

NATIONAL STATISTICS OFFICE
OF GEORGIA

2022 STATISTICAL PUBLICATION



**ENERGY BALANCE
OF GEORGIA**



NATIONAL STATISTICS OFFICE OF GEORGIA

ENERGY BALANCE OF GEORGIA

Statistical Publication

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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 2021 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.

2021 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 2022. 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 2021 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” – 5 200 m
Population	3 688.6 thousand persons (01.01.2022)
Density	65.2 persons/km ² ¹
Capital	Tbilisi
Official languages	Georgian
Currency	Georgian lari (GEL)

1.2 Key economic indicators about Georgia, 2021

Indicators	2021
GDP at current prices, mil. GEL	60 003.3
GDP at constant 2010 prices, mil. GEL	41 506.0
DGP real growth, percentage	10.5
GDP per capita (at current prices), USD	5 023.2
Unemployment rate, percentage	20.6
CPI (Inflation), Annual Average to the Annual Average	109.6
Foreign Direct Investments, Mil. USD	1 241.8
External Trade (FOB), Mil. USD	4 242.7
Import (CIF), Mil. USD	10 099.8

¹ The controlled area is in use - 57 178.7 km²

1.3 Hydro and Thermal Power Plants operating in Georgia, 2021

	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)	275.78
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, 2021

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	Iparihesi

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

Source: Electricity Market Operator (ESCO)

AGGREGATED ENERGY BALANCE OF GEORGIA, 2021

(TJ)

	Coal	Crude Oil	Oil products	Natural Gas	Nucle ar	Hydro	Geother mal, solar, wind, etc.	Biofuel & Waste	Electricity	Heat	Total
Production	2 513.9	1 507.8	-	576.8	-	36 655.6	1 131.4	9 850.9	-	-	52 236.4
Imports	6 853.9	-	61 103.7	100 354.2	-	-	-	-	11 483.6	-	179 795.4
Exports	24.8	-	1 046.4	-	-	-	-	1.4	5 668.9	-	6 741.5
International Marine Bunkers	-	-	122.6	-	-	-	-	-	-	-	122.6
International Aviation Bunkers	-	-	4 059.9	-	-	-	-	-	-	-	4 059.9
Stock Changes	56.8	-25.9	278.0	-	-	-	-	-	-	-	308.9
DOMESTIC SUPPLY	9 399.9	1 481.9	56 152.9	100 930.9	-	36 655.6	1 131.4	9 849.5	5 814.7	-	221 416.8
Available	9 399.9	1 481.9	58 242.7	100 930.9	-	36 655.6	1 131.4	9 849.5	51 337.1	-	-
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical Differences	0.0	-655.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	-655.0
Transformation Sector - Input	-	2 136.9	-	17 553.5	-	36 655.6	300.2	-	-	-	56 646.2
MA Thermal Electricity Plants	-	-	-	17 553.5	-	-	-	-	-	-	17 553.5
MA Hydro Electricity Plants	-	-	-	-	-	36 655.6	-	-	-	-	36 655.6
MA Heat Plants	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	2 136.9	-	-	-	-	-	-	-	-	2 136.9
Wind Plants	-	-	-	-	-	-	300.2	-	-	-	300.2
Transformation Sector - Production	-	-	2 089.9	-	-	-	-	-	45 522.4	-	47 612.2
MA Thermal Electricity Plants	-	-	-	-	-	-	-	-	8 566.6	-	8 566.6
MA Hydro Electricity Plants	-	-	-	-	-	-	-	-	36 655.6	-	36 655.6
MA Heat Plants	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	2 089.9	-	-	-	-	-	-	2 089.9
Wind Plants	-	-	-	-	-	-	-	-	300.2	-	300.2

ENERGY BALANCE OF GEORGIA, 2021

	Coal	Crude Oil	Oil products	Natural Gas	Nucle ar	Hydro	Geother mal, solar, wind, etc.	Biofuel & Waste	Electricity	Heat	Total
Energy Sector	11.7	-	-	-	-	-	-	-	900.7	-	912.5
Coal Mines	11.7	-	-	-	-	-	-	-	48.2	-	60.0
Oil and Gas Extraction	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-	-	-
Own Use in Thermal Electricity Plants	-	-	-	-	-	-	-	-	343.4	-	343.4
Own Use in Hydro Electricity Plants	-	-	-	-	-	-	-	-	509.0	-	509.0
Used for Pumped Storage	-	-	-	-	-	-	-	-	-	-	-
Non-specified (Energy)	-	-	-	-	-	-	-	-	0.0	-	0.0
Losses	-	-	-	3 153.5	-	-	62.2	-	3 209.4	-	6 425.1
FINAL CONSUMPTION	9 388.1	-	58 242.7	80 223.9	-	-	769.0	9 849.5	47 227.0	-	205 700.2
Industry	9 384.6	-	4 201.6	8 158.0	-	-	-	52.2	12 824.6	-	34 621.1
Iron and steel	5 309.7	-	9.2	951.1	-	-	-	-	7 193.9	-	13 463.8
Chemical (including petrochemical)	-	-	0.3	3 458.5	-	-	-	-	1 031.8	-	4 490.6
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	3 990.8	-	0.3	1 109.4	-	-	-	1.1	1 161.4	-	6 263.0
Transport equipment	-	-	-	1.1	-	-	-	-	20.9	-	22.0
Machinery	-	-	-	42.8	-	-	-	-	67.0	-	109.7
Mining and quarrying ¹	-	-	1 615.8	81.7	-	-	-	-	483.8	-	2 181.3
Food, beverages and tobacco	84.1	-	15.2	1 603.7	-	-	-	51.1	969.5	-	2 723.6
Paper, pulp and printing	-	-	-	109.9	-	-	-	-	61.9	-	171.8
Wood and wood products	-	-	-	11.2	-	-	-	-	24.1	-	35.3
Construction	-	-	2 560.7	691.1	-	-	-	-	533.9	-	3 785.6

¹ Including non-ferrous metals

ENERGY BALANCE OF GEORGIA, 2021

	Coal	Crude Oil	Oil products	Natural Gas	Nucle ar	Hydro	Geother mal, solar, wind, etc.	Biofuel & Waste	Electricity	Heat	Total
Textiles and leather	-	-	-	34.0	-	-	-	-	60.1	-	94.1
Not elsewhere specified (Industry)	-	-	0.1	63.7	-	-	-	-	1 216.4	-	1 280.3
Transport	-	-	47 921.9	13 451.7	-	-	-	0.3	802.1	-	62 175.9
International aviation	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	25.9	-	-	-	-	-	-	-	25.9
Road	-	-	47 523.0	4 449.9	-	-	-	0.3	-	-	51 973.2
Rail	-	-	78.8	-	-	-	-	-	718.6	-	797.4
Domestic navigation	-	-	9.8	-	-	-	-	-	-	-	9.8
Pipeline transport	-	-	284.3	9 001.7	-	-	-	-	67.3	-	9 353.3
Not elsewhere specified (Transport)	-	-	-	-	-	-	-	-	16.2	-	16.2
Other	3.5	-	691.6	52 778.6	-	-	769.0	9 797.0	33 600.2	-	97 639.9
Commercial and public services	-	-	-	9 230.6	-	-	456.8	0.4	13 110.1	-	22 797.9
Residential	-	-	341.1	43 210.4	-	-	269.3	9 796.7	9 507.6	-	63 125.1
Agriculture/forestry/fishing	3.5	-	350.4	337.6	-	-	42.9	-	340.9	-	1 075.4
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	10 641.6	-	10 641.6
Non-energy use	-	-	5 427.7	5 835.6	-	-	-	-	-	-	11 263.3
Transformation sector	-	-	-	-	-	-	-	-	-	-	-
Energy sector	-	-	20.5	-	-	-	-	-	-	-	20.5
Transport sector	-	-	752.0	-	-	-	-	-	-	-	752.0
International aviation	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	743.2	-	-	-	-	-	-	-	743.2
Rail	-	-	8.7	-	-	-	-	-	-	-	8.7
Domestic navigation	-	-	0.1	-	-	-	-	-	-	-	0.1

