector the data were collected by face-to-face interviewing method, while in other sectors data collection was primarily carried out by means of online questionnaire, however the respondents were able to use other alternative means (paper questionnaire, electronic questionnaire in excel format, fax, etc.).

Various types of administrative data were used to complete energy balance in addition to the above-mentioned surveys. In certain cases expert assessments were carried out as well.

I. Key indicators about Georgia

1.1 Main facts about Georgia

Area	69 700 km ²
Length of state borders	2 148 km
Land borders	1 839 km
The highest mountain	„Shkhara” – 5200 m
Population	3 718.2 thousand persons (01.01.2017)
Density	65.0/km ² ¹
Capital	Tbilisi
Official languages	Georgian
Currency	Georgian lari (GEL)

1.2 Key economic indicators about Georgia, 2016

Indicators	2016
GDP at current prices, mil. GEL	34028.5
GDP at constant 2010 prices, mil. GEL	27072.4
DGP real growth, %	2.8
GDP per capita (at current prices), USD	3864.6
Unemployment rate, percentage	11.8
CPI (Inflation), Annual Average to the Annual Average	102.1
Foreign Direct Investments, Mil. USD	1583.8
External Trade (FOB), Mil. USD	2113.0
Import (CIF), Mil. USD	7295.0

¹ The controlled area is in use - 57 178.7 km²

1.3 Hydro and Thermal Power Plants operating in Georgia, 2016

	Name	Installed capacity (MW)
Hydro Electricity Plants		
1	Engurhesi	1 300
2	Vardnilhesi	220
3	Xramhesi 1	112.8
4	Xramhesi 2	114.4
5	Zhinvalhesi	130
6	Cascade of Varcikhehesi	184
7	Rionhesi	48
8	Gumathesi	68.8
9	Lajanurhesi	112.5
10	Dzevrulahesi	80
11	Shaorhesi	38.4
12	Zahesi	36.8
13	Ortachalhesi	18
14	Atshesi	16
15	Chitakhevi	21
16	Sackhenhesi	14
17	Khadorhesi	24
18	Larsi hesi	19
19	Faravanhesi	86.54
20	Darialihesi	108.0
21	Khelvachaurihesi 1	47.5
22	Other Hydro Power Plants (Small Hydro power plants)	172.7
Thermal Electricity Plants		
23	Mtkvari energy	300
24	Tbilsresi	272
25	Gpower	110
26	Gardabani TP	231.2
27	Tkibuli TP	13

Source: Georgian National Energy and Water Supply Regulatory Commission

1.4 Small Hydro Power Plants operating in Georgia, 2016

1	Alazanhesi
2	Bzhuzhahesi
3	abhesi
4	Tetrikhevhesi
5	Sionhesi
6	Ritseulahesi
7	Chalahesi
8	Chkhorhesi
9	Dashbashhesi
10	Mashaverahesi
11	Kabalhesi
12	Kakhetihesi
13	Intsobahesi
14	Kazbegihesi
15	Energetiki hesi
16	Machakhelahesi
17	Misaktsielhesi
18	Skurhesi
19	Khertvishesi
20	Kinkishahesi
21	Achihesi
22	Igothesi
23	Sanaliahesi
24	Shaqshaqetihsesi
25	Marneulihsesi

26	Saguramohesi
27	Rustavihesi
28	Sulorhesi
29	Okamihsesi
30	Lopotahesi
31	Zvareti hesi
32	Tirifonhesi
33	Pantianihsesi
34	Fshavela hesi
35	Khadorhesi-2
36	Khanhesi
37	Racha hesi
38	Dagvahesi
39	Alazanhesi-2
40	Shildaheesi
41	Bakhvihsesi-3
42	Aragvihsesi
43	Akhmetahesi
44	Kazretihsesi
45	Pshavelahesi (stor pauer)
46	Martkofihesi
47	Algetihesi
48	Debedaheesi
49	Maksaniahesi

Source: Georgian State Electrosystem

AGGREGATED ENERGY BALANCE OF GEORGIA, 2016

(TJ)

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind, etc.	Biofuel & Waste	Electricity	Heat	Total
Production	5 040,5	1 638,8	-	231,0	-	33 585,1	885,7	16 241,2	-	-	57 622,3
Imports	6 925,2	1 813,1	63 916,4	78 935,5	-	-	-	8,0	4 782,6	-	156 380,7
Exports	26,2	769,7	4 530,0	-	-	-	-	54,6	5 071,0	-	10 451,4
International Marine Bunkers	-	-	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	3 048,0	-	-	-	-	-	-	-	3 048,0
Stock Changes	-1 001,2	15,3	1 012,9	-	-	-	-	-3,1	-	-	23,9
DOMESTIC SUPPLY	10 938,3	2 697,5	57 351,3	79 166,5	-	33 585,1	885,7	16 191,5	-288,4	-	200 527,6
Available	10 938,3	2 697,5	62 191,8	79 166,5	-	33 585,1	885,7	16 191,5	41 376,7	-	-
Transfers	-	-	4 840,5	-	-	-	-	-	-	-	4 840,5
Statistical Differences	0,0	0,0	-0,4	0,0	-	-	0,0	-0,1	0,0	-	-0,5
Transformation Sector - Input	450,2	2 697,5	2 210,5	18 256,0	-	33 585,1	32,4	-	-	-	57 231,6
MA Thermal Electricity Plants	450,2	-	-	18 256,0	-	-	-	-	-	-	18 706,2
MA Hydro Electricity Plants	-	-	-	-	-	33 585,1	-	-	-	-	33 585,1
MA Heat Plants	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	2 697,5	2 210,5	-	-	-	-	-	-	-	4 907,9
Wind Plants	-	-	-	-	-	-	32,4	-	-	-	32,4
Transformation Sector - Production	-	-	4 840,5	-	-	-	-	-	41 665,1	-	46 505,6
MA Thermal Electricity Plants	-	-	-	-	-	-	-	-	8 047,6	-	8 047,6
MA Hydro Electricity Plants	-	-	-	-	-	-	-	-	33 585,1	-	33 585,1
MA Heat Plants	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	4 840,5	-	-	-	-	-	-	-	4 840,5
Wind Plants	-	-	-	-	-	-	-	-	32,4	-	32,4

ENERGY BALANCE OF GEORGIA, 2016

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind, etc.	Biofuel & Waste	Electricity	Heat	Total
Energy Sector	18,7	-	-	-	-	-	-	-	803,9	-	822,6
Coal Mines	18,7	-	-	-	-	-	-	-	51,8	-	70,5
Oil and Gas Extraction	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-	-	-
Own Use in Thermal Electricity Plants	-	-	-	-	-	-	-	-	361,8	-	361,8
Own Use in Hydro Electricity Plants	-	-	-	-	-	-	-	-	390,2	-	390,2
Used for Pumped Storage	-	-	-	-	-	-	-	-	-	-	-
Non-specified (Energy)	-	-	-	-	-	-	-	-	-	-	-
Distribution Losses	-	-	-	4 767,0	-	-	84,1	-	2 821,3	-	7 672,4
FINAL CONSUMPTION	10 469,4	-	59 981,4	56 143,5	-	-	769,2	16 191,5	37 751,5	-	181 306,6
Industry	10 396,2	-	308,7	4 039,0	-	-	-	63,2	10 445,8	-	25 252,9
Iron and steel	3 701,3	-	2,0	458,5	-	-	-	-	5 166,7	-	9 328,5
Chemical (including petrochemical)	-	-	-	143,5	-	-	-	-	943,6	-	1 087,1
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	6 631,6	-	299,0	1 344,0	-	-	-	-	1 147,3	-	9 421,9
Transport equipment	-	-	-	14,0	-	-	-	-	11,9	-	25,9
Machinery	-	-	-	3,5	-	-	-	-	16,9	-	20,4
Mining and quarrying ¹	-	-	-	70,0	-	-	-	-	472,3	-	542,3
Food, beverages and tobacco	55,7	-	-	1 337,0	-	-	-	63,2	748,1	-	2 203,9
Paper, pulp and printing	-	-	-	73,5	-	-	-	-	52,2	-	125,7
Wood and wood products	7,7	-	-	10,5	-	-	-	-	24,8	-	43,0
Construction	-	-	6,4	507,5	-	-	-	-	474,8	-	988,8

