



2020
STATISTICAL PUBLICATION

**ENERGY
BALANCE
OF GEORGIA**

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NATIONAL STATISTICS OFFICE OF GEORGIA

ENERGY BALANCE OF GEORGIA

Statistical Publication

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ENERGY BALANCE OF GEORGIA, 2019

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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 2019 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.

2019 Energy Balance, like the previous years' balances, is based on the recommendations drawn up by the International Energy Agency (IEA) and Eurostat and fully complies with international standards.

The publication is based on the declared data of various surveys conducted by the National Statistics Office during 2020. Different types of administrative data as well as expert assessments have been used in order to create the energy balance.

By signing the Community treaty, National Statistics Office of Georgia is implementing requirements regulations and directives of European Parliament and of the council, related energy statistics.

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 2019 the survey covered non-financial corporations and households. 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.

The information derived from the survey allows to determine the energy production, supply and consumption structure by sectors, which is the basis for calculation of energy efficiency in the country.

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	3 716.9 thousand persons (01.01.2020)
Density	65.1 persons/km ² ¹
Capital	Tbilisi
Official languages	Georgian
Currency	Georgian lari (GEL)

1.2 Key economic indicators about Georgia, 2019

Indicators	2019
GDP at current prices, mil. GEL	49 252.7
GDP at constant 2015 prices, mil. GEL	40 298.0
DGP real growth, %	5.0
GDP per capita (at current prices), USD	4 696.2
Unemployment rate, percentage	11.6
CPI (Inflation), Annual Average to the Annual Average	104.9
Foreign Direct Investments, Mil. USD	1 310.8
External Trade (FOB), Mil. USD	3 798.4
Import (CIF), Mil. USD	9 516.9

¹ The controlled area is in use - 57 178.7 km²

1.3 Hydro and Thermal Power Plants operating in Georgia, 2019

	Name	Installed capacity (MW)
Hydro Electricity Plants		
1	Engurhesi	1 300.0
2	Vardnilhesi	220.0
3	Khramhesi 1	112.8
4	Khramhesi 2	110.0
5	Zhinvalhesi	130.0
6	Vartsikhehesi	184.0
7	Rionhesi	51.0
8	Gumatihesi	69.5
9	Lajanurhesi	113.7
10	Dzevrulahesi	80.0
11	Shaorhesi	40.32
12	Zahesi	36.8
13	Ortachalahesi	18.0
14	Atshesi	18.4
15	Chitakhevihesi	21.0
16	Satskhenhesi	14.0
17	Khadorhesi	24.0
18	Larsi hesi	19.0
19	Faravanhesi	87.0
20	Darialihesi	108.0
21	Khelvachaurihesi 1	47.5
22	Shuakhevihesi	178.7
23	Kirnatihesi	51.3
24	Oldenerjihesi	21.4
25	Mestiachalahesi 1	20.0
26	Mestiachalahesi 2	30.0
27	Other Hydro Power Plants (Small Hydro power plants)	236.46
Thermal Electricity Plants		
28	Mtkvari energy	300.0
29	Tbilsresi	270.0
30	Gpower	110.0
31	Gardabani TP 1	231.2
32	Gardabani TP 2	230.0
Wind Power Plant		
33	Kartli Wind Power Plant	20.7

1.4 Small Hydro Power Plants operating in Georgia, 2019

1	Alazanhesi
2	Bzhuzhahesi
3	Abhesi
4	Tetrikhevhesi
5	Sionhesi
6	Ritseulahesi
7	Chalahesi
8	Chkhorhesi
9	Dashbashihesi
10	Mashaverahesi
11	Kabalhesi
12	Kakharetihesi
13	Intsobahesi
14	Kazbegi hesi
15	Energetiki hesi
16	Machakhelahesi
17	Misaktsielhesi
18	Skurhesi
19	Khertvisi hesi
20	Kinkishahesi
21	Achihesi
22	Igoetihesi
23	Sanaliahesi
24	Shaqshaqetihesi
25	Marneulihesi
26	Nabeghlavihesi
27	Kheorhesi
28	Bodornahesi
29	Orohesi
30	Ghoreshahesi
31	Sashualahesi 2

32	Saguramohesi
33	Rustavihesi
34	Sulorhesi
35	Okamihesi
36	Lopotahesi
37	Zvaretihesi
38	Tirifonhesi
39	Pantianihesi
40	Pshavelahesi
41	Khadorhesi-2
42	Khanhesi
43	Racha hesi
44	Dagvahesi
45	Alazanhesi-2
46	Shildahesi
47	Bakhvihesi-3
48	Aragvihesi
49	Akhmetahesi
50	Kazretihesi
51	Pshavelahesi (Stori power)
52	Martkopihesi
53	Algetahesi
54	Debedahesi
55	Maksaniahesi
56	Kintrishahesi
57	Shildahesi 1
58	Kasletihesi 2
59	Jonoulihesi 1
60	Avanihesi
61	Skurdidihihi
62	Aragvihesi 2

Source: Electricity Market Operator (ESCO)

AGGREGATED ENERGY BALANCE OF GEORGIA, 2019

(TJ)

	Coal	Crude Oil	Oil products	Natural Gas	Nucle ar	Hydro	Geother mal, solar, wind, etc.	Biofuel & Waste	Electricity	Heat	Total
Production	260,1	1 490,5	-	346,7	-	32 154,1	1 194,7	10 284,4	-	-	45 730,5
Imports	10 648,9	385,9	60 674,2	96 676,9	-	-	-	-	6 345,7	-	174 731,6
Exports	11,5	-	934,1	-	-	-	-	4,7	1 366,6	-	2 316,8
International Marine Bunkers	-	-	89,5	-	-	-	-	-	-	-	89,5
International Aviation Bunkers	-	-	4 346,1	-	-	-	-	-	-	-	4 346,1
Stock Changes	-787,4	-278,6	939,7	-	-	-	-	-	-	-	-126,4
DOMESTIC SUPPLY	10 110,1	1 597,7	56 244,2	97 023,6	-	32 154,1	1 194,7	10 279,7	4 979,2	-	213 583,4
Available	10 110,1	1 597,7	57 747,7	97 023,6	-	32 154,1	1 194,7	10 279,7	47 663,6	-	-
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical Differences	0,0	0,0	0,2	-	-	-	-	-	0,0	-	0,2
Transformation Sector - Input	-	1 597,7	-	23 987,9	-	32 154,1	304,9	-	-	-	58 044,7
MA Thermal Electricity Plants	-	-	-	23 987,9	-	-	-	-	-	-	23 987,9
MA Hydro Electricity Plants	-	-	-	-	-	32 154,1	-	-	-	-	32 154,1
MA Heat Plants	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	1 597,7	-	-	-	-	-	-	-	-	1 597,8
Wind Plants	-	-	-	-	-	-	304,9	-	-	-	304,9
Transformation Sector - Production	-	-	1 503,5	-	-	-	-	-	42 684,5	-	44 188,0
MA Thermal Electricity Plants	-	-	-	-	-	-	-	-	10 225,4	-	10 225,4
MA Hydro Electricity Plants	-	-	-	-	-	-	-	-	32 154,1	-	32 154,1
MA Heat Plants	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	1 503,5	-	-	-	-	-	-	1 503,5
Wind Plants	-	-	-	-	-	-	-	-	304,9	-	304,9