ENERGY BALANCE OF GEORGIA, 2021

	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	-	-	4 655.0	5 835.6	-	-	-	-	-	-	10 490.6
Iron and steel	-	-	5.7	-	-	-	-	-	-	-	5.7
Chemical (including petrochemical)	-	-	186.0	5 835.6	-	-	-	-	-	-	6 021.7
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	107.6	-	-	-	-	-	-	-	107.6
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying ²	-	-	34.0	-	-	-	-	-	-	-	34.0
Food, beverages and tobacco	-	-	0.2	-	-	-	-	-	-	-	0.2
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	4 321.0	-	-	-	-	-	-	-	4 321.0
Textiles and leather	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Industry)	-	-	0.4	-	-	-	-	-	-	-	0.4
Other sectors	-	-	0.2	-	-	-	-	-	-	-	0.2
Commercial and public services	-	-	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-	-	-
Agriculture/forestry/fishing	-	-	0.2	-	-	-	-	-	-	-	0.2
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-

² Including non-ferrous metals-

AGGREGATED ENERGY BALANCE OF GEORGIA, 2021

(Thousand tonnes of oil equivalent)

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind etc.	Biofuel & Waste	Electricity	Heat	Total
Production	60.0	36.0	-	13.8	-	875.5	27.0	235.3	-	-	1 247.6
Imports	163.7	-	1 459.4	2 396.9	-	-	-	-	274.3	-	4 294.3
Exports	0.6	-	25.0	-	-	-	-	0.0	135.4	-	161.0
International Marine Bunkers	-	-	2.9	-	-	-	-	-	-	-	2.9
International Aviation Bunkers	-	-	97.0	-	-	-	-	-	-	-	97.0
Stock Changes	1.4	-0.6	6.6	-	-	-	-	-	-	-	7.4
DOMESTIC SUPPLY	224.5	35.4	1 341.2	2 410.7	-	875.5	27.0	235.3	138.9	-	5 288.4
Available	224.5	35.4	1391.1	2410.7	-	875.5	27.0	235.3	1 226.2	-	-
Transfers	-	-	-	-	-	-	-	-	-	-	-
Statistical Differences	0.0	-15.6	0.0	0.0	-	0.0	0.0	0.0	0.0	-	-15.6
Transformation Sector - Input	-	51.0	-	419.3	-	875.5	7.2	-	-	-	1 353.0
MA Thermal Electricity Plants	-	-	-	419.3	-	-	-	-	-	-	419.3
MA Hydro Electricity Plants	-	-	-	-	-	875.5	-	-	-	-	875.5
MA Heat Plants	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	51.0	-	-	-	-	-	-	-	-	51.0
Wind Plants	-	-	-	-	-	-	7.2	-	-	-	7.2
Transformation Sector – Production	-	-	49.9	-	-	-	-	-	1 087.3	-	1 137.2
MA Thermal Electricity Plants	-	-	-	-	-	-	-	-	204.6	-	204.6
MA Hydro Electricity Plants	-	-	-	-	-	-	-	-	875.5	-	875.5
MA Heat Plants	-	-	-	-	-	-	-	--	-	-	-
Petroleum Refineries	-	-	-	49.9	-	-	-	-	-	-	49.9
Wind Plants	-	-	-	-	-	-	-	-	7.2	-	7.2

ENERGY BALANCE OF GEORGIA, 2021

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind etc.	Biofuel & Waste	Electricity	Heat	Total
Energy Sector	0.3	-	-	-	-	-	-	-	21.5	-	21.8
Coal Mines	0.3	-	-	-	-	-	-	-	1.2	-	1.4
Oil and Gas Extraction	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	-	-	-	-	-	-	-	-	-	-	-
Own Use in Thermal Electricity Plants	-	-	-	-	-	-	-	-	8.2	-	8.2
Own Use in Hydro Electricity Plants	-	-	-	-	-	-	-	-	12.2	-	12.2
Used for Pumped Storage	-	-	-	-	-	-	-	-	-	-	-
Non-specified (Energy)	-	-	-	-	-	-	-	-	-	-	-
Losses	-	-	-	75.3	-	-	1.5	-	76.7	-	153.5
FINAL CONSUMPTION	224.2	-	1 391.1	1 916.1	-	-	18.4	235.3	1 128.0	-	4 913.1
Industry	224.1	-	100.4	194.9	-	-	-	1.2	306.3	-	826.9
Iron and steel	126.8	-	0.2	22.7	-	-	-	-	171.8	-	321.6
Chemical (including petrochemical)	-	-	0.0	82.6	-	-	-	-	24.6	-	107.3
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	95.3	-	0.0	26.5	-	-	-	0.0	27.7	-	149.6
Transport equipment	-	-	-	0.0	-	-	-	-	0.5	-	0.5
Machinery	-	-	-	1.0	-	-	-	-	1.6	-	2.6
Mining and quarrying ³	-	-	38.6	2.0	-	-	-	-	11.6	-	52.1
Food, beverages and tobacco	2.0	-	0.4	38.3	-	-	-	1.2	23.2	-	65.1
Paper, pulp and printing	-	-	-	2.6	-	-	-	-	1.5	-	4.1
Wood and wood products	-	-	-	0.3	-	-	-	-	0.6	-	0.8
Construction	-	-	61.2	16.5	-	-	-	-	12.8	-	90.4
Textiles and leather	-	-	-	0.8	-	-	-	-	1.4	-	2.2
Not elsewhere specified (Industry)	-	-	0.0	1.5	-	-	-	-	29.1	-	30.6