¹ Including non-ferrous metals

ENERGY BALANCE OF GEORGIA, 2016

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind, etc.	Biofuel & Waste	Electricity	Heat	Total
Textiles and leather	-	-	-	35,0	-	-	-	-	43,2	-	78,2
Not elsewhere specified (Industry)	-	-	1,4	42,0	-	-	-	-	1 343,9	-	1 387,2
Transport	-	-	53 047,9	9 660,0	-	-	-	-	1 081,8	-	63 789,7
International aviation	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	46,7	-	-	-	-	-	-	-	46,7
Road	-	-	52 524,4	9 660,0	-	-	-	-	-	-	62 184,4
Rail	-	-	448,3	-	-	-	-	-	1 081,8	-	1 530,1
Domestic navigation	-	-	28,5	-	-	-	-	-	-	-	28,5
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Transport)	-	-	-	-	-	-	-	-	-	-	-
Other	73,2	-	1 798,0	34 660,5	-	-	769,2	16 128,4	26 223,8	-	79 653,1
Commercial and public services	27,5	-	456,0	6 678,0	-	-	478,9	194,5	10 375,2	-	18 210,0
Residential	35,4	-	708,2	27 615,0	-	-	253,3	15 933,7	8 722,8	-	53 268,3
Agriculture/forestry/fishing	10,3	-	633,8	367,5	-	-	37,0	0,3	189,0	-	1 238,0
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	6 936,8	-	6 936,8
Non-energy use	-	-	4 827,1	7 784,0	-	-	-	-	-	-	12 611,1
Transformation sector	-	-	-	-	-	-	-	-	-	-	-
Energy sector	-	-	69,9	-	-	-	-	-	-	-	69,9
Transport sector	-	-	626,2	-	-	-	-	-	-	-	626,2
International aviation	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	620,2	-	-	-	-	-	-	-	620,2
Rail	-	-	5,3	-	-	-	-	-	-	-	5,3
Domestic navigation	-	-	0,8	-	-	-	-	-	-	-	0,8

ENERGY BALANCE OF GEORGIA, 2016

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind, etc.	Biofuel & Waste	Electricity	Heat	Total
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Transport)	-	-	-	-	-	-	-	-	-	-	-
Industry sector	-	-	4 051,2	7 784,0	-	-	-	-	-	-	11 835,2
Iron and steel	-	-	7,6	-	-	-	-	-	-	-	7,6
Chemical (including petrochemical)	-	-	-	7 784,0	-	-	-	-	-	-	7 784,0
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	249,7	-	-	-	-	-	-	-	249,7
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying ²	-	-	57,0	-	-	-	-	-	-	-	57,0
Food, beverages and tobacco	-	-	-	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	3 683,7	-	-	-	-	-	-	-	3 683,7
Textiles and leather	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Industry)	-	-	53,2	-	-	-	-	-	-	-	53,2
Other sectors	-	-	79,8	-	-	-	-	-	-	-	79,8
Commercial and public services	-	-	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-	-	-
Agriculture/forestry/fishing	-	-	79,8	-	-	-	-	-	-	-	79,8
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-

² Including non-ferrous metals

AGGREGATED ENERGY BALANCE OF GEORGIA, 2016

(Thousand tonnes of oil equivalent)

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind etc.	Biofuel & Waste	Electricity	Heat	Total
Production	120,4	39,1	-	5,5	-	802,2	21,2	387,9	-	-	1 376,3
Imports	165,4	43,3	1 526,6	1 885,3	-	-	-	0,2	114,2	-	3 735,1
Exports	0,6	18,4	108,2	-	-	-	-	1,3	121,1	-	249,6
International Marine Bunkers	-	-	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	72,8	-	-	-	-	-	-	-	72,8
Stock Changes	-23,9	0,4	24,2	-	-	-	-	-0,1	-	-	0,6
DOMESTIC SUPPLY	261,3	64,4	1 369,8	1 890,9	-	802,2	21,2	386,7	-6,9	-	4 789,5
Available	261,3	64,4	1 485,4	1 890,9	-	802,2	21,2	386,7	988,3	-	-
Transfers	-	-	115,6	-	-	-	-	-	-	-	115,6
Statistical Differences	0,0	-0,0	-0,0	-	-	-	-	-0,0	0,0	-	-0,0
Transformation Sector - Input	10,8	64,4	52,8	436,0	-	802,2	0,8	-	-	-	1 367,0
MA Thermal Electricity Plants	10,8	-	-	436,0	-	-	-	-	-	-	446,8
MA Hydro Electricity Plants	-	-	-	-	-	802,2	-	-	-	-	802,2
MA Heat Plants	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	64,4	52,8	-	-	-	-	-	-	-	117,2
Wind Plants	-	-	-	-	-	-	0,8	-	-	-	0,8
Transformation Sector – Production	-	-	115,6	-	-	-	-	-	995,2	-	1 110,8
MA Thermal Electricity Plants	-	-	-	-	-	-	-	-	192,2	-	192,2
MA Hydro Electricity Plants	-	-	-	-	-	-	-	-	802,2	-	802,2
MA Heat Plants	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	115,6	-	-	-	-	-	-	-	115,6
Wind Plants	-	-	-	-	-	-	-	-	0,8	-	0,8

ENERGY BALANCE OF GEORGIA, 2016

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind etc.	Biofuel & Waste	Electricity	Heat	Total
Energy Sector	0,4	-	-	-	-	-	-	-	19,2	-	19,6
Coal Mines	0,4	-	-	-	-	-	-	-	1,2	-	1,7
Oil and Gas Extraction	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-	-	-
Own Use in Thermal Electricity Plants	-	-	-	-	-	-	-	-	8,6	-	8,6
Own Use in Hydro Electricity Plants	-	-	-	-	-	-	-	-	9,3	-	9,3
Used for Pumped Storage	-	-	-	-	-	-	-	-	-	-	-
Non-specified (Energy)	-	-	-	-	-	-	-	-	-	-	-
Distribution Losses	-	-	-	113,9	-	-	2,0	-	67,4	-	183,3
FINAL CONSUMPTION	250,1	-	1 432,6	1 341,0	-	-	18,4	386,7	901,7	-	4 330,5
Industry	248,3	-	7,4	96,5	-	-	-	1,5	249,5	-	603,2
Iron and steel	88,4	-	-	11,0	-	-	-	-	123,4	-	222,8
Chemical (including petrochemical)	-	-	-	3,4	-	-	-	-	22,5	-	26,0
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	158,4	-	7,1	32,1	-	-	-	-	27,4	-	225,0
Transport equipment	-	-	-	0,3	-	-	-	-	0,3	-	0,6
Machinery	-	-	-	0,1	-	-	-	-	0,4	-	0,5
Mining and quarrying ³	-	-	-	1,7	-	-	-	-	11,3	-	13,0
Food, beverages and tobacco	1,3	-	-	31,9	-	-	-	1,5	17,9	-	52,6
Paper, pulp and printing	-	-	-	1,8	-	-	-	-	1,2	-	3,0
Wood and wood products	0,2	-	-	0,3	-	-	-	-	0,6	-	1,0
Construction	-	-	0,2	12,1	-	-	-	-	11,3	-	23,6
Textiles and leather	-	-	-	0,8	-	-	-	-	1,0	-	1,9
Not elsewhere specified (Industry)	-	-	-	1,0	-	-	-	-	32,1	-	33,2