ENERGY BALANCE OF GEORGIA, 2019

	Coal	Crude Oil	Oil products	Natural Gas	Nucle ar	Hydro	Geother mal, solar, wind, etc.	Biofuel & Waste	Electricity	Heat	Total
Energy Sector	6,1	-	-	-	-	-	-	-	944,5	-	950,6
Coal Mines	6,1	-	-	-	-	-	-	-	38,5	-	44,6
Oil and Gas Extraction	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-	-	-
Own Use in Thermal Electricity Plants	-	-	-	-	-	-	-	-	444,6	-	444,6
Own Use in Hydro Electricity Plants	-	-	-	-	-	-	-	-	461,2	-	461,2
Used for Pumped Storage	-	-	-	-	-	-	-	-	-	-	-
Non-specified (Energy)	-	-	-	-	-	-	-	-	0,2	-	0,2
Losses	-	-	-	3 131,1	-	-	80,2	-	3 305,5	-	6 516,9
FINAL CONSUMPTION	10 103,9	-	57 747,6	69 904,6	-	-	809,6	10 279,7	43 413,6	-	192 259,0
Industry	10 089,8	-	4 332,1	4 493,3	-	-	-	46,1	11 710,2	-	30 671,6
Iron and steel	4 211,6	-	12,4	697,0	-	-	-	-	6 548,0	-	11 469,0
Chemical (including petrochemical)	-	-	0,5	141,5	-	-	-	-	1 231,2	-	1 373,2
Non-ferrous metals	-	-	-	...	-	-	-	-	...	-	-
Non-metallic minerals	5 634,6	-	0,9	1 167,6	-	-	-	0,8	1 064,2	-	7 868,1
Transport equipment	-	-	-	7,1	-	-	-	-	24,8	-	31,9
Machinery	-	-	0,0	28,2	-	-	-	-	49,7	-	78,0
Mining and quarrying ¹	0,7	-	990,0	74,3	-	-	-	-	453,6	-	1 518,6
Food, beverages and tobacco	242,9	-	3,4	1 394,0	-	-	-	41,3	925,2	-	2 606,9
Paper, pulp and printing	-	-	-	106,1	-	-	-	-	63,7	-	169,9
Wood and wood products	-	-	-	7,1	-	-	-	3,9	22,0	-	32,9
Construction	-	-	3 320,2	760,7	-	-	-	0,1	447,1	-	4 528,1

¹ Including non-ferrous metals

ENERGY BALANCE OF GEORGIA, 2019

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind, etc.	Biofuel & Waste	Electricity	Heat	Total
Textiles and leather	-	-	-	35,4	-	-	-	-	44,6	-	80,0
Not elsewhere specified (Industry)	-	-	4,6	74,3	-	-	-	-	836,1	-	915,0
Transport	-	-	45 211,3	12 055,6	-	-	-	9,9	1 508,0	-	58 784,9
International aviation	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	25,8	-	-	-	-	-	-	-	25,8
Road	-	-	44 489,6	6 766,1	-	-	-	9,9	-	-	51 265,7
Rail	-	-	423,3	-	-	-	-	-	1 409,0	-	1 832,3
Domestic navigation	-	-	17,0	-	-	-	-	-	-	-	17,0
Pipeline transport	-	-	255,6	5 289,4	-	-	-	-	80,3	-	5 625,3
Not elsewhere specified (Transport)	-	-	-	-	-	-	-	-	18,7	-	18,7
Other	14,1	-	959,2	43 212,1	-	-	809,6	10 223,7	30 195,4	-	85 414,0
Commercial and public services	0,3	-	43,3	8 125,4	-	-	498,1	126,4	13 628,9	-	22 422,3
Residential	9,5	-	441,6	34 778,9	-	-	268,9	10 097,3	8 859,6	-	54 455,8
Agriculture/forestry/fishing	4,4	-	474,3	307,8	-	-	42,6	0,0	291,2	-	1 120,4
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	7 415,6	-	7 415,6
Non-energy use	-	-	7 244,9	10 143,6	-	-	-	-	-	-	17 388,5
Transformation sector	-	-	-	-	-	-	-	-	-	-	-
Energy sector	-	-	34,2	-	-	-	-	-	-	-	34,2
Transport sector	-	-	606,2	-	-	-	-	-	-	-	606,2
International aviation	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	600,9	-	-	-	-	-	-	-	600,9
Rail	-	-	5,3	-	-	-	-	-	-	-	5,3
Domestic navigation	-	-	-	-	-	-	-	-	-	-	-

ENERGY BALANCE OF GEORGIA, 2019

	Coal	Crude Oil	Oil products	Natural Gas	Nucle ar	Hydro	Geother mal, solar, wind, etc.	Biofuel & Waste	Electricity	Heat	Total
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Transport)	-	-	-	-	-	-	-	-	-	-	-
Industry sector	-	-	6 587,0	10 143,6	-	-	-	-	-	-	16 730,6
Iron and steel	-	-	6,8	-	-	-	-	-	-	-	6,8
Chemical (including petrochemical)	-	-	37,2	10 143,6	-	-	-	-	-	-	10 180,8
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	684,0	-	-	-	-	-	-	-	684,0
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	0,0	-	-	-	-	-	-	-	0,0
Mining and quarrying ²	-	-	94,6	-	-	-	-	-	-	-	94,6
Food, beverages and tobacco	-	-	3,8	-	-	-	-	-	-	-	3,8
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	5 747,4	-	-	-	-	-	-	-	5 747,4
Textiles and leather	-	-	0,0	-	-	-	-	-	-	-	0,0
Not elsewhere specified (Industry)	-	-	13,1	-	-	-	-	-	-	-	13,1
Other sectors	-	-	17,5	-	-	-	-	-	-	-	17,5
Commercial and public services	-	-	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-	-	-
Agriculture/forestry/fishing	-	-	17,5	-	-	-	-	-	-	-	17,5
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-

² Including non-ferrous metals

AGGREGATED ENERGY BALANCE OF GEORGIA, 2019

(Thousand tonnes of oil equivalent)

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind etc.	Biofuel & Waste	Electricity	Heat	Total
Production	6,2	35,6	-	8,3	-	768,0	28,5	245,6	-	-	1 092,3
Imports	254,3	9,2	1 449,2	2 309,1	-	-	-	-	151,6	-	4 173,4
Exports	0,3	-	22,3	-	-	-	-	0,1	32,6	-	55,3
International Marine Bunkers	-	-	2,1	-	-	-	-	-	-	-	2,1
International Aviation Bunkers	-	-	103,8	-	-	-	-	-	-	-	103,8
Stock Changes	-18,8	-6,7	22,4	-	-	-	-	-	-	-	-3,0
DOMESTIC SUPPLY	241,5	38,2	1 343,4	2 317,4	-	768,0	28,5	245,5	118,9	-	5 101,4
Available	241,5	38,2	1 379,3	2 317,4	-	768,0	28,5	245,5	1 138,4	-	-
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	-	-	-	-	0,0	-	0,0
Transformation Sector - Input	-	38,2	-	572,9	-	768,0	7,3	-	-	-	1 386,4
MA Thermal Electricity Plants	-	-	-	572,9	-	-	-	-	-	-	572,9
MA Hydro Electricity Plants	-	-	-	-	-	768,0	-	-	-	-	768,0
MA Heat Plants	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	38,2	-	-	-	-	-	-	-	-	38,2
Wind Plants	-	-	-	-	-	-	7,3	-	-	-	7,3
Transformation Sector – Production	-	-	35,9	-	-	-	-	-	1 019,5	-	1 055,4
MA Thermal Electricity Plants	-	-	-	-	-	-	-	-	244,2	-	244,2
MA Hydro Electricity Plants	-	-	-	-	-	-	-	-	768,0	-	768,0
MA Heat Plants	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	35,9	-	-	-	-	-	-	-	35,9
Wind Plants	-	-	-	-	-	-	-	-	7,3	-	7,3