³ Including non-ferrous metals

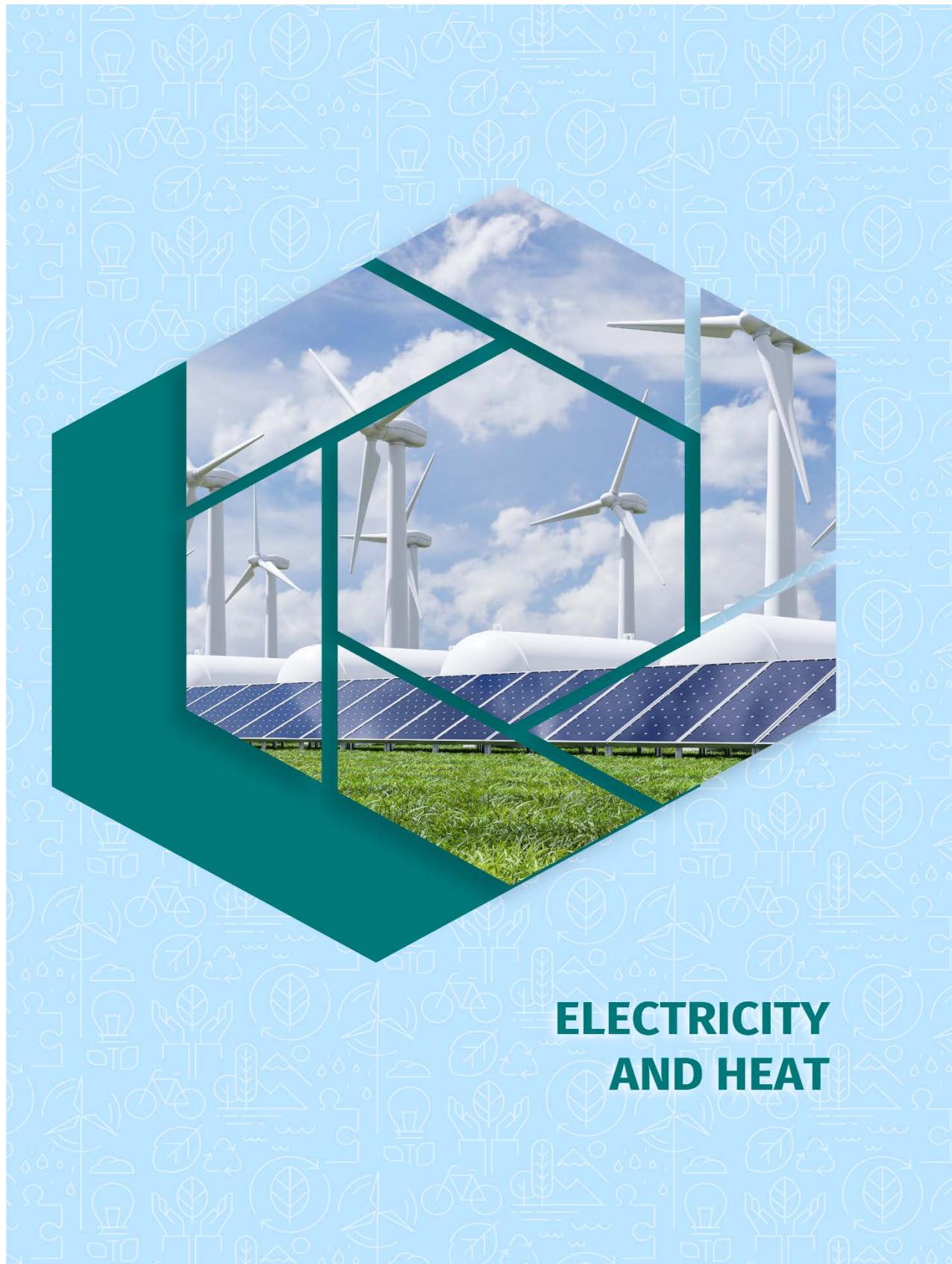
ENERGY BALANCE OF GEORGIA, 2021

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind etc.	Biofuel & Waste	Electricity	Heat	Total
Transport	-	-	1 144.6	321.3	-	-	-	0.0	19.2	-	1 485.0
International aviation	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	0.6	-	-	-	-	-	-	-	0.6
Road	-	-	1 135.1	106.3	-	-	-	0.0	-	-	1 241.4
Rail	-	-	1.9	-	-	-	-	-	17.2	-	19.0
Domestic navigation	-	-	0.2	-	-	-	-	-	-	-	0.2
Pipeline transport	-	-	6.8	215.0	-	-	-	-	1.6	-	223.4
Not elsewhere specified (Transport)	-	-	-	-	-	-	-	-	0.4	-	0.4
Other	0.1	-	16.5	1 260.6	-	-	18.4	234.0	802.5	-	2 332.1
Commercial and public services	-	-	-	220.5	-	-	10.9	0.0	313.1	-	544.5
Residential	-	-	8.1	1 032.1	-	-	6.4	234.0	227.1	-	1 507.7
Agriculture/forestry/fishing	0.1	-	8.4	8.1	-	-	1.0	-	8.1	-	25.7
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	254.2	-	254.2
Non-energy use	-	-	129.6	139.4	-	-	-	-	-	-	269.0
Transformation sector	-	-	-	-	-	-	-	-	-	-	-
Energy sector	-	-	0.5	-	-	-	-	-	-	-	0.5
Transport sector	-	-	18.0	-	-	-	-	-	-	-	18.0
International aviation	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	17.8	-	-	-	-	-	-	-	17.8
Rail	-	-	0.2	-	-	-	-	-	-	-	0.2
Domestic navigation	-	-	0.0	-	-	-	-	-	-	-	0.0
Pipeline transport	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Transport)	-	-	-	-	-	-	-	-	-	-	-

ENERGY BALANCE OF GEORGIA, 2021

	Coal	Crude Oil	Oil products	Natural Gas	Nuclear	Hydro	Geothermal, solar, wind etc.	Biofuel & Waste	Electricity	Heat	Total
Industry sector	-	-	111.2	139.4	-	-	-	-	-	-	250.6
Iron and steel	-	-	0.1	-	-	-	-	-	-	-	0.1
Chemical (including petrochemical)	-	-	4.4	139.4	-	-	-	-	-	-	143.8
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	2.6	-	-	-	-	-	-	-	2.6
Transport equipment	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying ⁴	-	-	0.8	-	-	-	-	-	-	-	0.8
Food, beverages and tobacco	-	-	0.0	-	-	-	-	-	-	-	0.0
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	103.2	-	-	-	-	-	-	-	103.2
Textiles and leather	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Industry)	-	-	0.0	-	-	-	-	-	-	-	0.0
Other sectors	-	-	0.0	-	-	-	-	-	-	-	0.0
Commercial and public services	-	-	-	-	-	-	-	-	-	-	-
Residential	-	-	-	-	-	-	-	-	-	-	-
Agriculture/forestry/fishing	-	-	0.0	-	-	-	-	-	-	-	0.0
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-

⁴ Including non-ferrous metals



SUPPLY AND CONSUMPTION OF ELECTRICITY AND HEAT, 2021

	Hydro (GWh)	Wind	Geothermal (TJ)	Solar (TJ)	Electricity (GWh)
Production	10 182.1	83.4	690.7	140.5	12 645.1
Imports	-	-	-	-	3 189.9
Exports	-	-	-	-	1 574.7
Stock Changes	-	-	-	-	-
DOMESTIC SUPPLY	10 182.1	83.4	690.7	140.5	14 260.3
Transfers	-	-	-	-	-
Statistical Differences	0.0	0.0	0.0	0.0	0.0
Transformation Sector - Input	10 182.1	83.4	-	-	-
MA Hydro Electricity Plants	10 182.1	-	-	-	-
Wind Plants	-	83.4	-	-	-
Transformation Sector - Production	-	-	-	-	12 645.1
MA Thermal Electricity Plants	-	-	-	-	2 379.6
MA Hydro Electricity Plants	-	-	-	-	10 182.1
Wind Plants	-	-	-	-	83.4
Energy Sector	-	-	-	-	250.2
Coal Mines	-	-	-	-	13.4
Own Use in Thermal Electricity Plants	-	-	-	-	95.4
Own Use in Hydro Electricity Plants	-	-	-	-	141.4
Other	-	-	-	-	0.0
Losses	-	-	62.2	-	891.5
FINAL CONSUMPTION	-	-	628.5	140.5	13 118.6
Industry	-	-	-	-	3 562.4
Iron and steel	-	-	-	-	1 998.3
Chemical (including petrochemical)	-	-	-	-	286.6
Non-ferrous metals	-	-	-	-	-
Non-metallic minerals	-	-	-	-	322.6
Transport equipment	-	-	-	-	5.8
Machinery	-	-	-	-	18.6
Mining and quarrying ¹	-	-	-	-	134.4
Food, beverages and tobacco	-	-	-	-	269.3
Paper, pulp and printing	-	-	-	-	17.2
Wood and wood products	-	-	-	-	6.7
Construction	-	-	-	-	148.3
Textiles and leather	-	-	-	-	16.7
Not elsewhere specified (Industry)	-	-	-	-	337.9

¹Including non-ferrous metals

ELECTRICITY AND HEAT

	Hydro (GWh)	Wind	Geothermal (TJ)	Solar (TJ)	Electricity (GWh)
Transport	-	-	-	-	222.8
Rail	-	-	-	-	199.6
Pipeline transport	-	-	-	-	18.7
Other	-	-	-	-	4.5
Other	-	-	628.5	140.5	9 333.4
Commercial and public services	-	-	320.4	136.4	3 641.7
Residential	-	-	265.2	4.1	2 641.0
Agriculture/forestry/fishing	-	-	42.9	-	94.7
Not elsewhere specified (Other)	-	-	-	-	2 956.0

SUPPLY AND CONSUMPTION OF ELECTRICITY AND HEAT, 2021
(TJ)

	Hydro	Wind	Geothermal	Solar	Electricity	Total
Production	36 655.6	300.2	690.7	140.5	-	37 787.0
Imports	-	-	-	-	11 483.6	11 483.6
Exports	-	-	-	-	5 668.9	5 668.9
Stock Changes	-	-	-	-	-	-
DOMESTIC SUPPLY	36 655.6	300.2	690.7	140.5	5 814.7	43 601.7
Available	36 655.6	300.2	690.7	140.5	51 337.1	-
Transfers	-	-	-	-	-	-
Statistical Differences	0.0	0.0	0.0	0.0	0.0	0.0
Transformation Sector - Input	36 655.6	300.2	-	-	-	36 955.8
MA Hydro Electricity Plants	36 655.6	-	-	-	-	36 655.6
Wind Plants	-	300.2	-	-	-	300.2
Transformation Sector - Production	-	-	-	-	45 522.4	45 522.4
MA Thermal Electricity Plants	-	-	-	-	8 566.6	8 566.6
MA Hydro Electricity Plants	-	-	-	-	36 655.6	36 655.6
Wind Plants	-	-	-	-	300.2	300.2
Energy Sector	-	-	-	-	900.7	900.7
Coal Mines	-	-	-	-	48.2	48.2
Own Use in Thermal Electricity Plants	-	-	-	-	343.4	343.3
Own Use in Hydro Electricity Plants	-	-	-	-	509.0	509.0
Other	-	-	-	-	0.0	0.0
Losses	-	-	62.2	-	3 209.4	3 271.6
FINAL CONSUMPTION	-	-	628.5	140.5	47 227.0	47 996.0
Industry	-	-	-	-	12 824.6	12 824.6
Iron and steel	-	-	-	-	7 193.9	7 193.9
Chemical (including petrochemical)	-	-	-	-	1 031.8	1 031.8
Non-ferrous metals	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	1 161.4	1 161.4
Transport equipment	-	-	-	-	20.9	20.9
Machinery	-	-	-	-	67.0	67.0
Mining and quarrying ²	-	-	-	-	483.8	483.8
Food, beverages and tobacco	-	-	-	-	969.5	969.5
Paper, pulp and printing	-	-	-	-	61.9	61.9
Wood and wood products	-	-	-	-	24.1	24.1
Construction	-	-	-	-	533.9	533.9
Textiles and leather	-	-	-	-	60.1	60.1
Not elsewhere specified (Industry)	-	-	-	-	1 216.4	1 216.4