³ Including non-ferrous metals

ENERGY BALANCE OF GEORGIA, 2016

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind etc.	Biofuel & Waste	Electricity	Heat	Total
Transport	-	-	1 267,0	230,7	-	-	-	-	25,8	-	1 523,6
International aviation	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	1,1	-	-	-	-	-	-	-	1,1
Road	-	-	1 254,5	230,7	-	-	-	-	-	-	1 485,2
Rail	-	-	10,7	-	-	-	-	-	25,8	-	36,5
Domestic navigation	-	-	0,7	-	-	-	-	-	-	-	0,7
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Transport)	-	-	-	-	-	-	-	-	-	-	-
Other	1,7	-	42,9	827,9	-	-	18,4	385,2	626,3	-	1 902,5
Commercial and public services	0,7	-	10,9	159,5	-	-	11,4	4,6	247,8	-	434,9
Residential	0,8	-	16,9	659,6	-	-	6,0	380,6	208,3	-	1 272,3
Agriculture/forestry/fishing	0,2	-	15,1	8,8	-	-	0,9	0,0	4,5	-	29,6
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	165,7	-	165,7
Non-energy use	-	-	115,3	185,9	-	-	-	-	-	-	301,2
Transformation sector	-	-	-	-	-	-	-	-	-	-	-
Energy sector	-	-	1,7	-	-	-	-	-	-	-	1,7
Transport sector	-	-	15,0	-	-	-	-	-	-	-	15,0
International aviation	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	14,8	-	-	-	-	-	-	-	14,8
Rail	-	-	0,1	-	-	-	-	-	-	-	0,1
Domestic navigation	-	-	-	-	-	-	-	-	-	-	-
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Transport)	-	-	-	-	-	-	-	-	-	-	-
Industry sector	-	-	96,8	185,9	-	-	-	-	-	-	282,7

ENERGY BALANCE OF GEORGIA, 2016

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind etc.	Biofuel & Waste	Electricity	Heat	Total
Iron and steel	-	-	0,2	-	-	-	-	-	-	-	0,2
Chemical (including petrochemical)	-	-	-	185,9	-	-	-	-	-	-	185,9
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	6,0	-	-	-	-	-	-	-	6,0
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying ⁴	-	-	1,4	-	-	-	-	-	-	-	1,4
Food, beverages and tobacco	-	-	-	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	88,0	-	-	-	-	-	-	-	88,0
Textiles and leather	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Industry)	-	-	1,3	-	-	-	-	-	-	-	1,3
Other sectors	-	-	1,9	-	-	-	-	-	-	-	1,9
Commercial and public services	-	-	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-	-	-
Agriculture/forestry/fishing	-	-	1,9	-	-	-	-	-	-	-	1,9
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-

⁴ Including non-ferrous metals

ELECTRICITY AND HEAT



SUPPLY AND CONSUMPTION OF ELECTRICITY AND HEAT, 2016

	Hydro (GWh)	Wind	Geothermal (TJ)	Solar (TJ)	Electricity (GWh)
Production	9 329,2	9,0	725,8	127,5	11 573,6
Imports	-	-	-	-	1 328,5
Exports	-	-	-	-	1 408,6
Stock Changes	-	-	-	-	-
DOMESTIC SUPPLY	9 329,2	9,0	725,8	127,5	11 493,5
Transfers	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	0,0
Transformation Sector - Input	9 329,2	9,0	-	-	-
MA Hydro Electricity Plants	9 329,2	-	-	-	-
Wind Plants	-	9,0	-	-	-
Transformation Sector - Production	-	-	-	-	11 573,6
MA Thermal Electricity Plants	-	-	-	-	2 235,5
MA Hydro Electricity Plants	-	-	-	-	9 329,2
Wind Plants	-	-	-	-	9,0
Energy Sector	-	-	-	-	223,3
Coal Mines	-	-	-	-	14,4
Own Use in Thermal Electricity Plants	-	-	-	-	100,5
Own Use in Hydro Electricity Plants	-	-	-	-	108,4
Distribution Losses	-	-	84,1	-	783,7
FINAL CONSUMPTION	-	-	641,7	127,5	10 486,5
Industry	-	-	-	-	2 901,6
Iron and steel	-	-	-	-	1 435,2
Chemical (including petrochemical)	-	-	-	-	262,1
Non-ferrous metals	-	-	-	-	...
Non-metallic minerals	-	-	-	-	318,7
Transport equipment	-	-	-	-	3,3
Machinery	-	-	-	-	4,7
Mining and quarrying ¹	-	-	-	-	131,2
Food, beverages and tobacco	-	-	-	-	207,8
Paper, pulp and printing	-	-	-	-	14,5
Wood and wood products	-	-	-	-	6,9
Construction	-	-	-	-	131,9
Textiles and leather	-	-	-	-	12,0
Not elsewhere specified (Industry)	-	-	-	-	373,3
Transport	-	-	-	-	300,5
Rail	-	-	-	-	300,5

¹ Including non-ferrous metals

ELECTRICITY AND HEAT

	Hydro (GWh)	Wind	Geothermal (TJ)	Solar (TJ)	Electricity (GWh)
Other	-	-	641,7	127,5	7 284,4
Commercial and public services	-	-	351,4	127,5	2 882,0
Residential	-	-	253,3	...	2 423,0
Agriculture/forestry/fishing	-	-	37,0	-	52,5
Not elsewhere specified (Other)	-	-	-	-	1 926,9

SUPPLY AND CONSUMPTION OF ELECTRICITY AND HEAT, 2016
(TJ)