ENERGY BALANCE OF GEORGIA, 2019

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind etc.	Biofuel & Waste	Electricity	Heat	Total
Energy Sector	0,1	-	-	-	-	-	-	-	22,6	-	22,7
Coal Mines	0,1	-	-	-	-	-	-	-	0,9	-	1,0
Oil and Gas Extraction	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-	-	-
Own Use in Thermal Electricity Plants	-	-	-	-	-	-	-	-	10,6	-	10,6
Own Use in Hydro Electricity Plants	-	-	-	-	-	-	-	-	11,0	-	11,0
Used for Pumped Storage	-	-	-	-	-	-	-	-	-	-	-
Non-specified (Energy)	-	-	-	-	-	-	-	-	0,0	-	0,0
Losses	-	-	-	74,8	-	-	1,9	-	79,0	-	155,7
FINAL CONSUMPTION	241,3	-	1 379,3	1 669,6	-	-	19,3	245,5	1 036,9	-	4 592,0
Industry	241,0	-	103,5	107,3	-	-	-	1,1	279,7	-	732,6
Iron and steel	100,6	-	0,3	16,6	-	-	-	-	156,4	-	273,9
Chemical (including petrochemical)	-	-	0,0	3,4	-	-	-	-	29,4	-	32,8
Non-ferrous metals	-	-	-	...	-	-	-	-	...	-	-
Non-metallic minerals	134,6	-	0,0	27,9	-	-	-	0,0	25,4	-	187,9
Transport equipment	-	-	-	0,2	-	-	-	-	0,6	-	0,8
Machinery	-	-	0,0	0,7	-	-	-	-	1,2	-	1,9
Mining and quarrying ³	0,0	-	23,6	1,8	-	-	-	-	10,8	-	36,3
Food, beverages and tobacco	5,8	-	0,1	33,3	-	-	-	1,0	22,1	-	62,3
Paper, pulp and printing	-	-	-	2,5	-	-	-	-	1,5	-	4,0
Wood and wood products	-	-	-	0,2	-	-	-	0,1	0,5	-	0,8
Construction	-	-	79,3	18,2	-	-	-	0,0	10,7	-	108,2
Textiles and leather	-	-	-	0,8	-	-	-	-	1,1	-	1,9

³ Including non-ferrous metals

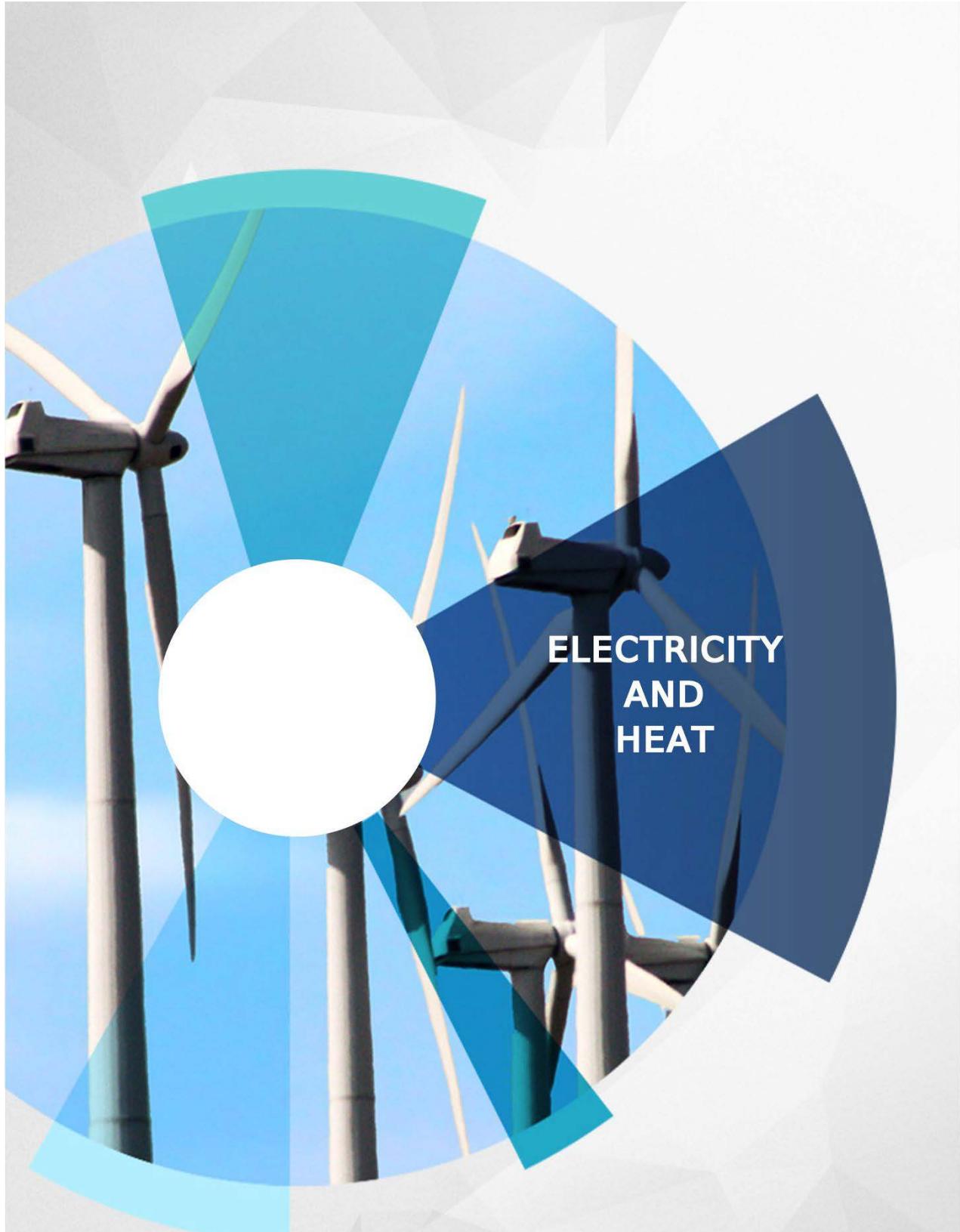
ENERGY BALANCE OF GEORGIA, 2019

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind etc.	Biofuel & Waste	Electricity	Heat	Total
Not elsewhere specified (Industry)	-	-	0,1	1,8	-	-	-	-	20,0	-	21,9
Transport	-	-	1 079,9	287,9	-	-	-	0,2	36,0	-	1 404,1
International aviation	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	0,6	-	-	-	-	-	-	-	0,6
Road	-	-	1 062,6	161,6	-	-	-	0,2	-	-	1 224,5
Rail	-	-	10,1	-	-	-	-	-	33,7	-	43,8
Domestic navigation	-	-	0,4	-	-	-	-	-	-	-	0,4
Pipeline transport	-	-	6,1	126,3	-	-	-	-	1,9	-	134,4
Not elsewhere specified (Transport)	-	-	-	-	-	-	-	-	0,4	-	0,4
Other	0,3	-	22,9	1 032,1	-	-	19,3	244,2	721,2	-	2 040,1
Commercial and public services	0,0	-	1,0	194,1	-	-	11,9	3,0	325,5	-	535,5
Residential	0,2	-	10,5	830,7	-	-	6,4	241,2	211,6	-	1 300,7
Agriculture/forestry/fishing	0,1	-	11,3	7,3	-	-	1,0	0,0	7,0	-	26,8
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	177,1	-	177,1
Non-energy use	-	-	173,0	242,3	-	-	-	-	-	-	415,3
Transformation sector	-	-	-	-	-	-	-	-	-	-	-
Energy sector	-	-	0,8	-	-	-	-	-	-	-	0,8
Transport sector	-	-	14,5	-	-	-	-	-	-	-	14,5
International aviation	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	14,4	-	-	-	-	-	-	-	14,4
Rail	-	-	0,1	-	-	-	-	-	-	-	0,1
Domestic navigation	-	-	-	-	-	-	-	-	-	-	-
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-