²Including non-ferrous metals

ELECTRICITY AND HEAT

	Hydro	Wind	Geothermal	Solar	Electricity	Total
Transport	-	-	-	-	802.1	802.1
Rail	-	-	-	-	718.6	718.6
Pipeline transport	-	-	-	-	67.3	67.3
Other	-	-	-	-	16.2	16.2
Other	-	-	628.5	140.5	33 600.2	34 369.2
Commercial and public services	-	-	320.4	136.4	13 110.1	13 566.9
Residential	-	-	265.2	4.1	9 507.6	9 776.9
Agriculture/forestry/fishing	-	-	42.9	-	340.9	383.8
Not elsewhere specified (Other)	-	-	-	-	10 641.6	10 641.6

ELECTRICITY AND HEAT

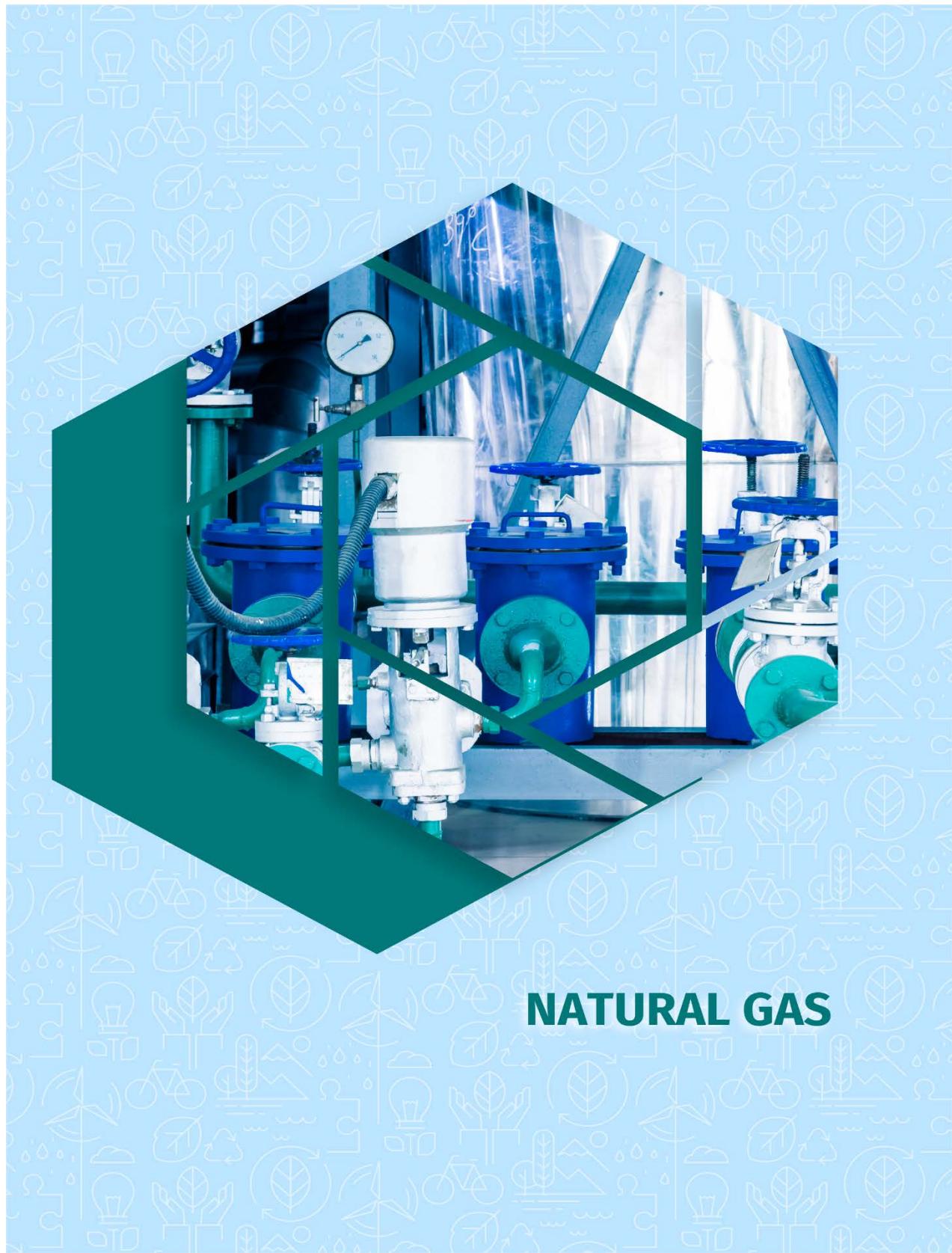
SUPPLY AND CONSUMPTION OF ELECTRICITY AND HEAT, 2021 (Thousand tonnes of oil equivalent)

	Hydro	Wind	Geothermal	Solar	Electricity	Total
Production	875.5	7.2	16.5	3.4	-	902.5
Imports	-	-	-	-	274.3	274.3
Exports	-	-	-	-	135.4	135.4
Stock Changes	-	-	-	-	-	-
DOMESTIC SUPPLY	875.5	7.2	16.5	3.4	138.9	1 041.4
Available	875.5	7.2	16.5	3.4	1 226.2	-
Transfers	-	-	-	-	-	-
Statistical Differences	0.0	0.0	0.0	0.0	0.0	0.0
Transformation Sector - Input	875.5	7.2	-	-	-	882.7
MA Hydro Electricity Plants	875.5	-	-	-	-	875.5
Wind Plants	-	7.2	-	-	-	7.2
Transformation Sector - Production	-	-	-	-	1 087.3	1 087.3
MA Thermal Electricity Plants	-	-	-	-	204.6	204.6
MA Hydro Electricity Plants	-	-	-	-	875.5	875.5
Wind Plants	-	-	-	-	7.2	7.2
Energy Sector	-	-	-	-	21.5	21.5
Coal Mines	-	-	-	-	1.2	1.2
Own Use in Thermal Electricity Plants	-	-	-	-	8.2	8.2
Own Use in Hydro Electricity Plants	-	-	-	-	12.2	12.2
Other	-	-	-	-	0.0	0.0
Losses	-	-	1.5	-	76.7	78.1
FINAL CONSUMPTION	-	-	15.0	3.4	1 128.0	1 146.4
Industry	-	-	-	-	306.3	306.3
Iron and steel	-	-	-	-	171.8	171.8
Chemical (including petrochemical)	-	-	-	-	24.6	24.6
Non-ferrous metals	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	27.7	27.7
Transport equipment	-	-	-	-	0.5	0.5
Machinery	-	-	-	-	1.6	1.6
Mining and quarrying ³	-	-	-	-	11.6	11.6
Food, beverages and tobacco	-	-	-	-	23.2	23.2
Paper, pulp and printing	-	-	-	-	1.5	1.5
Wood and wood products	-	-	-	-	0.6	0.6
Construction	-	-	-	-	12.8	12.8
Textiles and leather	-	-	-	-	1.4	1.4
Not elsewhere specified (Industry)	-	-	-	-	29.1	29.1