	Hydro	Wind	Geothermal	Solar	Electricity	Total
Production	33 585,1	32,4	725,8	127,5	-	34 470,8
Imports	-	-	-	-	4 782,6	4 782,6
Exports	-	-	-	-	5 071,0	5 071,0
Stock Changes	-	-	-	-	-	-
DOMESTIC SUPPLY	33 585,1	32,4	725,8	127,5	-288,4	34 182,5
Available	33 585,1	32,4	725,8	127,5	41 376,7	-
Transfers	-	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	0,0	0,0
Transformation Sector - Input	33 585,1	32,4	-	-	-	33 617,5
MA Hydro Electricity Plants	33 585,1	-	-	-	-	33 585,1
Wind Plants	-	32,4	-	-	-	32,4
Transformation Sector - Production	-	-	-	-	41 665,1	41 665,1
MA Thermal Electricity Plants	-	-	-	-	8 047,6	8 047,6
MA Hydro Electricity Plants	-	-	-	-	33 585,1	33 585,1
Wind Plants	-	-	-	-	32,4	32,4
Energy Sector	-	-	-	-	803,9	803,9
Coal Mines	-	-	-	-	51,8	51,8
Own Use in Thermal Electricity Plants	-	-	-	-	361,8	361,8
Own Use in Hydro Electricity Plants	-	-	-	-	390,2	390,2
Distribution Losses	-	-	84,1	-	2 821,3	2 905,4
FINAL CONSUMPTION	-	-	641,7	127,5	37 751,5	38 520,7
Industry	-	-	-	-	10 445,8	10 445,8
Iron and steel	-	-	-	-	5 166,7	5 166,7
Chemical (including petrochemical)	-	-	-	-	943,6	943,6
Non-ferrous metals	-	-	-	-
Non-metallic minerals	-	-	-	-	1 147,3	1 147,3
Transport equipment	-	-	-	-	11,9	11,9
Machinery	-	-	-	-	16,9	16,9
Mining and quarrying ²	-	-	-	-	472,3	472,3
Food, beverages and tobacco	-	-	-	-	748,1	748,1
Paper, pulp and printing	-	-	-	-	52,2	52,2
Wood and wood products	-	-	-	-	24,8	24,8
Construction	-	-	-	-	474,8	474,8

² Including non-ferrous metals

ELECTRICITY AND HEAT

	Hydro	Wind	Geothermal	Solar	Electricity	Total
Textiles and leather	-	-	-	-	43,2	43,2
Not elsewhere specified (Industry)	-	-	-	-	1 343,9	1 343,9
Transport	-	-	-	-	1 081,8	1 081,8
Rail	-	-	-	-	1 081,8	1 081,8
Other	-	-	641,7	127,5	26 223,8	26 993,0
Commercial and public services	-	-	351,4	127,5	10 375,2	10 854,1
Residential	-	-	253,3	...	8 722,8	8 976,1
Agriculture/forestry/fishing	-	-	37,0	-	189,0	226,0
Not elsewhere specified (Other)	-	-	-	-	6 936,8	6 936,8

SUPPLY AND CONSUMPTION OF ELECTRICITY AND HEAT, 2016
(thousand tonnes of oil equivalent)

	Hydro	Wind	Geothermal	Solar	Electricity	Total
Production	802,2	0,8	17,3	3,0	-	823,3
Imports	-	-	-	-	114,2	114,2
Exports	-	-	-	-	121,1	121,1
Stock Changes	-	-	-	-	-	-
DOMESTIC SUPPLY	802,2	0,8	17,3	3,0	-6,9	816,4
Available	802,2	0,8	17,3	3,0	988,3	-
Transfers	-	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	0,0	0,0
Transformation Sector - Input	802,2	0,8	-	-	-	802,9
MA Hydro Electricity Plants	802,2	-	-	-	-	802,2
Wind Plants	-	0,8	-	-	-	0,8
Transformation Sector - Production	-	-	-	-	995,2	995,2
MA Thermal Electricity Plants	-	-	-	-	192,2	192,2
MA Hydro Electricity Plants	-	-	-	-	802,2	802,2
Wind Plants	-	-	-	-	0,8	0,8
Energy Sector	-	-	-	-	19,2	19,2
Coal Mines	-	-	-	-	1,2	1,2
Own Use in Thermal Electricity Plants	-	-	-	-	8,6	8,6
Own Use in Hydro Electricity Plants	-	-	-	-	9,3	9,3
Distribution Losses	-	-	2,0	-	67,4	69,4
FINAL CONSUMPTION	-	-	15,3	3,0	901,7	920,1
Industry	-	-	-	-	249,5	249,5
Iron and steel	-	-	-	-	123,4	123,4
Chemical (including petrochemical)	-	-	-	-	22,5	22,5
Non-ferrous metals	-	-	-	-
Non-metallic minerals	-	-	-	-	27,4	27,4
Transport equipment	-	-	-	-	0,3	0,3
Machinery	-	-	-	-	0,4	0,4
Mining and quarrying ³	-	-	-	-	11,3	11,3
Food, beverages and tobacco	-	-	-	-	17,9	17,9
Paper, pulp and printing	-	-	-	-	1,2	1,2
Wood and wood products	-	-	-	-	0,6	0,6
Construction	-	-	-	-	11,3	11,3

³ Including non-ferrous metals

ELECTRICITY AND HEAT

	Hydro	Wind	Geothermal	Solar	Electricity	Total
Textiles and leather	-	-	-	-	1,0	1,0
Not elsewhere specified (Industry)	-	-	-	-	32,1	32,1
Transport	-	-	-	-	25,8	25,8
Rail	-	-	-	-	25,8	25,8
Other	-	-	15,3	3,0	626,3	644,7
Commercial and public services	-	-	8,4	3,0	247,8	259,2
Residential	-	-	6,0	...	208,3	214,4
Agriculture/forestry/fishing	-	-	0,9	-	4,5	5,4
Not elsewhere specified (Other)	-	-	-	-	165,7	165,7

NATURAL GAS



SUPPLY AND CONSUMPTION OF NATURAL GAS, 2016

	Natural Gas (mil. m ³)
Production	6,6
Imports	2 255,3
Exports	-
Stock Changes	-
DOMESTIC SUPPLY	2 261,9
Transfers	-
Statistical Differences	0,0
Transformation Sector - Input	521,6
MA Thermal Electricity Plants	521,6
MA Hydro Electricity Plants	-
MA Heat Plants	-
Petroleum Refineries	-
Distribution Losses	136,2
FINAL CONSUMPTION	1 604,1
Industry	115,4
Iron and steel	13,1
Chemical (including petrochemical)	4,1
Non-ferrous metals	...
Non-metallic minerals	38,4
Transport equipment	0,4
Machinery	0,1
Mining and quarrying ¹	2,0
Food, beverages and tobacco	38,2
Paper, pulp and printing	2,1
Wood and wood products	0,3
Construction	14,5
Textiles and leather	1,0
Not elsewhere specified (Industry)	1,2
Transport	276,0
Road	276,0
Other	990,3
Commercial and public services	190,8
Residential	789,0
Agriculture/forestry/fishing	10,5
other	-

¹ Including non-ferrous metals

NATURAL GAS

	Natural Gas (mil. m ³)
Non-energy use	222,4
Industry sector	222,4
Chemical (including petrochemical)	222,4

SUPPLY AND CONSUMPTION OF NATURAL GAS, 2016

(TJ)

	Natural Gas
Production	231,0
Imports	78 935,5
Exports	-
Stock Changes	-
DOMESTIC SUPPLY	79 166,5
Available	79 166,5
Transfers	-
Statistical Differences	-
Transformation Sector - Input	18 256,0
MA Thermal Electricity Plants	18 256,0
MA Hydro Electricity Plants	-
MA Heat Plants	-
Petroleum Refineries	-
Distribution Losses	4 767,0
FINAL CONSUMPTION	56 143,5
Industry	4 039,0
Iron and steel	458,5
Chemical (including petrochemical)	143,5
Non-ferrous metals	...
Non-metallic minerals	1 344,0
Transport equipment	14,0
Machinery	3,5
Mining and quarrying ²	70,0
Food, beverages and tobacco	1 337,0
Paper, pulp and printing	73,5
Wood and wood products	10,5
Construction	507,5
Textiles and leather	35,0
Not elsewhere specified (Industry)	42,0
Transport	9 660,0
Road	9 660,0
Other	34 660,5
Commercial and public services	6 678,0
Residential	27 615,0