ENERGY BALANCE OF GEORGIA, 2019

	Coal	Crude Oil	Oil products	Natural Gas	Nucle ar	Hydro	Geother mal, solar, wind etc.	Biofuel & Waste	Electricity	Heat	Total
Not elsewhere specified (Transport)	-	-	-	-	-	-	-	-	-	-	-
Industry sector	-	-	157,3	242,3	-	-	-	-	-	-	399,6
Iron and steel	-	-	0,2	-	-	-	-	-	-	-	0,2
Chemical (including petrochemical)	-	-	0,9	242,3	-	-	-	-	-	-	243,2
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	16,3	-	-	-	-	-	-	-	16,3
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	0,0	-	-	-	-	-	-	-	0,0
Mining and quarrying ⁴	-	-	2,3	-	-	-	-	-	-	-	2,3
Food, beverages and tobacco	-	-	0,1	-	-	-	-	-	-	-	0,1
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	137,3	-	-	-	-	-	-	-	137,3
Textiles and leather	-	-	0,0	-	-	-	-	-	-	-	0,0
Not elsewhere specified (Industry)	-	-	0,3	-	-	-	-	-	-	-	0,3
Other sectors	-	-	0,4	-	-	-	-	-	-	-	0,4
Commercial and public services	-	-	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-	-	-
Agriculture/forestry/fishing	-	-	0,4	-	-	-	-	-	-	-	0,4
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-

⁴ Including non-ferrous metals



SUPPLY AND CONSUMPTION OF ELECTRICITY AND HEAT, 2019

	Hydro (GWh)	Wind	Geothermal (TJ)	Solar (TJ)	Electricity (GWh)
Production	8 931,7	84,7	760,0	129,8	11 856,8
Imports	-	-	-	-	1 762,7
Exports	-	-	-	-	379,6
Stock Changes	-	-	-	-	-
DOMESTIC SUPPLY	8 931,7	84,7	760,0	129,8	13 239,9
Transfers	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	0,0
Transformation Sector - Input	8 931,7	84,7	-	-	-
MA Hydro Electricity Plants	8 931,7	-	-	-	-
Wind Plants	-	84,7	-	-	-
Transformation Sector - Production	-	-	-	-	11 856,8
MA Thermal Electricity Plants	-	-	-	-	2 840,4
MA Hydro Electricity Plants	-	-	-	-	8 931,7
Wind Plants	-	-	-	-	84,7
Energy Sector	-	-	-	-	262,4
Coal Mines	-	-	-	-	10,7
Own Use in Thermal Electricity Plants	-	-	-	-	123,5
Own Use in Hydro Electricity Plants	-	-	-	-	128,1
Other	-	-	-	-	0,1
Losses	-	-	80,2	-	918,2
FINAL CONSUMPTION	-	-	679,8	129,8	12 059,3
Industry	-	-	-	-	3 252,8
Iron and steel	-	-	-	-	1 818,9
Chemical (including petrochemical)	-	-	-	-	342,0
Non-ferrous metals	-	-	-	-	...
Non-metallic minerals	-	-	-	-	295,6
Transport equipment	-	-	-	-	6,9
Machinery	-	-	-	-	13,8
Mining and quarrying ¹	-	-	-	-	126,0
Food, beverages and tobacco	-	-	-	-	257,0
Paper, pulp and printing	-	-	-	-	17,7
Wood and wood products	-	-	-	-	6,1
Construction	-	-	-	-	124,2

¹Including non-ferrous metals

ELECTRICITY AND HEAT

	Hydro (GWh)	Wind	Geothermal (TJ)	Solar (TJ)	Electricity (GWh)
Textiles and leather	-	-	-	-	12,4
Not elsewhere specified (Industry)	-	-	-	-	232,2
Transport	-	-	-	-	418,9
Rail	-	-	-	-	391,4
Pipeline transport	-	-	-	-	22,3
Other	-	-	-	-	5,2
Other	-	-	679,8	129,8	8 387,6
Commercial and public services	-	-	372,0	126,1	3 785,8
Residential	-	-	265,2	3,7	2 461,0
Agriculture/forestry/fishing	-	-	42,6	-	80,9
Not elsewhere specified (Other)	-	-	-	-	2 059,9

SUPPLY AND CONSUMPTION OF ELECTRICITY AND HEAT, 2019
(TJ)

	Hydro	Wind	Geothermal	Solar	Electricity	Total
Production	32 154,1	304,9	760,0	129,8	-	33 348,8
Imports	-	-	-	-	6 345,7	6 345,7
Exports	-	-	-	-	1 366,6	1 366,6
Stock Changes	-	-	-	-	-	-
DOMESTIC SUPPLY	32 154,1	304,9	760,0	129,8	4 979,2	38 328,0
Available	32 154,1	304,9	760,0	129,8	47 663,6	-
Transfers	-	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	0,0	0,0
Transformation Sector - Input	32 154,1	304,9	-	-	-	32 459,0
MA Hydro Electricity Plants	32 154,1	-	-	-	-	32 154,1
Wind Plants	-	304,9	-	-	-	304,9
Transformation Sector - Production	-	-	-	-	42 684,5	42 684,5
MA Thermal Electricity Plants	-	-	-	-	10 225,4	10 225,4
MA Hydro Electricity Plants	-	-	-	-	32 154,1	32 154,1
Wind Plants	-	-	-	-	304,9	304,9
Energy Sector	-	-	-	-	944,5	944,5
Coal Mines	-	-	-	-	38,5	38,5
Own Use in Thermal Electricity Plants	-	-	-	-	444,6	444,6
Own Use in Hydro Electricity Plants	-	-	-	-	461,2	461,2
Other	-	-	-	-	0,2	0,2
Losses	-	-	80,2	-	3 305,5	3 385,7
FINAL CONSUMPTION	-	-	679,8	129,8	43 413,6	44 223,2
Industry	-	-	-	-	11 710,2	11 710,2
Iron and steel	-	-	-	-	6 548,0	6 548,0
Chemical (including petrochemical)	-	-	-	-	1 231,2	1 231,2
Non-ferrous metals	-	-	-	-
Non-metallic minerals	-	-	-	-	1 064,2	1 064,2
Transport equipment	-	-	-	-	24,8	24,8
Machinery	-	-	-	-	49,7	49,7
Mining and quarrying ²	-	-	-	-	453,6	453,6
Food, beverages and tobacco	-	-	-	-	925,2	925,2
Paper, pulp and printing	-	-	-	-	63,7	63,7
Wood and wood products	-	-	-	-	22,0	22,0
Construction	-	-	-	-	447,1	447,1

²Including non-ferrous metals

ELECTRICITY AND HEAT

	Hydro	Wind	Geothermal	Solar	Electricity	Total
Textiles and leather	-	-	-	-	44,6	44,6
Not elsewhere specified (Industry)	-	-	-	-	836,1	836,1
Transport	-	-	-	-	1 508,0	1 508,0
Rail	-	-	-	-	1 409,0	1 409,0
Pipeline transport	-	-	-	-	80,3	80,3
Other	-	-	-	-	18,7	18,7
Other	-	-	679,8	129,8	30 195,4	31 005,0
Commercial and public services	-	-	372,0	126,1	13 628,9	14 127,0
Residential	-	-	265,2	3,7	8 859,6	9 128,5
Agriculture/forestry/fishing	-	-	42,6	-	291,2	333,8
Not elsewhere specified (Other)	-	-	-	-	7 415,6	7 415,6

SUPPLY AND CONSUMPTION OF ELECTRICITY AND HEAT, 2019
(thousand tonnes of oil equivalent)