³Including non-ferrous metals

ELECTRICITY AND HEAT

	Hydro	Wind	Geothermal	Solar	Electricity	Total
Transport	-	-	-	-	19.2	19.2
Rail	-	-	-	-	17.2	17.2
Pipeline transport	-	-	-	-	1.6	1.6
Other	-	-	-	-	0.4	0.4
Other	-	-	15.0	3.4	802.5	820.9
Commercial and public services	-	-	7.7	3.3	313.1	324.0
Residential	-	-	6.3	0.1	227.1	233.5
Agriculture/forestry/fishing	-	-	1.0	-	8.1	9.2
Not elsewhere specified (Other)	-	-	-	-	254.2	254.2



SUPPLY AND CONSUMPTION OF NATURAL GAS, 2021

	Natural Gas (mil. m ³)
Production	16.0
Imports	2 785.2
Exports	-
Stock Changes	-
DOMESTIC SUPPLY	2 801.2
Transfers	-
Statistical Differences	0.0
Transformation Sector - Input	487.2
MA Thermal Electricity Plants	487.2
MA Hydro Electricity Plants	-
MA Heat Plants	-
Petroleum Refineries	-
Losses	87.5
FINAL CONSUMPTION	2 226.5
Industry	226.4
Iron and steel	26.4
Chemical (including petrochemical)	96.0
Non-ferrous metals	-
Non-metallic minerals	30.8
Transport equipment	0.0
Machinery	1.2
Mining and quarrying ¹	2.3
Food, beverages and tobacco	44.5
Paper, pulp and printing	3.1
Wood and wood products	0.3
Construction	19.2
Textiles and leather	0.9
Not elsewhere specified (Industry)	1.8
Transport	373.3
Road	123.5
Pipeline transport	249.8

¹ Including non-ferrous metals

NATURAL GAS

	Natural Gas (mil. m ³)
Other	1 464.8
Commercial and public services	256.2
Residential	1 199.3
Agriculture/forestry/fishing	9.4
other	-
Non-energy use	162.0
Industry sector	162.0
Chemical (including petrochemical)	162.0

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

SUPPLY AND CONSUMPTION OF NATURAL GAS, 2021

(TJ)

	Natural Gas
Production	576.8
Imports	100 354.2
Exports	-
Stock Changes	-
DOMESTIC SUPPLY	100 930.9
Available	100 930.9
Transfers	-
Statistical Differences	0.0
Transformation Sector - Input	17 553.5
MA Thermal Electricity Plants	17 553.5
MA Hydro Electricity Plants	-
MA Heat Plants	-
Petroleum Refineries	-
Losses	3 153.5
FINAL CONSUMPTION	80 223.9
Industry	8 158.0
Iron and steel	951.1
Chemical (including petrochemical)	3 458.5
Non-ferrous metals	-
Non-metallic minerals	1 109.4
Transport equipment	1.1
Machinery	42.8
Mining and quarrying ²	81.7
Food, beverages and tobacco	1 603.7
Paper, pulp and printing	109.9
Wood and wood products	11.2
Construction	691.1
Textiles and leather	34.0
Not elsewhere specified (Industry)	63.7
Transport	13 451.7
Road	4 449.9
Pipeline transport	9 001.7

² Including non-ferrous metals

NATURAL GAS

	Natural Gas
Other	52 778.6
Commercial and public services	9 230.6
Residential	43 210.4
Agriculture/forestry/fishing	337.6
Not elsewhere specified (Other)	-
Non-energy use	5 835.6
Industry sector	5 835.6
Chemical (including petrochemical)	5 835.6

SUPPLY AND CONSUMPTION OF NATURAL GAS, 2021

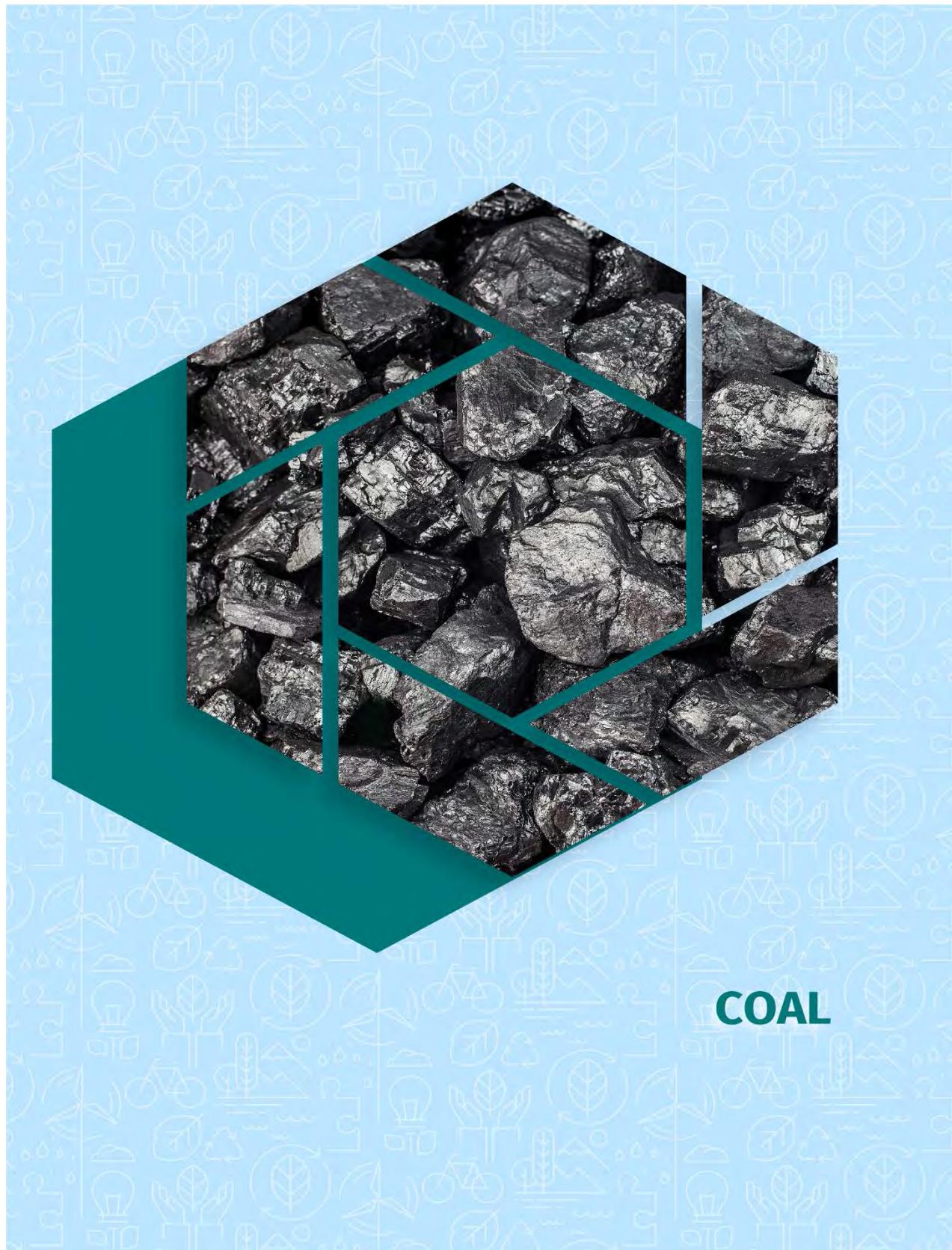
(Thousand tonnes of oil equivalent)

	Natural Gas
Production	13.8
Imports	2 396.9
Exports	-
Stock Changes	-
DOMESTIC SUPPLY	2 410.7
Available	2 410.7
Transfers	-
Statistical Differences	-
Transformation Sector - Input	419.3
MA Thermal Electricity Plants	419.3
MA Hydro Electricity Plants	-
MA Heat Plants	-
Petroleum Refineries	-
Losses	75.3
FINAL CONSUMPTION	1 916.1
Industry	194.9
Iron and steel	22.7
Chemical (including petrochemical)	82.6
Non-ferrous metals	-
Non-metallic minerals	26.5
Transport equipment	0.0
Machinery	1.0
Mining and quarrying ³	2.0
Food, beverages and tobacco	38.3
Paper, pulp and printing	2.6
Wood and wood products	0.3
Construction	16.5
Textiles and leather	0.8
Not elsewhere specified (Industry)	1.5
Transport	321.3
Road	106.3
Pipeline transport	215.0

³ Including non-ferrous metals

NATURAL GAS

	Natural Gas
Other	1 260.6
Commercial and public services	220.5
Residential	1 032.1
Agriculture/forestry/fishing	8.1
Not elsewhere specified (Other)	-
Non-energy use	139.4
Industry sector	139.4
Chemical (including petrochemical)	139.4