² Including non-ferrous metals

NATURAL GAS

	Natural Gas
Agriculture/forestry/fishing	367,5
Not elsewhere specified (Other)	-
Non-energy use	7 784,0
Industry sector	7 784,0
Chemical (including petrochemical)	7 784,0

SUPPLY AND CONSUMPTION OF NATURAL GAS, 2016

(Thousand tonnes of oil equivalent)

	Natural Gas
Production	5,5
Imports	1 885,3
Exports	-
Stock Changes	-
DOMESTIC SUPPLY	1 890,9
Available	1 890,9
Transfers	-
Statistical Differences	-
Transformation Sector - Input	436,0
MA Thermal Electricity Plants	436,0
MA Hydro Electricity Plants	-
MA Heat Plants	-
Petroleum Refineries	-
Distribution Losses	113,9
FINAL CONSUMPTION	1 341,0
Industry	96,5
Iron and steel	11,0
Chemical (including petrochemical)	3,4
Non-ferrous metals	...
Non-metallic minerals	32,1
Transport equipment	0,3
Machinery	0,1
Mining and quarrying ³	1,7
Food, beverages and tobacco	31,9
Paper, pulp and printing	1,8
Wood and wood products	0,3
Construction	12,1
Textiles and leather	0,8
Not elsewhere specified (Industry)	1,0
Transport	230,7
Road	230,7
Other	827,9
Commercial and public services	159,5
Residential	659,6
Agriculture/forestry/fishing	8,8

³ Including non-ferrous metals

NATURAL GAS

	Natural Gas
Not elsewhere specified (Other)	-
Non-energy use	185,9
Industry sector	185,9
Chemical (including petrochemical)	185,9

COAL



SUPPLY AND CONSUMPTION OF COAL, 2016

(Thousand tonnes)

	Anthracite	Other Bit. Coal	Lignite/ Brown Coal	Coke Oven Coke
Production	-	-	296,5	-
Imports	6,9	96,6	-	147,0
Exports	-	-	1,5	-
Stock Changes	-4,0	-5,0	-8,9	-20,7
DOMESTIC SUPPLY	2,9	91,6	286,1	126,3
Transfers	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0
Transformation Sector - Input	-	-	26,5	-
Coal TP	-	-	26,5	-
Energy Sector	-	-	1,1	-
Coal Mines	-	-	1,1	-
FINAL CONSUMPTION	2,9	91,6	258,5	126,3
Industry	1,9	91,6	255,8	126,3
Iron and steel	-	-	-	-
Non-metallic minerals	-	91,6	255,4	-
Mining and quarrying ¹	-	-	-	-
Food, beverages and tobacco	1,9	-	-	-
Wood and wood products	-	-	0,5	-
Not elsewhere specified (Industry)	-	-	-	-
Other	1,0	-	2,7	-
Commercial and public services	0,6	-	0,7	-
Residential	0,3	-	1,7	-
Agriculture/forestry/fishing	0,2	-	0,4	-

¹ Including non-ferrous metals

SUPPLY AND CONSUMPTION OF COAL, 2016

(TJ)

	Anthracite	Other Bit. Coal	Lignite/ Brown Coal	Coke Oven Coke	Total
Production	-	-	5 040,5	-	5 040,5
Imports	202,2	2 415,3	-	4 307,7	6 925,2
Exports	-	-	26,2	-	26,2
Stock Changes	-118,4	-125,3	-151,1	-606,4	-1 001,2
DOMESTIC SUPPLY	83,8	2 290,0	4 863,2	3 701,3	10 938,3
Available	83,8	2 290,0	4 863,2	3 701,3	10 938,3
Transfers	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	0,0
Transformation Sector - Input	-	-	450,2	-	450,2
Coal TP	-	-	450,2	-	450,2
Energy Sector	-	-	18,7	-	18,7
Coal Mines	-	-	18,7	-	18,7
FINAL CONSUMPTION	83,8	2 290,0	4 394,3	3 701,3	10 469,4
Industry	55,7	2 290,0	4 349,3	3 701,3	10 396,2
Iron and steel	-	-	-	3 701,3	3 701,3
Non-metallic minerals	-	2 290,0	4 341,6	-	6 631,6
Mining and quarrying ²	-	-	-	-	-
Food, beverages and tobacco	55,7	-	-	-	55,7
Wood and wood products	-	-	7,7	-	7,7
Not elsewhere specified (Industry)	-	-	-	-	-
Other	28,1	-	45,1	-	73,2
Commercial and public services	16,4	-	11,1	-	27,5
Residential	7,3	-	28,1	-	35,4
Agriculture/forestry/fishing	4,4	-	6,0	-	10,3

² Including non-ferrous metals

SUPPLY AND CONSUMPTION OF COAL, 2016

(Thousand tonnes of oil equivalent)

	Anthracite	Other Bit. Coal	Lignite/ Brown Coal	Coke Oven Coke	Total
Production	-	-	120,4	-	120,4
Imports	4,8	57,7	-	102,9	165,4
Exports	-	-	0,6	-	0,6
Stock Changes	-2,8	-3,0	-3,6	-14,6	-23,9
Domestic Supply	2,0	54,7	116,2	88,4	261,3
Available	2,0	54,7	116,2	88,4	261,3
Transfers	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	0,0
Transformation Sector - Input	-	-	10,8	-	10,8
Coal TP	-	-	10,8	-	10,8
Energy Sector	-	-	0,4	-	0,4
Coal Mines	-	-	0,4	-	0,4
FINAL CONSUMPTION	2,0	54,7	105,0	88,4	250,1
Industry	1,3	54,7	103,9	88,4	248,3
Iron and steel	-	-	-	88,4	88,4
Non-metallic minerals	-	54,7	103,7	-	158,4
Mining and quarrying ³	-	-	-	-	-
Food, beverages and tobacco	1,3	-	-	-	1,3
Wood and wood products	-	-	0,2	-	0,2
Not elsewhere specified (Industry)	-	-	-	-	-
Other	0,7	-	1,1	-	1,7
Commercial and public services	0,4	-	0,3	-	0,7
Residential	0,2	-	0,7	-	0,8
Agriculture/forestry/fishing	0,1	-	0,1	-	0,2