	Hydro	Wind	Geothermal	Solar	Electricity	Total
Production	768,0	7,3	18,2	3,1	-	796,5
Imports	-	-	-	-	151,6	151,6
Exports	-	-	-	-	32,6	32,6
Stock Changes	-	-	-	-	-	-
DOMESTIC SUPPLY	768,0	7,3	18,2	3,1	118,9	915,4
Available	768,0	7,3	18,2	3,1	1 138,4	-
Transfers	-	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	0,0	0,0
Transformation Sector - Input	768,0	7,3	-	-	-	775,3
MA Hydro Electricity Plants	768,0	-	-	-	-	768,0
Wind Plants	-	7,3	-	-	-	7,3
Transformation Sector - Production	-	-	-	-	1 019,5	1 019,5
MA Thermal Electricity Plants	-	-	-	-	244,2	244,2
MA Hydro Electricity Plants	-	-	-	-	768,0	768,0
Wind Plants	-	-	-	-	7,3	7,3
Energy Sector	-	-	-	-	22,6	22,6
Coal Mines	-	-	-	-	0,9	0,9
Own Use in Thermal Electricity Plants	-	-	-	-	10,6	10,6
Own Use in Hydro Electricity Plants	-	-	-	-	11,0	11,0
Other	-	-	-	-	0,0	0,0
Losses	-	-	1,9	-	79,0	80,9
FINAL CONSUMPTION	-	-	16,2	3,1	1 036,9	1 056,3
Industry	-	-	-	-	279,7	279,7
Iron and steel	-	-	-	-	156,4	156,4
Chemical (including petrochemical)	-	-	-	-	29,4	29,4
Non-ferrous metals	-	-	-	-
Non-metallic minerals	-	-	-	-	25,4	25,4
Transport equipment	-	-	-	-	0,6	0,6
Machinery	-	-	-	-	1,2	1,2
Mining and quarrying ³	-	-	-	-	10,8	10,8
Food, beverages and tobacco	-	-	-	-	22,1	22,1
Paper, pulp and printing	-	-	-	-	1,5	1,5
Wood and wood products	-	-	-	-	0,5	0,5
Construction	-	-	-	-	10,7	10,7

³Including non-ferrous metals

ELECTRICITY AND HEAT

	Hydro	Wind	Geothermal	Solar	Electricity	Total
Textiles and leather	-	-	-	-	1,1	1,1
Not elsewhere specified (Industry)	-	-	-	-	20,0	20,0
Transport	-	-	-	-	36,0	36,0
Rail	-	-	-	-	33,7	33,7
Pipeline transport	-	-	-	-	1,9	1,9
Other	-	-	-	-	0,4	0,4
Other	-	-	16,2	3,1	721,2	740,5
Commercial and public services	-	-	8,9	3,0	325,5	337,4
Residential	-	-	6,3	0,1	211,6	218,0
Agriculture/forestry/fishing	-	-	1,0	-	7,0	8,0
Not elsewhere specified (Other)	-	-	-	-	177,1	177,1



SUPPLY AND CONSUMPTION OF NATURAL GAS, 2019

	Natural Gas (mil. m ³)
Production	9,6
Imports	2 685,8
Exports	-
Stock Changes	-
DOMESTIC SUPPLY	2 695,4
Transfers	-
Statistical Differences	0,0
Transformation Sector - Input	666,4
MA Thermal Electricity Plants	666,4
MA Hydro Electricity Plants	-
MA Heat Plants	-
Petroleum Refineries	-
Losses	87,0
FINAL CONSUMPTION	1 942,0
Industry	124,8
Iron and steel	19,4
Chemical (including petrochemical)	3,9
Non-ferrous metals	...
Non-metallic minerals	32,4
Transport equipment	0,2
Machinery	0,8
Mining and quarrying ¹	2,1
Food, beverages and tobacco	38,7
Paper, pulp and printing	2,9
Wood and wood products	0,2
Construction	21,1
Textiles and leather	1,0
Not elsewhere specified (Industry)	2,1
Transport	334,9
Road	188,0
Pipeline transport	146,9
Other	1 200,5
Commercial and public services	225,7

¹ Including non-ferrous metals

NATURAL GAS

	Natural Gas (mil. m ³)
Residential	966,2
Agriculture/forestry/fishing	8,6
other	-
Non-energy use	281,8
Industry sector	281,8
Chemical (including petrochemical)	281,8

The volume of natural gas is at standard conditions of 15°C

SUPPLY AND CONSUMPTION OF NATURAL GAS, 2019
 (TJ)

	Natural Gas
Production	346,7
Imports	96 676,9
Exports	-
Stock Changes	-
DOMESTIC SUPPLY	97 023,6
Available	97 023,6
Transfers	-
Statistical Differences	-
Transformation Sector - Input	23 987,9
MA Thermal Electricity Plants	23 987,9
MA Hydro Electricity Plants	-
MA Heat Plants	-
Petroleum Refineries	-
Losses	3 131,1
FINAL CONSUMPTION	69 904,6
Industry	4 493,3
Iron and steel	697,0
Chemical (including petrochemical)	141,5
Non-ferrous metals	...
Non-metallic minerals	1 167,6
Transport equipment	7,1
Machinery	28,2
Mining and quarrying ²	74,3
Food, beverages and tobacco	1 394,0
Paper, pulp and printing	106,1
Wood and wood products	7,1
Construction	760,7
Textiles and leather	35,4
Not elsewhere specified (Industry)	74,3
Transport	12 055,6
Road	6 766,1
Pipeline transport	5 289,4

² Including non-ferrous metals

NATURAL GAS

	Natural Gas
Other	43 212,1
Commercial and public services	8 125,4
Residential	34 778,9
Agriculture/forestry/fishing	307,8
Not elsewhere specified (Other)	-
Non-energy use	10 143,6
Industry sector	10 143,6
Chemical (including petrochemical)	10 143,6

SUPPLY AND CONSUMPTION OF NATURAL GAS, 2019

(Thousand tonnes of oil equivalent)

	Natural Gas
Production	8,3
Imports	2 309,1
Exports	-
Stock Changes	-
DOMESTIC SUPPLY	2 317,4
Available	2 317,4
Transfers	-
Statistical Differences	0,0
Transformation Sector - Input	572,9
MA Thermal Electricity Plants	572,9
MA Hydro Electricity Plants	-
MA Heat Plants	-
Petroleum Refineries	-
Losses	74,8
FINAL CONSUMPTION	1 669,6
Industry	107,3
Iron and steel	16,6
Chemical (including petrochemical)	3,4
Non-ferrous metals	...
Non-metallic minerals	27,9
Transport equipment	0,2
Machinery	0,7
Mining and quarrying ³	1,8
Food, beverages and tobacco	33,3
Paper, pulp and printing	2,5
Wood and wood products	0,2
Construction	18,2
Textiles and leather	0,8
Not elsewhere specified (Industry)	1,8
Transport	287,9
Road	161,6
Pipeline transport	126,3

³ Including non-ferrous metals

NATURAL GAS

	Natural Gas
Other	1 032,1
Commercial and public services	194,1
Residential	830,7
Agriculture/forestry/fishing	7,3
Not elsewhere specified (Other)	-
Non-energy use	242,3
Industry sector	242,3
Chemical (including petrochemical)	242,3



SUPPLY AND CONSUMPTION OF COAL, 2019

(Thousand tonnes)

	Anthracite	Other Bit. Coal	Lignite/ Brown Coal	Coke Oven Coke
Production	-	-	15,3	-
Imports	12,1	241,9	-	144,9
Exports	-	-	0,7	-
Stock Changes	- 4,9	- 3,9	- 10,9	- 12,3
DOMESTIC SUPPLY	7,2	238,0	3,7	132,6
Transfers	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0
Transformation Sector - Input	-	-	-	-
Coal TP	-	-	-	-
Energy Sector	-	-	0,4	-
Coal Mines	-	-	0,4	-
FINAL CONSUMPTION	7,2	238,0	3,3	132,6
Industry	7,2	237,5	3,3	132,6
Iron and steel	-	10,8	3,3	132,6
Non-metallic minerals	-	225,4	-	-
Mining and quarrying ¹	-	-	0,0	-
Food, beverages and tobacco	7,2	1,3	-	-
Other	0,1	0,5	0,0	-
Commercial and public services	-	0,0	-	-
Residential	0,1	0,3	-	-
Agriculture/forestry/fishing	0,0	0,2	0,0	-