COAL

SUPPLY AND CONSUMPTION OF COAL, 2021

(Thousand tonnes)

	Anthracite	Other Bit. Coal	Lignite/ Brown Coal	Coke Oven Coke
Production	-	-	147.9	-
Imports	4.9	95.3	-	147.7
Exports	-	-	1.5	-
Stock Changes	-2.4	9.0	4.4	-5.9
DOMESTIC SUPPLY	2.5	104.3	150.8	141.8
Transfers	-	-	-	-
Statistical Differences	0.0	0.0	0.0	0.0
Transformation Sector - Input	-	-	-	-
Coal TP	-	-	-	-
Energy Sector	-	-	0.7	-
Coal Mines	-	-	0.7	-
FINAL CONSUMPTION	2.5	104.3	150.1	141.8
Industry	2.5	104.3	149.9	141.8
Iron and steel	-	2.1	64.7	141.8
Non-metallic minerals	-	101.7	85.2	-
Mining and quarrying ¹	-	-	-	-
Food, beverages and tobacco	2.5	0.5	-	-
Wood and wood products	-	-	-	-
Other	-	-	0.2	-
Commercial and public services	-	-	-	-
Residential	-	-	-	-
Agriculture/forestry/fishing	-	-	0.2	-

¹Including non-ferrous metals

SUPPLY AND CONSUMPTION OF COAL, 2021

(TJ)

	Anthracite	Other Bit. Coal	Lignite/ Brown Coal	Coke Oven Coke	Total
Production	-	-	2 513.9	-	2 513.9
Imports	143.6	2 382.2	-	4 328.2	6 853.9
Exports	-	-	24.8	-	24.8
Stock Changes	-71.3	225.4	74.7	-172.0	56.8
DOMESTIC SUPPLY	72.3	2 607.6	2 563.8	4 156.2	9 399.9
Available	72.3	2 607.6	2 563.8	4 156.2	9 399.9
Transfers	-	-	-	-	-
Statistical Differences	0.0	0.0	0.0	0.0	0.0
Transformation Sector - Input	-	-	-	-	-
Coal TP	-	-	-	-	-
Energy Sector	-	-	11.7	-	-
Coal Mines	-	-	11.7	-	-
FINAL CONSUMPTION	72.3	2 607.6	2 552.1	4 156.2	9 388.1
Industry	72.3	2 607.6	2 548.6	4 156.2	9 384.6
Iron and steel	-	52.8	1 100.7	4 156.2	5 309.7
Non-metallic minerals	-	2 543.0	1 447.9	-	3 990.8
Mining and quarrying ²	-	-	-	-	-
Food, beverages and tobacco	72.3	11.8	-	-	84.1
Wood and wood products	-	-	-	-	-
Other	-	-	3.5	-	3.5
Commercial and public services	-	-	-	-	-
Residential	-	-	-	-	-
Agriculture/forestry/fishing	-	-	3.5	-	3.5

²Including non-ferrous metals

SUPPLY AND CONSUMPTION OF COAL, 2021

(Thousand tonnes of oil equivalent)

	Anthracite	Other Bit. Coal	Lignite/ Brown Coal	Coke Oven Coke	Total
Production	-	-	60.0	-	60.0
Imports	3.4	56.9	-	103.4	163.7
Exports	-	-	0.6	-	0.6
Stock Changes	-1.7	5.4	1.8	-4.1	1.4
Domestic Supply	1.7	62.3	61.2	99.3	224.5
Available	1.7	62.3	61.2	99.3	224.5
Transfers	-	-	-	-	-
Statistical Differences	0.0	0.0	0.0	0.0	0.0
Transformation Sector - Input	-	-	-	-	-
Coal TP	-	-	-	-	-
Energy Sector	-	-	0.3	-	0.3
Coal Mines	-	-	0.3	-	0.3
FINAL CONSUMPTION	1.7	62.3	61.0	99.3	224.2
Industry	1.7	62.3	60.9	99.3	224.1
Iron and steel	-	1.3	26.3	99.3	126.8
Non-metallic minerals	-	60.7	34.6	-	95.3
Mining and quarrying ³	-	-	-	-	-
Food, beverages and tobacco	1.7	0.3	-	-	2.0
Wood and wood products	-	-	-	-	-
Other	-	-	0.1	-	0.1
Commercial and public services	-	-	-	-	-
Residential	-	-	-	-	-
Agriculture/forestry/fishing	-	-	0.1	-	0.1

³Including non-ferrous metals



**OIL AND
OIL PRODUCTS**

OIL AND OIL PRODUCTS

SUPPLY AND CONSUMPTION OF OIL AND OIL PRODUCTS, 2021

	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	35.5	-	-	-	-	-	-	-	-	-	-	-	-
Imports	-	36.2	588.6	96.2	-	552.3	9.1	0.1	-	25.3	118.4	-	0.5
Exports	-	-	1.4	-	-	4.2	-	17.8	-	2.4	-	-	0.0
International Marine Bunkers	-	-	-	-	-	2.9	-	-	-	-	-	-	-
International Aviation Bunkers	-	-	-	-	94.4	-	-	-	-	-	-	-	-
Stock Changes	-0.6	-0.2	-0.8	-1.2	-	11.7	-	-0.1	-	-1.4	-2.5	-	0.6
DOMESTIC SUPPLY	34.9	36.0	586.4	0.6	-	556.9	9.1	-17.7	-	21.5	115.9	-	1.2
Transfers	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Differences	-15.4	0.0	0.0	0.0	-	0.0	0.0	0.0	-	0.0	0.0	-	0.0
Transformation Sector - Input	50.3	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Refineries	50.3	-	-	-	-	-	-	-	-	-	-	-	-
Transformation Sector - Production	-	-	9.3	-	-	18.3	-	18.4	-	-	0.6	-	3.7
Petroleum Refineries	-	-	9.3	-	-	18.3	-	18.4	-	-	0.6	-	3.7
FINAL CONSUMPTION	-	36.0	595.7	0.6	-	575.3	9.1	0.7	-	21.5	116.4	-	4.9
Industry	-	0.1	-	-	-	97.9	0.2	0.4	-	-	-	-	-
Iron and steel	-	0.0	-	-	-	-	0.2	-	-	-	-	-	-
Chemical (including petrochemical)	-	0.0	-	-	-	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	0.0	-	-	-	-	-	-
Transport equipment	-	-	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-	-	-	-	-

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	-	-	-	-	-	37.9	0.0	-	-	-	-	-	-
Food, beverages and tobacco	-	0.0	-	-	-	-	-	0.3	-	-	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	0.1	-	-	-	60.0	0.0	0.1	-	-	-	-	-
Textiles and leather	-	-	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Industry)	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-
Transport	-	28.4	595.0	0.6	-	470.3	8.5	0.3	-	-	-	-	-
International aviation	-	-	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	0.6	-	-	-	-	-	-	-	-	-
Road	-	28.4	595.0	-	-	470.3	-	-	-	-	-	-	-
Rail	-	-	-	-	-	-	1.6	0.3	-	-	-	-	-
Domestic navigation	-	-	-	-	-	-	0.2	-	-	-	-	-	-
Pipeline transport	-	-	-	-	-	-	6.7	-	-	-	-	-	-
Other	-	7.4	0.7	-	-	7.1	0.4	-	-	-	-	-	-
Commercial and public services	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential	-	7.4	-	-	-	-	-	-	-	-	-	-	-
Agriculture/forestry/fishing	-	0.0	0.7	-	-	7.1	0.4	-	-	-	-	-	-
Non-energy use	-	-	-	-	-	-	-	-	-	21.5	116.4	-	4.9
Energy sector	-	-	-	-	-	-	-	-	-	0.5	-	-	-