³ Including non-ferrous metals

OIL AND OIL PRODUCTS



OIL AND OIL PRODUCTS

SUPPLY AND CONSUMPTION OF OIL AND OIL PRODUCTS, 2016

	Crude Oil (1000 tonnes)	Liquefied Petroleum Gases (1000 tonnes)	Motor Gasoline (1000 tonnes)	Kerosene type Jet Fuel (1000 tonnes)	Kerosene (1000 tonnes)	Road diesel (1000 tonnes)	Heating and other gas oil (1000 tonnes)	Fuel oil-low sulphur (< 1%) (1000 tonnes)	Fuel oil-high sulphur (>= 1%) (1000 tonnes)	Lubricants (1000 tonnes)	Bitumen (1000 tonnes)	Paraffin Waxes (1000 tonnes)	Non-specified Petroleum Prods. (1000 tonnes)
Production	38,6	-	-	-	-	-	-	-	-	-	-	-	-
Imports	42,7	12,8	576,2	70,7	0,0	648,1	10,2	44,2	-	21,9	103,6	-	9,0
Exports	18,1	-	-	-	-	0,4	-	19,0	-	2,0	-	-	96,7
International Marine Bunkers	-	-	-	-	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	70,5	-	-	-	-	-	-	-	-	-
Stock Changes	0,4	3,6	14,2	0,9	-	-16,4	-	23,3	-	1,0	1,1	-	-3,5
DOMESTIC SUPPLY	63,5	16,4	590,4	1,1	0,0	631,3	10,2	48,5	-	20,9	104,7	-	-91,2
Transfers	-	-	7,1	-	-	9,4	-	8,1	-	-	-	-	100,1
Statistical Differences	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	-	0,0	0,0	-	0,0
Transformation Sector - Input	63,5	-	-	-	-	-	-	55,0	-	-	-	-	-
Petroleum Refineries	63,5	-	-	-	-	-	-	55,0	-	-	-	-	-
Transformation Sector - Production	-	-	7,1	-	-	9,4	-	8,1	-	-	-	-	100,1
Petroleum Refineries	-	-	7,1	-	-	9,4	-	8,1	-	-	-	-	100,1
FINAL CONSUMPTION	-	16,4	597,4	1,1	0,0	640,7	10,2	1,6	-	20,9	104,7	-	8,9
Industry	-	0,0	-	-	-	-	-	0,5	-	-	-	-	7,6
Iron and steel	-	-	-	-	-	-	-	0,1	-	-	-	-	-
Chemical (including petrochemical)	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	0,3	-	-	-	-	7,6
Transport equipment	-	-	-	-	-	-	-	-	-	-	-	-	-

OIL AND OIL PRODUCTS

	Crude Oil (1000 tonnes)	Liquefied Petroleum Gases (1000 tonnes)	Motor Gasoline (1000 tonnes)	Kerosene type Jet Fuel (1000 tonnes)	Kerosene (1000 tonnes)	Road diesel (1000 tonnes)	Heating and other gas oil (1000 tonnes)	Fuel oil-low sulphur (< 1%) (1000 tonnes)	Fuel oil-high sulphur (>= 1%) (1000 tonnes)	Lubricants (1000 tonnes)	Bitumen (1000 tonnes)	Paraffin Waxes (1000 tonnes)	Non-specified Petroleum Prods. (1000 tonnes)
Mining and quarrying ¹	-	-	-	-	-	-	-	-	-	-	-	-	-
Food, beverages and tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	0,2	-	-	-	-	-
Not elsewhere specified (Industry)	-	0,0	-	-	-	-	-	-	-	-	-	-	-
Transport	-	0,7	596,6	1,1	-	626,8	-	0,5	-	-	-	-	-
International aviation	-	-	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	1,1	-	-	-	-	-	-	-	-	-
Road	-	0,7	596,6	-	-	616,0	-	-	-	-	-	-	-
Rail	-	-	-	-	-	10,1	-	0,5	-	-	-	-	-
Domestic navigation	-	-	-	-	-	0,7	-	-	-	-	-	-	-
Other	-	15,7	0,9	-	0,0	13,9	10,2	0,6	-	-	-	-	-
Commercial and public services	-	-	-	-	-	-	10,1	0,6	-	-	-	-	-
Residential	-	15,7	-	-	0,0	-	-	-	-	-	-	-	-
Agriculture/forestry/fishing	-	-	0,9	-	-	13,9	0,1	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-	20,9	104,7	-	1,4
Energy sector	-	-	-	-	-	-	-	-	-	1,8	-	-	-
Transport sector	-	-	-	-	-	-	-	-	-	16,5	-	-	-
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-	16,3	-	-	-
Rail	-	-	-	-	-	-	-	-	-	0,1	-	-	-

¹ Including non-ferrous metals

OIL AND OIL PRODUCTS

	Crude Oil (1000 tonnes)	Liquefied Petroleum Gases (1000 tonnes)	Motor Gasoline (1000 tonnes)	Kerosene type Jet Fuel (1000 tonnes)	Kerosene (1000 tonnes)	Road diesel (1000 tonnes)	Heating and other gas oil (1000 tonnes)	Fuel oil-low sulphur (< 1%) (1000 tonnes)	Fuel oil-high sulphur (>= 1%) (1000 tonnes)	Lubricants (1000 tonnes)	Bitumen (1000 tonnes)	Paraffin Waxes (1000 tonnes)	Non-specified Petroleum Prods. (1000 tonnes)
Domestic navigation	-	-	-	-	-	-	-	-	-	0,0	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-	0,5	104,7	-	1,4
Iron and steel	-	-	-	-	-	-	-	-	-	0,2	-	-	-
Chemical (including petrochemical)	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-	0,2	6,4	-	-
Mining and quarrying ²	-	-	-	-	-	-	-	-	-	-	1,5	-	-
Food, beverages and tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-	0,1	96,8	-	-
Not elsewhere specified (Industry)	-	-	-	-	-	-	-	-	-	0,1	-	-	1,4
Other sectors	-	-	-	-	-	-	-	-	-	2,1	-	-	-
Agriculture/forestry/fishing	-	-	-	-	-	-	-	-	-	2,1	-	-	-
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-	-	-

² Including non-ferrous metals

SUPPLY AND CONSUMPTION OF OIL AND OIL PRODUCTS, 2016

(TJ)

	Crude Oil	Liquefied Petroleum Gases	Motor Gasoline	Kerosene type Jet Fuel	Kerosene	Road diesel	Heating and other gas oil	Fuel oil-low sulph. (< 1%)	Fuel oil-high sulph. (>=1%)	Lubricants	Bitumen	Paraffin Waxes	Non-specified Petroleum Prods.	Total
Production	1 638,8	-	-	-	-	-	-	-	-	-	-	-	-	1 638,8
Imports	1 813,1	577,8	25 351,5	3 056,2	0,9	27 607,8	434,1	1 775,6	-	833,7	3 936,8	-	342,0	65 729,4
Exports	769,7	-	-	-	-	15,8	-	763,6	-	76,0	-	-	3 674,6	5 299,6
International Marine Bunkers	-	-	-	-	-	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	3 048,0	-	-	-	-	-	-	-	-	-	3 048,0
Stock Changes	15,3	162,4	624,8	38,9	-	-698,6	-	936,0	-	38,0	43,3	-	-131,9	1 028,2
DOMESTIC SUPPLY	2 697,5	740,2	25 976,3	47,1	0,9	26 893,4	434,1	1 948,0	-	795,7	3 980,1	-	-3 464,5	60 048,8
Available	2 697,5	740,2	26 287,4	47,1	0,9	27 293,4	434,1	2 274,8	-	795,7	3 980,1	-	338,2	64 889,3
Transfers	-	-	311,1	-	-	400,0	-	326,7	-	-	-	-	3 802,7	4 840,5
Statistical Differences	0,0	0,0	-0,9	0,4	0,1	0,4	-0,4	0,0	-	0,0	0,0	-	0,0	-0,4
Transformation Sector - Input	2 697,5	-	-	-	-	-	-	2 210,5	-	-	-	-	-	4 907,9
Petroleum Refineries	2 697,5	-	-	-	-	-	-	2 210,5	-	-	-	-	-	4 907,9
Transformation Sector - Production	-	-	311,1	-	-	400,0	-	326,7	-	-	-	-	3 802,7	4 840,5
Petroleum Refineries	-	-	311,1	-	-	400,0	-	326,7	-	-	-	-	3 802,7	4 840,5
FINAL CONSUMPTION	-	740,2	26 287,4	47,1	0,9	27 293,4	434,1	64,3	-	795,7	3 980,1	-	338,2	59 981,4
Industry	-	1,4	-	-	-	-	-	20,5	-	-	-	-	286,9	308,7
Iron and steel	-	-	-	-	-	-	-	2,0	-	-	-	-	-	2,0