¹Including non-ferrous metals

SUPPLY AND CONSUMPTION OF COAL, 2019

(TJ)

	Anthracite	Other Bit. Coal	Lignite/ Brown Coal	Coke Oven Coke	Total
Production	-	-	260,1	-	260,1
Imports	355,8	6 046,6	-	4 246,4	10 648,9
Exports	-	-	11,5	-	11,5
Stock Changes	-143,6	-97,5	-185,8	-360,5	-787,4
DOMESTIC SUPPLY	212,2	5 949,1	62,8	3 885,9	10 110,1
Available	212,2	5 949,1	62,8	3 885,9	10 110,1
Transfers	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	0,0
Transformation Sector - Input	-	-	-	-	-
Coal TP	-	-	-	-	-
Energy Sector	-	-	6,1	-	6,1
Coal Mines	-	-	6,1	-	6,1
FINAL CONSUMPTION	212,2	5 949,1	56,7	3 885,9	10 103,9
Industry	210,4	5 937,1	56,4	3 885,9	10 089,8
Iron and steel	-	270,0	55,7	3 885,9	4 211,6
Non-metallic minerals	-	5 634,6	-	-	5 634,6
Mining and quarrying ²	-	-	0,7	-	0,7
Food, beverages and tobacco	210,4	32,5	-	-	242,9
Other	1,8	12,0	0,3	-	14,1
Commercial and public services	-	0,3	-	-	0,3
Residential	1,5	8,0	-	-	9,5
Agriculture/forestry/fishing	0,3	3,8	0,3	-	4,4

²Including non-ferrous metals

SUPPLY AND CONSUMPTION OF COAL, 2019

(Thousand tonnes of oil equivalent)

	Anthracite	Other Bit. Coal	Lignite/ Brown Coal	Coke Oven Coke	Total
Production	-	-	6,2	-	6,2
Imports	8,5	144,4	-	101,4	254,3
Exports	-	-	0,3	-	0,3
Stock Changes	-3,4	-2,3	-4,4	-8,6	-18,8
Domestic Supply	5,1	142,1	1,5	92,8	241,5
Available	5,1	142,1	1,5	92,8	241,5
Transfers	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	0,0
Transformation Sector - Input	-	-	-	-	-
Coal TP	-	-	-	-	-
Energy Sector	-	-	0,1	-	0,1
Coal Mines	-	-	0,1	-	0,1
FINAL CONSUMPTION	5,1	142,1	1,4	92,8	241,3
Industry	5,0	141,8	1,3	92,8	241,0
Iron and steel	-	6,4	1,3	92,8	100,6
Non-metallic minerals	-	134,6	-	-	134,6
Mining and quarrying ³	-	-	0,0	-	0,0
Food, beverages and tobacco	5,0	0,8	-	-	5,8
Other	0,0	0,3	0,0	-	0,3
Commercial and public services	-	0,0	-	-	0,0
Residential	0,0	0,2	-	-	0,2
Agriculture/forestry/fishing	0,0	0,1	0,0	-	0,1

³Including non-ferrous metals



OIL AND OIL PRODUCTS

SUPPLY AND CONSUMPTION OF OIL AND OIL PRODUCTS, 2019

	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	35,1	-	-	-	-	-	-	-	-	-	-	-	-
Imports	9,1	28,3	544,5	102,1	-	534,6	18,1	0,3	-	23,8	170,9	-	2,0
Exports	-	0,2	0,4	-	-	0,3	-	15,5	-	5,3	0,0	-	1,8
International Marine Bunkers	-	-	-	-	-	2,1	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	101,1	-	-	-	-	-	-	-	-	-
Stock Changes	-6,6	-0,5	4,9	-0,4	-	20,5	-	-0,1	-	0,0	0,0	-	-2,9
DOMESTIC SUPPLY	37,6	27,6	548,9	0,6	-	552,7	18,1	-15,2	-	18,5	170,8	-	-2,7
Transfers	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	-	0,0	0,0	0,0	-	0,0	0,0	-	0,0
Transformation Sector - Input	37,6	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	37,6	-	-	-	-	-	-	-	-	-	-	-	-
Transformation Sector - Production	-	-	1,4	-	-	15,5	-	15,7	-	-	-	-	4,0
Petroleum Refineries	-	-	1,4	-	-	15,1	-	15,7	-	-	-	-	4,0
FINAL CONSUMPTION	-	27,6	550,3	0,6	-	568,2	18,1	0,4	-	18,5	170,8	-	1,3
Industry	-	0,3	-	-	-	100,7	0,5	0,2	-	-	-	-	-
Iron and steel	-	0,0	-	-	-	-	0,3	-	-	-	-	-	-
Chemical (including petrochemical)	-	0,0	-	-	-	-	0,0	-	-	-	-	-	-
Non-ferrous metals	-	...	-	-	-	...	-	-	-	-	-	-	-
Non-metallic minerals	-	0,0	-	-	-	-	0,0	-	-	-	-	-	-
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)
Machinery	-	0,0	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying ¹	-	0,0	-	-	-	23,2	0,0	-	-	-	-	-	-
Food, beverages and tobacco	-	0,0	-	-	-	-	0,0	0,0	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	0,1	-	-	-	77,5	0,2	0,1	-	-	-	-	-
Textiles and leather	-	-	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Industry)	-	0,1	-	-	-	-	0,0	-	-	-	-	-	-
Transport	-	17,3	549,4	0,6	-	458,3	16,1	0,3	-	-	-	-	-
International aviation	-	-	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	0,6	-	-	-	-	-	-	-	-	-
Road	-	17,3	549,4	-	-	458,3	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	9,7	0,3	-	-	-	-	-
Domestic navigation	-	-	-	-	-	-	0,4	-	-	-	-	-	-
Pipeline transport	-	-	-	-	-	-	6,0	-	-	-	-	-	-
Other	-	10,1	0,9	-	-	9,2	1,5	-	-	-	-	-	-
Commercial and public services	-	0,2	-	-	-	-	0,8	-	-	-	-	-	-
Residential	-	9,6	-	-	-	-	-	-	-	-	-	-	-
Agriculture/forestry/fishing	-	0,3	0,9	-	-	9,2	0,7	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-	18,5	170,8	-	1,3
Energy sector	-	-	-	-	-	-	-	-	-	0,9	-	-	-
Transport sector	-	-	-	-	-	-	-	-	-	16,0	-	-	-

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 aviation	-	-	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-	15,8	-	-	-
Rail	-	-	-	-	-	-	-	-	-	0,1	-	-	-
Domestic navigation	-	-	-	-	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-	1,2	170,8	-	1,3
Iron and steel	-	-	-	-	-	-	-	-	-	0,2	-	-	-
Chemical (including petrochemical)	-	-	-	-	-	-	-	-	-	0,0	-	-	1,0
Non-metallic minerals	-	-	-	-	-	-	-	-	-	0,2	17,8	-	-
Machinery	-	-	-	-	-	-	-	-	-	0,0	-	-	-
Mining and quarrying ²	-	-	-	-	-	-	-	-	-	0,6	1,9	-	-
Food, beverages and tobacco	-	-	-	-	-	-	-	-	-	0,1	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-	0,1	151,1	-	-
Textiles and leather	-	-	-	-	-	-	-	-	-	0,0	-	-	-
Not elsewhere specified (Industry)	-	-	-	-	-	-	-	-	-	0,0	-	-	0,3
Other sectors	-	-	-	-	-	-	-	-	-	0,5	-	-	-
Agriculture/forestry/fishing	-	-	-	-	-	-	-	-	-	0,5	-	-	-
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-	-	-