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)
Transport sector	-	-	-	-	-	-	-	-	-	19.8	-	-	-
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-	19.6	-	-	-
Rail	-	-	-	-	-	-	-	-	-	0.2	-	-	-
Domestic navigation	-	-	-	-	-	-	-	-	-	0.0	-	-	-
Industry sector	-	-	-	-	-	-	-	-	-	1.2	116.4	-	4.9
Iron and steel	-	-	-	-	-	-	-	-	-	0.2	-	-	-
Chemical (including petrochemical)	-	-	-	-	-	-	-	-	-	-	-	-	4.9
Non-metallic minerals	-	-	-	-	-	-	-	-	-	0.0	2.8	-	-
Machinery	-	-	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying ²	-	-	-	-	-	-	-	-	-	0.9	-	-	-
Food, beverages and tobacco	-	-	-	-	-	-	-	-	-	0.0	-	-	-
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-	0.1	113.6	-	-
Textiles and leather	-	-	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Industry)	-	-	-	-	-	-	-	-	-	0.0	-	-	-
Other sectors	-	-	-	-	-	-	-	-	-	0.0	-	-	-
Agriculture/forestry/fishing	-	-	-	-	-	-	-	-	-	0.0	-	-	-
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-	-	-

² Including non-ferrous metals

OIL AND OIL PRODUCTS

SUPPLY AND CONSUMPTION OF OIL AND OIL PRODUCTS, 2021 (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	1 507.8	-	-	-	-	-	-	-	-	-	-	-	-	1 507.8
Imports	-	1 665.1	25 900.4	4 136.9	-	23 528.0	389.1	5.3	-	959.7	4 498.5	-	20.7	61 103.7
Exports	-	-	62.8	-	-	179.6	-	714.3	-	89.7	-	-	0.0	1 046.4
International Marine Bunkers	-	-	-	-	-	122.6	-	-	-	-	-	-	-	122.6
International Aviation Bunkers	-	-	-	4 059.9	-	-	-	-	-	-	-	-	-	4 059.9
Stock Changes	-25.9	-10.4	-33.9	-51.1	-	500.1	-	-2.7	-	-52.9	-95.6	-	24.4	252.1
DOMESTIC SUPPLY	1 481.9	1 654.7	25 803.7	25.9	-	23 726.0	389.1	-711.6	-	817.1	4 402.9	-	45.0	57 634.7
Available	1 481.9	1 654.7	26 211.7	25.9	-	24 507.2	389.1	26.4	-	817.1	4 424.5	-	186.0	59 724.6
Transfers	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Differences	-655.0	-	-	-	-	-	-	-	-	-	-	-	-	-655.0
Transformation Sector - Input	2 136.9	-	-	-	-	-	-	-	-	-	-	-	-	2 136.9
Petroleum Refineries	2 136.9	-	-	-	-	-	-	-	-	-	-	-	-	2 136.9
Transformation Sector - Production	-	-	408.0	-	-	781.2	-	738.0	-	-	21.6	-	141.0	2 089.9
Petroleum Refineries	-	-	408.0	-	-	781.2	-	738.0	-	-	21.6	-	141.0	2 089.9
FINAL CONSUMPTION	-	1 654.7	26 211.7	25.9	-	24 507.2	389.1	26.4	-	817.1	4 424.5	-	186.0	58 242.7
Industry	-	6.7	-	-	-	4 169.4	9.8	15.7	-	-	-	-	-	4 201.6
Iron and steel	-	0.0	-	-	-	-	9.2	-	-	-	-	-	-	9.2
Chemical (including petrochemical)	-	0.3	-	-	-	-	-	-	-	-	-	-	-	0.3
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	0.3	-	-	-	-	-	-	0.3

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 equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying ³	-	-	-	-	-	1 615.5	0.3	-	-	-	-	-	-	1 615.8
Food, beverages and tobacco	-	1.7	-	-	-	-	-	13.4	-	-	-	-	-	15.2
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	4.5	-	-	-	2 553.9	0.0	2.3	-	-	-	-	-	2 560.7
Textiles and leather	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Industry)	-	0.1	-	-	-	-	0.0	-	-	-	-	-	-	0.1
Transport	-	1 306.7	26 181.8	25.9	-	20 034.6	362.2	10.8	-	-	-	-	-	47 921.9
International aviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	25.9	-	-	-	-	-	-	-	-	-	25.9
Road	-	1 306.7	26 181.8	-	-	20 034.6	-	-	-	-	-	-	-	47 523.0
Rail	-	-	-	-	-	-	68.1	10.8	-	-	-	-	-	78.8
Domestic navigation	-	-	-	-	-	-	9.8	-	-	-	-	-	-	9.8
Pipeline transport	-	-	-	-	-	-	284.3	-	-	-	-	-	-	284.3
Other	-	341.4	29.9	-	-	303.2	17.0	-	-	-	-	-	-	691.6
Commercial and public services	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential	-	341.1	-	-	-	-	-	-	-	-	-	-	-	341.1
Agriculture/forestry/fishing	-	0.2	29.9	-	-	303.2	17.0	-	-	-	-	-	-	350.4
Non-energy use	-	-	-	-	-	-	-	-	-	817.1	4 424.5	-	186.0	5 427.7
Energy sector	-	-	-	-	-	-	-	-	-	20.5	-	-	-	20.5

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
Transport sector	-	-	-	-	-	-	-	-	-	752.0	-	-	-	752.0
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-	743.2	-	-	-	743.2
Rail	-	-	-	-	-	-	-	-	-	8.7	-	-	-	8.7
Domestic navigation	-	-	-	-	-	-	-	-	-	0.1	-	-	-	0.1
Industry sector	-	-	-	-	-	-	-	-	-	44.4	4 424.5	-	186.0	4 655.0
Iron and steel	-	-	-	-	-	-	-	-	-	5.7	-	-	-	5.7
Chemical (including petrochemical)	-	-	-	-	-	-	-	-	-	-	-	-	186.0	186.0
Non-metallic minerals	-	-	-	-	-	-	-	-	-	1.3	106.3	-	-	107.6
Machinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying ⁴	-	-	-	-	-	-	-	-	-	34.0	-	-	-	34.0
Food, beverages and tobacco	-	-	-	-	-	-	-	-	-	0.2	-	-	-	0.2
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-	2.8	4 318.2	-	-	4 321.0
Textiles and leather	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Industry)	-	-	-	-	-	-	-	-	-	0.4	-	-	-	0.4
Other sectors	-	-	-	-	-	-	-	-	-	0.2	-	-	-	0.2
Agriculture/forestry/fishing	-	-	-	-	-	-	-	-	-	0.2	-	-	-	0.2
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-	-	-	-

⁴ Including non-ferrous metals

OIL AND OIL PRODUCTS

SUPPLY AND CONSUMPTION OF OIL AND OIL PRODUCTS, 2021

(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	36.0	-	-	-	-	-	-	-	-	-	-	-	-	36.0
Imports	-	39.8	618.6	98.9	-	562.0	9.3	0.1	-	22.9	107.4	-	0.5	1 459.4
Exports	-	-	1.5	-	-	4.3	-	17.1	-	2.1	-	-	0.0	25.0
International Marine Bunkers	-	-	-	-	-	2.9	-	-	-	-	-	-	-	2.9
International Aviation Bunkers	-	-	-	97.0	-	-	-	-	-	-	-	-	-	97.0
Stock Changes	-0.6	-0.2	-0.8	-1.2	-	11.9	-	-0.1	-	-1.3	-2.3	-	0.6	6.0
DOMESTIC SUPPLY	35.4	39.5	616.3	0.6	-	566.7	9.3	-17.0	-	19.5	105.2	-	1.1	1 376.6
Available	35.4	39.5	626.1	0.6	-	585.3	9.3	0.6	-	19.5	105.7	-	4.4	1 426.5
Transfers	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Differences	-15.6	0.0	0.0	0.0	-	0.0	0.0	0.0	-	0.0	0.0	-	0.0	-15.6
Transformation Sector - Input	51.0	-	-	-	-	-	-	-	-	-	-	-	-	51.0
Petroleum Refineries	51.0	-	-	-	-	-	-	-	-	-	-	-	-	51.0
Transformation Sector - Production	-	-	9.7	-	-	18.7	-	17.6	-	-	0.5	-	3.4	49.9
Petroleum Refineries	-	-	9.7	-	-	18.7	-	17.6	-	-	0.5	-	3.4	49.9
FINAL CONSUMPTION	-	39.5	626.1	0.6	-	585.3	9.3	0.6	-	19.5	105.7	-	4.4	1 391.1
Industry	-	0.2	-	-	-	99.6	0.2	0.4	-	-	-	-	-	100.4
Iron and steel	-	0.0	-	-	-	-	0.2	-	-	-	-	-	-	0.2
Chemical (including petrochemical)	-	0.0	-	-	-	-	-	-	-	-	-	-	-	0.0
Non-ferrous metals	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-metallic minerals	-	-	-	-	-	-	0.0	-	-	-	-	-	-	0.0
Transport equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-