OIL AND OIL PRODUCTS

	Crude Oil	Liquefied Petroleum Gases	Motor Gasoline	Kerosene type Jet Fuel	Kerosene	Road diesel	Heating and other gas oil	Fuel oil-low sulph. (< 1%)	Fuel oil-high sulph. (>=1%)	Lubricants	Bitumen	Paraffin Waxes	Non-specified Petroleum Prods.	Total
Chemical (including petrochemical)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	12,1	-	-	-	-	286,9	299,0
Transport equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying ³	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Food, beverages and tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	6,4	-	-	-	-	-	6,4
Not elsewhere specified (Industry)	-	1,4	-	-	-	-	-	-	-	-	-	-	-	1,4
Transport	-	31,5	26 250,8	46,7	-	26 700,8	-	18,1	-	-	-	-	-	53 047,9
International aviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	46,7	-	-	-	-	-	-	-	-	-	46,7
Road	-	31,5	26 250,8	-	-	26 242,0	-	-	-	-	-	-	-	52 524,4
Rail	-	-	-	-	-	430,3	-	18,1	-	-	-	-	-	448,3
Domestic navigation	-	-	-	-	-	28,5	-	-	-	-	-	-	-	28,5
Other	-	707,4	37,4	-	0,8	592,1	434,5	25,7	-	-	-	-	-	1 798,0
Commercial and public services	-	-	-	-	-	-	430,3	25,7	-	-	-	-	-	456,0
Residential	-	707,4	-	-	0,8	-	-	-	-	-	-	-	-	708,2
Agriculture/forestry/fishing	-	-	37,4	-	-	592,1	4,3	-	-	-	-	-	-	633,8
Non-energy use	-	-	-	-	-	-	-	-	-	795,7	3 980,1	-	51.3	4 827,1

³ Including non-ferrous metals

OIL AND OIL PRODUCTS

	Crude Oil	Liquefied Petroleum Gases	Motor Gasoline	Kerosene type Jet Fuel	Kerosene	Road diesel	Heating and other gas oil	Fuel oil-low sulph. (< 1%)	Fuel oil-high sulph. (>=1%)	Lubricants	Bitumen	Paraffin Waxes	Non-specified Petroleum Prods.	Total
Energy sector	-	-	-	-	-	-	-	-	-	69,9	-	-	-	69,9
Transport sector	-	-	-	-	-	-	-	-	-	626,2	-	-	-	626,2
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-	620,2	-	-	-	620,2
Rail	-	-	-	-	-	-	-	-	-	5,3	-	-	-	5,3
Domestic navigation	-	-	-	-	-	-	-	-	-	0,8	-	-	-	0,8
Industry sector	-	-	-	-	-	-	-	-	-	19,8	3 980,1	-	51,3	4 051,2
Iron and steel	-	-	-	-	-	-	-	-	-	7,6	-	-	-	7,6
Chemical (including petrochemical)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-	6,5	243,2	-	-	249,7
Mining and quarrying ⁴	-	-	-	-	-	-	-	-	-	-	57,0	-	-	57,0
Food, beverages and tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-	3,8	3 679,9	-	-	3 683,7
Not elsewhere specified (Industry)	-	-	-	-	-	-	-	-	-	1,9	-	-	51,3	53,2
Other sectors	-	-	-	-	-	-	-	-	-	79,8	-	-	-	79,8
Agriculture/forestry/fishing	-	-	-	-	-	-	-	-	-	79,8	-	-	-	79,8
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-	-	-	-

⁴ Including non-ferrous metals

SUPPLY AND CONSUMPTION OF OIL AND OIL PRODUCTS, 2016
(Thousand tonnes of oil equivalent)

	Crude Oil	Liquefied Petroleum Gases	Motor Gasoline	Kerosene type Jet Fuel	Kerosene	Road diesel	Heating and other gas oil	Fuel oil-low sulph. (< 1%)	Fuel oil-high sulph. (>=1%)	Lubricants	Bitumen	Paraffin Waxes	Non-specified Petroleum Prods.	Total
Production	39,1	-	-	-	-	-	-	-	-	-	-	-	-	39,1
Imports	43,3	13,8	605,5	73,0	0,0	659,4	10,4	42,4	-	19,9	94,0	-	8,2	1 569,9
Exports	18,4	-	-	-	-	0,4	-	18,2	-	1,8	-	-	87,8	126,6
International Marine Bunkers	-	-	-	-	-	-	-	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	72,8	-	-	-	-	-	-	-	-	-	72,8
Stock Changes	0,4	3,9	14,9	0,9	-	-16,7	-	22,4	-	0,9	1,0	-	-3,1	24,6
DOMESTIC SUPPLY	64,4	17,7	620,4	1,1	0,0	642,3	10,4	46,5	-	19,0	95,1	-	-82,7	1 434,2
Available	64,4	17,7	627,9	1,1	0,0	651,9	10,4	54,3	-	19,0	95,1	-	8,1	1 549,9
Transfers	-	-	7,4	-	-	9,6	-	7,8	-	-	-	-	90,8	115,6
Statistical Differences	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	-	0,0	0,0	-	0,0	0,0
Transformation Sector - Input	64,4	-	-	-	-	-	-	52,8	-	-	-	-	-	117,2
Petroleum Refineries	64,4	-	-	-	-	-	-	52,8	-	-	-	-	-	117,2
Transformation Sector - Production	-	-	7,4	-	-	9,6	-	7,8	-	-	-	-	90,8	115,6
Petroleum Refineries	-	-	7,4	-	-	9,6	-	7,8	-	-	-	-	90,8	115,6
FINAL CONSUMPTION	-	17,7	627,9	1,1	0,0	651,9	10,4	1,5	-	19,0	95,1	-	8,1	1 432,6
Industry	-	0,0	-	-	-	-	-	0,5	-	-	-	-	6,9	7,4
Iron and steel	-	-	-	-	-	-	-	0,0	-	-	-	-	-	0,0

OIL AND OIL PRODUCTS

	Crude Oil	Liquefied Petroleum Gases	Motor Gasoline	Kerosene type Jet Fuel	Kerosene	Road diesel	Heating and other gas oil	Fuel oil-low sulph. (< 1%)	Fuel oil-high sulph. (>=1%)	Lubricants	Bitumen	Paraffin Waxes	Non-specified Petroleum Prods.	Total
Chemical (including petrochemical)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	0,3	-	-	-	-	6,9	7,1
Transport equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying ⁵	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Food, beverages and tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	0,2	-	-	-	-	-	0,2
Not elsewhere specified (Industry)	-	0,0	-	-	-	-	-	-	-	-	-	-	-	0,0
Transport	-	0,8	627,0	1,1	-	637,7	-	0,4	-	-	-	-	-	1 267,0
International aviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	1,1	-	-	-	-	-	-	-	-	-	1,1
Road	-	0,8	627,0	-	-	626,8	-	-	-	-	-	-	-	1 254,5
Rail	-	-	-	-	-	10,3	-	0,4	-	-	-	-	-	10,7
Domestic navigation	-	-	-	-	-	0,7	-	-	-	-	-	-	-	0,7
Other	-	16,9	0,9	-	0,0	14,1	10,4	0,6	-	-	-	-	-	42,9
Commercial and public services	-	-	-	-	-	-	10,3	0,6	-	-	-	-	-	10,9
Residential	-	16,9	-	-	0,0	-	-	-	-	-	-	-	-	16,9
Agriculture/forestry/fishing	-	-	0,9	-	-	14,1	0,1	-	-	-	-	-	-	15,1
Non-energy use	-	-	-	-	-	-	-	-	-	19,0	95,1	-	1,2	115,3
Energy sector	-	-	-	-	-	-	-	-	-	1,7	-	-	-	1,7