² Including non-ferrous metals

OIL AND OIL PRODUCTS

SUPPLY AND CONSUMPTION OF OIL AND OIL PRODUCTS, 2019

(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	1 490,5	-	-	-	-	-	-	-	-	-	-	-	-	1 490,5
Imports	385,9	1 303,0	23 956,2	4 389,1	-	22 773,8	770,6	10,7	-	903,2	6 492,5	-	75,1	61 060,1
Exports	-	10,0	19,6	-	-	13,1	-	621,5	-	200,8	0,6	-	68,4	934,1
International Marine Bunkers	-	-	-	-	-	89,5	-	-	-	-	-	-	-	89,5
International Aviation Bunkers	-	-	-	4 346,1	-	-	-	-	-	-	-	-	-	4 346,1
Stock Changes	-278,6	-22,1	215,6	-17,2	-	873,3	-	-2,0	-	0,0	0,4	-	-108,3	661,1
DOMESTIC SUPPLY	1 597,7	1 270,9	24 152,2	25,8	-	23 544,5	770,6	-612,8	-	702,4	6 492,2	-	-101,7	57 842,0
Available	1 597,7	1 270,9	24 214,3	25,8	-	24 204,2	770,6	16,9	-	702,4	6 492,2	-	50,4	59 345,5
Transfers	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Differences	0,0	0,0	0,1	0,0	-	0,1	0,0	-0,0	-	0,0	0,0	-	0,0	0,2
Transformation Sector - Input	1 597,7	-	-	-	-	-	-	-	-	-	-	-	-	1 597,7
Petroleum Refineries	1 597,7	-	-	-	-	-	-	-	-	-	-	-	-	1 597,7
Transformation Sector - Production	-	-	62,1	-	-	659,7	-	629,7	-	-	-	-	152,0	1 503,5
Petroleum Refineries	-	-	62,1	-	-	659,7	-	629,7	-	-	-	-	152,0	1 503,5
FINAL CONSUMPTION	-	1 270,9	24 214,3	25,8	-	24 204,1	770,6	16,9	-	702,4	6 492,2	-	50,4	57 747,6
Industry	-	12,4	-	-	-	4 289,8	23,0	6,8	-	-	-	-	-	4 332,1
Iron and steel	-	0,5	-	-	-	-	11,9	-	-	-	-	-	-	12,4
Chemical (including petrochemical)	-	0,5	-	-	-	-	0,0	-	-	-	-	-	-	0,5
Non-ferrous metals	-	...	-	-	-	...	-	-	-	-	-	-	-	-
Non-metallic minerals	-	0,9	-	-	-	-	0,0	-	-	-	-	-	-	0,9
Transport equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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
Machinery	-	0,0	-	-	-	-	-	-	-	-	-	-	-	0,0
Mining and quarrying ³	-	0,0	-	-	-	988,3	1,7	-	-	-	-	-	-	990,0
Food, beverages and tobacco	-	1,4	-	-	-	-	0,9	1,2	-	-	-	-	-	3,4
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	4,6	-	-	-	3 301,5	8,5	5,6	-	-	-	-	-	3 320,2
Textiles and leather	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Industry)	-	4,6	-	-	-	-	0,0	-	-	-	-	-	-	4,6
Transport	-	793,9	24 173,3	25,8	-	19 522,4	685,9	10,0	-	-	-	-	-	45 211,3
International aviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	25,8	-	-	-	-	-	-	-	-	-	25,8
Road	-	793,9	24 173,3	-	-	19 522,4	-	-	-	-	-	-	-	44 489,6
Rail	-	-	-	-	-	-	413,2	10,0	-	-	-	-	-	423,3
Domestic navigation	-	-	-	-	-	-	17,0	-	-	-	-	-	-	17,0
Pipeline transport	-	-	-	-	-	-	255,6	-	-	-	-	-	-	255,6
Other	-	464,6	40,9	-	-	391,9	61,8	-	-	-	-	-	-	959,2
Commercial and public services	-	9,2	-	-	-	-	34,1	-	-	-	-	-	-	43,3
Residential	-	441,6	-	-	-	-	-	-	-	-	-	-	-	441,6
Agriculture/forestry/fishing	-	13,8	40,9	-	-	391,9	27,7	-	-	-	-	-	-	474,3
Non-energy use	-	-	-	-	-	-	-	-	-	702,4	6 492,2	-	50,4	7 244,9
Energy sector	-	-	-	-	-	-	-	-	-	34,2	-	-	-	34,2
Transport sector	-	-	-	-	-	-	-	-	-	606,2	-	-	-	606,2
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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
Road	-	-	-	-	-	-	-	-	-	600,9	-	-	-	600,9
Rail	-	-	-	-	-	-	-	-	-	5,3	-	-	-	5,3
Domestic navigation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-	44,5	6 492,2	-	50,4	6 587,0
Iron and steel	-	-	-	-	-	-	-	-	-	6,8	-	-	-	6,8
Chemical (including petrochemical)	-	-	-	-	-	-	-	-	-	0,0	-	-	37,2	37,2
Non-metallic minerals	-	-	-	-	-	-	-	-	-	7,6	676,4	-	-	684,0
Machinery	-	-	-	-	-	-	-	-	-	0,0	-	-	-	0,0
Mining and quarrying ⁴	-	-	-	-	-	-	-	-	-	22,4	72,2	-	-	94,6
Food, beverages and tobacco	-	-	-	-	-	-	-	-	-	3,8	-	-	-	3,8
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-	3,8	5 743,6	-	-	5 747,4
Textiles and leather	-	-	-	-	-	-	-	-	-	0,0	-	-	-	0,0
Not elsewhere specified (Industry)	-	-	-	-	-	-	-	-	-	0,0	-	-	13,1	13,1
Other sectors	-	-	-	-	-	-	-	-	-	17,5	-	-	-	17,5
Agriculture/forestry/fishing	-	-	-	-	-	-	-	-	-	17,5	-	-	-	17,5
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-	-	-	-

⁴ Including non-ferrous metals

OIL AND OIL PRODUCTS

SUPPLY AND CONSUMPTION OF OIL AND OIL PRODUCTS, 2019

(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	35,6	-	-	-	-	-	-	-	-	-	-	-	-	35,6
Imports	9,2	31,1	572,2	104,8	-	543,9	18,4	0,3	-	21,6	155,1	-	1,8	1 458,4
Exports	-	0,2	0,5	-	-	0,3	-	14,8	-	4,8	0,0	-	1,6	22,3
International Marine Bunkers	-	-	-	-	-	2,1	-	-	-	-	-	-	-	2,1
International Aviation Bunkers	-	-	-	-	103,8	-	-	-	-	-	-	-	-	103,8
Stock Changes	-6,7	-0,5	5,1	-0,4	-	20,9	-	0,0	-	0,0	0,0	-	-2,6	15,8
DOMESTIC SUPPLY	38,2	30,4	576,9	0,6	-	562,4	18,4	-14,6	-	16,8	155,1	-	-2,4	1 381,5
Available	38,2	30,4	578,3	0,6	-	578,1	18,4	0,4	-	16,8	155,1	-	1,2	1 417,4
Transfers	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	38,2	-	-	-	-	-	-	-	-	-	-	-	-	38,2
Petroleum Refineries	38,2	-	-	-	-	-	-	-	-	-	-	-	-	38,2
Transformation Sector - Production	-	-	1,5	-	-	15,8	-	15,0	-	-	-	-	3,6	35,9
Petroleum Refineries	-	-	1,5	-	-	15,8	-	15,0	-	-	-	-	3,6	35,9
FINAL CONSUMPTION	-	30,4	578,3	0,6	-	578,1	18,4	0,4	-	16,8	155,1	-	1,2	1 379,3
Industry	-	0,3	-	-	-	102,5	0,5	0,2	-	-	-	-	-	103,5
Iron and steel	-	0,0	-	-	-	-	0,3	-	-	-	-	-	-	0,3
Chemical (including petrochemical)	-	0,0	-	-	-	-	0,0	-	-	-	-	-	-	0,0
Non-ferrous metals	-	...	-	-	-	...	-	-	-	-	-	-	-	-
Non-metallic minerals	-	0,0	-	-	-	-	0,0	-	-	-	-	-	-	0,0
Transport equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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
Machinery	-	0,0	-	-	-	-	-	-	-	-	-	-	-	0,0
Mining and quarrying ⁵	-	0,0	-	-	-	23,6	0,0	-	-	-	-	-	-	23,6
Food, beverages and tobacco	-	0,0	-	-	-	-	0,0	0,0	-	-	-	-	-	0,1
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	0,1	-	-	-	78,9	0,2	0,1	-	-	-	-	-	79,3
Textiles and leather	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Industry)	-	0,1	-	-	-	-	0,0	-	-	-	-	-	-	0,1
Transport	-	19,0	577,4	0,6	-	466,3	16,4	0,2	-	-	-	-	-	1 079,9
International aviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	-	0,6	-	-	-	-	-	-	-	-	0,6
Road	-	19,0	577,4	-	-	466,3	-	-	-	-	-	-	-	1 062,6
Rail	-	-	-	-	-	-	9,9	0,2	-	-	-	-	-	10,1
Domestic navigation	-	-	-	-	-	-	0,4	-	-	-	-	-	-	0,4
Pipeline transport	-	-	-	-	-	-	6,1	-	-	-	-	-	-	6,1
Other	-	11,1	1,0	-	-	9,4	1,5	-	-	-	-	-	-	22,9
Commercial and public services	-	0,2	-	-	-	-	0,8	-	-	-	-	-	-	1,0
Residential	-	10,5	-	-	-	-	-	-	-	-	-	-	-	10,5
Agriculture/forestry/fishing	-	0,3	1,0	-	-	9,4	0,7	-	-	-	-	-	-	11,3
Non-energy use	-	-	-	-	-	-	-	-	-	16,8	155,1	-	1,2	173,0
Energy sector	-	-	-	-	-	-	-	-	-	0,8	-	-	-	0,8
Transport sector	-	-	-	-	-	-	-	-	-	14,5	-	-	-	14,5
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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
Road	-	-	-	-	-	-	-	-	-	14,4	-	-	-	14,4
Rail	-	-	-	-	-	-	-	-	-	0,1	-	-	-	0,1
Domestic navigation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-	1,1	155,1	-	1,2	157,3
Iron and steel	-	-	-	-	-	-	-	-	-	0,2	-	-	-	0,2
Chemical (including petrochemical)	-	-	-	-	-	-	-	-	-	0,0	-	-	0,9	0,9
Non-metallic minerals	-	-	-	-	-	-	-	-	-	0,2	16,2	-	-	16,3
Machinery	-	-	-	-	-	-	-	-	-	0,0	-	-	-	0,0
Mining and quarrying ⁶	-	-	-	-	-	-	-	-	-	0,5	1,7	-	-	2,3
Food, beverages and tobacco	-	-	-	-	-	-	-	-	-	0,1	-	-	-	0,1
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-	0,1	137,2	-	-	137,3
Textiles and leather	-	-	-	-	-	-	-	-	-	0,0	-	-	-	0,0
Not elsewhere specified (Industry)	-	-	-	-	-	-	-	-	-	0,0	-	-	0,3	0,3
Other sectors	-	-	-	-	-	-	-	-	-	0,4	-	-	-	0,4
Agriculture/forestry/fishing	-	-	-	-	-	-	-	-	-	0,4	-	-	-	0,4
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-	-	-	-

⁶ Including non-ferrous metals



SUPPLY AND CONSUMPTION OF BIOFUEL AND WASTE IN PHYSICAL UNITS, 2019

	Fuel wood (1000 m ³)	Other vegetal materials and residual (1000 t)	Biodiesel (1000 t)	Charcoal (1000 t)
Production	1 295,0	21,1	0,3	0,2
Imports	-	-	-	-
Exports	0,1	-	-	0,1
Stock Changes	-	-	-	-
DOMESTIC SUPPLY	1 294,9	21,1	0,3	0,0
Transfers	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0
FINAL CONSUMPTION	1 294,9	21,1	0,3	0,0
Industry	5,9	-	-	-
Non-metallic minerals	0,1	-	-	-
Food, beverages and tobacco	5,3	-	-	-
Wood and wood products	0,5	-	-	-
Construction	0,0	-	-	-
Transport	-	-	0,3	-
Road	-	-	0,3	-
Other	1 289,0	21,1	-	0,0
Commercial and public services	15,2	0,9	-	0,0
Residential	1 273,8	20,2	-	0,0
Agriculture/forestry/fishing	0,0	0,0	-	0,0

SUPPLY AND CONSUMPTION OF BIOFUEL AND WASTE, 2019

(TJ)

	Fuel wood	Other vegetal materials and residual	Biodiesel (1000 t)	Charcoal	Total
Production	10 100,7	168,8	9,9	5,0	10 284,4
Imports	-	-	-	-	-
Exports	0,4	-	-	4,3	4,7
Stock Changes	-	-	-	-	-
DOMESTIC SUPPLY	10 100,3	168,8	9,9	0,7	10 279,7
Available	10 100,3	168,8	9,9	0,7	10 279,7
Transfers	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	0,0
FINAL CONSUMPTION	10 100,3	168,8	9,9	0,7	10 279,7
Industry	46,1	-	-	-	46,1
Non-metallic minerals	0,8	-	-	-	0,8
Food, beverages and tobacco	41,3	-	-	-	41,3
Wood and wood products	3,9	-	-	-	3,9
Construction	0,1	-	-	-	0,1
Transport	-	-	9,9	-	9,9
Road	-	-	9,9	-	9,9
Other	10 054,2	168,8	-	0,7	10 223,7
Commercial and public services	118,6	7,2	-	0,6	126,4
Residential	9 935,6	161,6	-	0,1	10 097,3
Agriculture/forestry/fishing	0,0	0,0	-	-	0,0

SUPPLY AND CONSUMPTION OF BIOFUEL AND WASTE, 2019

(Thousand tonnes of oil equivalent)

	Fuel wood	Other vegetal materials and residual	Biodiesel	Charcoal	Total
Production	241,3	4,0	0,2	0,1	245,6
Imports	-	-	-	-	-
Exports	0,0	-	-	0,1	0,1
Stock Changes	-	-	-	-	-
DOMESTIC SUPPLY	241,2	4,0	0,2	0,0	245,5
Available	241,2	4,0	0,2	0,0	245,5
Transfers	-	-	-	-	-
Statistical Differences	0,0	0,0	0,0	0,0	0,0
FINAL CONSUMPTION	241,2	-	0,2	0,0	245,5
Industry	1,1	-	-	-	1,1
Non-metallic minerals	0,0	-	-	-	0,0
Food, beverages and tobacco	1,0	-	-	-	1,0
Wood and wood products	0,1	-	-	-	0,1
Construction	0,0	-	-	-	0,0
Transport	-	-	0,2	-	0,2
Road	-	-	0,2	-	0,2
Other	240,1	4,0	-	0,0	244,2
Commercial and public services	2,8	0,2	-	0,0	3,0
Residential	237,3	3,8	-	0,0	241,2
Agriculture/forestry/fishing	0,0	0,0	-	-	0,0

2020