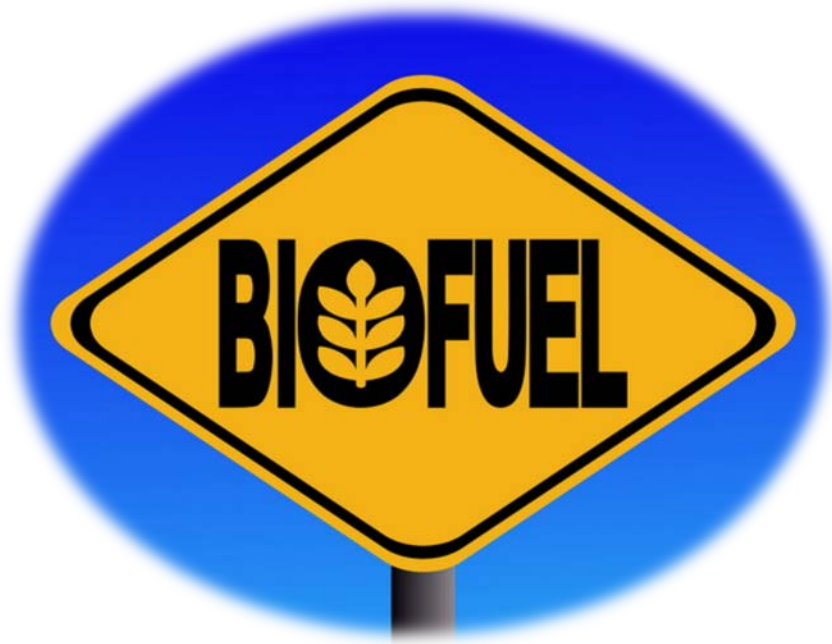
⁵ Including non-ferrous metals

OIL AND OIL PRODUCTS

	Crude Oil	Liquefied Petroleum Gases	Motor Gasoline	Kerosene type Jet Fuel	Kerosene	Road diesel	Heating and other gas oil	Fuel oil-low sulph. (< 1%)	Fuel oil-high sulph. (>=1%)	Lubricants	Bitumen	Paraffin Waxes	Non-specified Petroleum Prods.	Total
Transport sector	-	-	-	-	-	-	-	-	-	15,0	-	-	-	15,0
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-	14,8	-	-	-	14,8
Rail	-	-	-	-	-	-	-	-	-	0,1	-	-	-	0,1
Domestic navigation	-	-	-	-	-	-	-	-	-	0,0	-	-	-	0,0
Industry sector	-	-	-	-	-	-	-	-	-	0,5	95,1	-	1,2	96,8
Iron and steel	-	-	-	-	-	-	-	-	-	0,2	-	-	-	0,2
Chemical (including petrochemical)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	-	-	-	0,2	5,8	-	-	6,0
Mining and quarrying ⁶	-	-	-	-	-	-	-	-	-	-	1,4	-	-	1,4
Food, beverages and tobacco	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-	0,1	87,9	-	-	88,0
Not elsewhere specified (Industry)	-	-	-	-	-	-	-	-	-	0,0	-	-	1,2	1,3
Other sectors	-	-	-	-	-	-	-	-	-	1,9	-	-	-	1,9
Agriculture/forestry/fishing	-	-	-	-	-	-	-	-	-	1,9	-	-	-	1,9
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-	-	-	-

⁶ Including non-ferrous metals

BIOFUEL AND WASTE



SUPPLY AND CONSUMPTION OF BIOFUEL AND WASTE IN PHYSICAL UNITS, 2016

	Fuel wood (1000 m ³)	Pellets, briquettes, other solid fuels (1000 t)	Other vegetal materials and residual (1000 t)	Charcoal (1000 t)
Production	2 052,2	-	28,1	0,3
Imports	-	-	-	0,3
Exports	7,0	-	-	-
Stock Changes	-	-	-	-0,1
DOMESTIC SUPPLY	2 045,2	0,0	28,1	0,5
Transfers	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0
FINAL CONSUMPTION	2 045,2	0,0	28,1	0,5
Industry	8,1	-	-	-
Iron and steel	-	-	-	-
Non-metallic minerals	-	-	-	-
Food, beverages and tobacco	8,1	-	-	-
Not elsewhere specified (Industry)	-	-	-	-
Other	2 037,1	-	28,1	0,5
Commercial and public services	21,4	-	1,7	0,5
Residential	2 015,7	-	26,4	0,0
Agriculture/forestry/fishing	0,0	-	-	-

SUPPLY AND CONSUMPTION OF BIOFUEL AND WASTE, 2016

(TJ)

	Fuel wood	Pellets, briquettes, other solid fuels	Other vegetal materials and residual	Charcoal	Total
Production	16 007,2	-	224,8	9,2	16 241,2
Imports	-	-	-	8,0	8,0
Exports	54,6	-	-	-	54,6
Stock Changes	-	-	-	-3,1	-3,1
DOMESTIC SUPPLY	15 952,6	0,0	224,8	14,2	16 191,5
Available	15 952,6	0,0	224,8	14,2	16 191,5
Transfers	-	-	-	-	-
Statistical Differences	-0,0	0,0	0,0	0,0	-0,0
FINAL CONSUMPTION	15 952,6	0,0	224,8	14,2	16 191,5
Industry	63,2	-	-	-	63,2
Iron and steel	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-
Food, beverages and tobacco	63,2	-	-	-	63,2
Not elsewhere specified (Industry)	-	-	-	-	-
Other	15 889,5	-	224,8	14,2	16 128,4
Commercial and public services	166,7	-	13,6	14,2	194,5
Residential	15 722,5	-	211,2	0,0	15 933,7
Agriculture/forestry/fishing	0,3	-	-	-	0,3

SUPPLY AND CONSUMPTION OF BIOFUEL AND WASTE, 2016

(Thousand tonnes of oil equivalent)

	Fuel wood	Pellets, briquettes, other solid fuels	Other vegetal materials and residual	Charcoal	Total
Production	382,3	-	5,4	0,2	387,9
Imports	-	-	-	0,2	0,2
Exports	1,3	-	-	-	1,3
Stock Changes	-	-	-	-0,1	-
DOMESTIC SUPPLY	381,0	-	5,4	0,3	386,7
Available	381,0	-	5,4	0,3	386,7
Transfers	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	0,0
FINAL CONSUMPTION	381,0	-	5,4	0,3	386,7
Industry	1,5	-	-	-	1,5
Iron and steel	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-
Food, beverages and tobacco	1,5	-	-	-	1,5
Not elsewhere specified (Industry)	-	-	-	-	-
Other	379,5	-	5,4	0,3	385,2
Commercial and public services	4,0	-	0,3	0,3	4,6
Residential	375,5	-	5,0	0,0	380,6
Agriculture/forestry/fishing	0,0	-	-	-	-