OIL AND OIL PRODUCTS

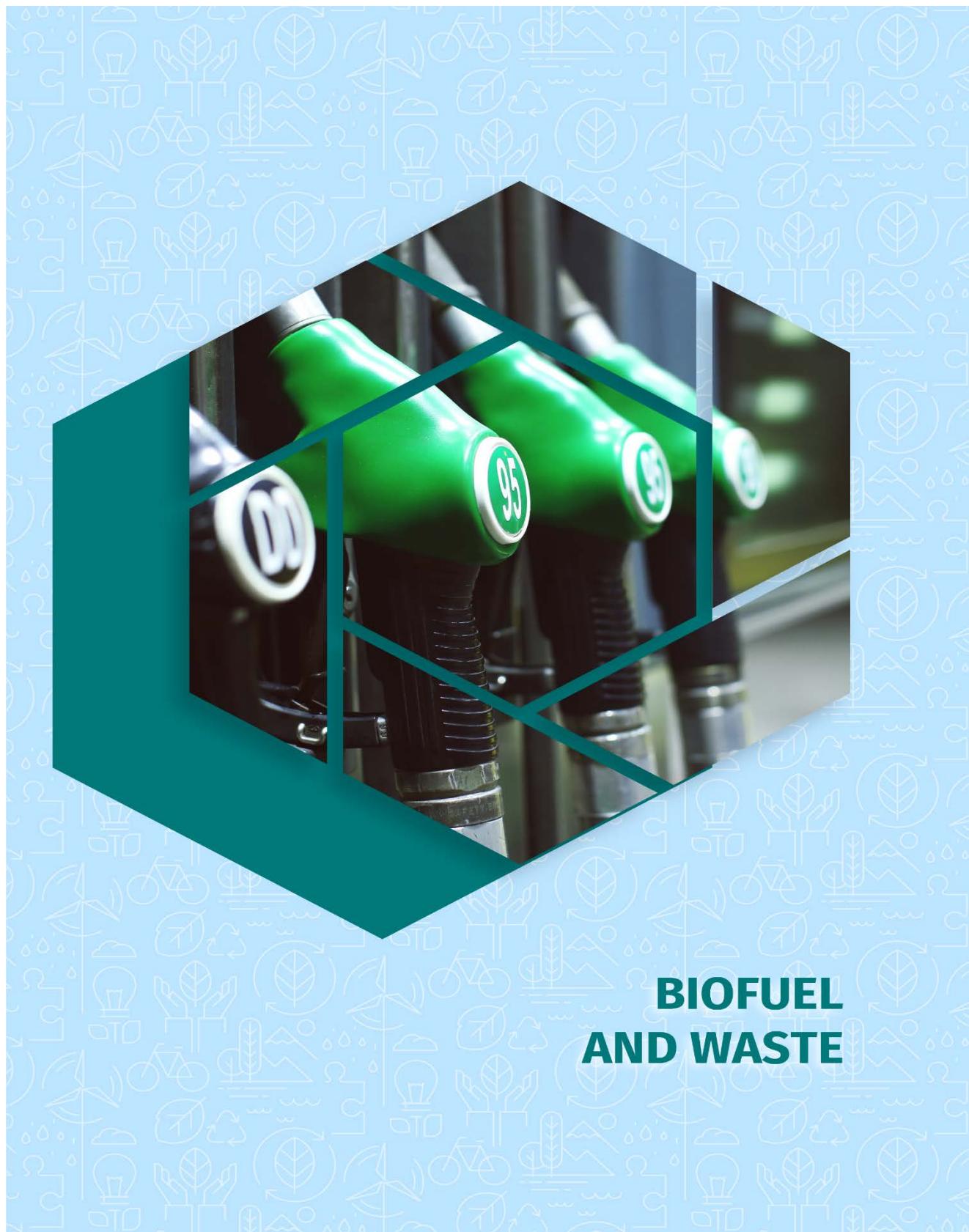
	Crude Oil	Liquefied Petroleum Gases	Motor Gasoline	Kerosene type Jet Fuel	Kerosene	Road diesel	Heating and other gas oil	Fuel oil-low sulph. (< 1%)	Fuel oil-high sulph. (>=1%)	Lubricants	Bitumen	Paraffin Waxes	Non-specified Petroleum Prods.	Total
Machinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying ⁵	-	-	-	-	-	38.6	0.0	-	-	-	-	-	-	38.6
Food, beverages and tobacco	-	0.0	-	-	-	-	-	0.3	-	-	-	-	-	0.4
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	0.1	-	-	-	61.0	0.0	0.1	-	-	-	-	-	61.2
Textiles and leather	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Industry)	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	0.0
Transport	-	31.2	625.3	0.6	-	478.5	8.7	0.3	-	-	-	-	-	1 144.6
International aviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Domestic aviation	-	-	-	0.6	-	-	-	-	-	-	-	-	-	0.6
Road	-	31.2	625.3	-	-	478.5	-	-	-	-	-	-	-	1 135.1
Rail	-	-	-	-	-	-	1.6	0.3	-	-	-	-	-	1.9
Domestic navigation	-	-	-	-	-	-	0.2	-	-	-	-	-	-	0.2
Pipeline transport	-	-	-	-	-	-	6.8	-	-	-	-	-	-	6.8
Other	-	8.2	0.7	-	-	7.2	0.4	-	-	-	-	-	-	16.5
Commercial and public services	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential	-	8.1	-	-	-	-	-	-	-	-	-	-	-	8.1
Agriculture/forestry/fishing	-	0.0	0.7	-	-	7.2	0.4	-	-	-	-	-	-	8.4
Non-energy use	-	-	-	-	-	-	-	-	-	19.5	105.7	-	4.4	129.6
Energy sector	-	-	-	-	-	-	-	-	-	0.5	-	-	-	0.5

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	-	-	-	-	-	-	-	-	-	18.0	-	-	-	18.0
Domestic aviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Road	-	-	-	-	-	-	-	-	-	17.8	-	-	-	17.8
Rail	-	-	-	-	-	-	-	-	-	0.2	-	-	-	0.2
Domestic navigation	-	-	-	-	-	-	-	-	-	0.0	-	-	-	0.0
Industry sector	-	-	-	-	-	-	-	-	-	1.1	105.7	-	4.4	111.2
Iron and steel	-	-	-	-	-	-	-	-	-	0.1	-	-	-	0.1
Chemical (including petrochemical)	-	-	-	-	-	-	-	-	-	-	-	-	4.4	4.4
Non-metallic minerals	-	-	-	-	-	-	-	-	-	0.0	2.5	-	-	2.6
Machinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mining and quarrying ⁶	-	-	-	-	-	-	-	-	-	0.8	-	-	-	0.8
Food, beverages and tobacco	-	-	-	-	-	-	-	-	-	0.0	-	-	-	0.0
Paper, pulp and printing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood and wood products	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction	-	-	-	-	-	-	-	-	-	0.1	103.1	-	-	103.2
Textiles and leather	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Not elsewhere specified (Industry)	-	-	-	-	-	-	-	-	-	0.0	-	-	-	0.0
Other sectors	-	-	-	-	-	-	-	-	-	0.0	-	-	-	0.0
Agriculture/forestry/fishing	-	-	-	-	-	-	-	-	-	0.0	-	-	-	0.0
Not elsewhere specified (Other)	-	-	-	-	-	-	-	-	-	-	-	-	-	-

⁶ Including non-ferrous metals



**BIOFUEL
AND WASTE**

SUPPLY AND CONSUMPTION OF BIOFUEL AND WASTE IN PHYSICAL UNITS, 2021

	Fuel wood (1000 m ³)	Other vegetal materials and residual (1000 t)	Biodiesel (1000 t)	Charcoal (1000 t)
Production	1 256.5	6.3	0.0	0.0
Imports	-	-	-	-
Exports	0.2	-	-	-
Stock Changes	-	-	-	-
DOMESTIC SUPPLY	1 256.3	6.3	0.0	0.0
Transfers	-	-	-	-
Statistical Differences	0.0	0.0	0.0	0.0
FINAL CONSUMPTION	1 256.3	6.3	-	-
Industry	6.7	-	-	-
Non-metallic minerals	0.1	-	-	-
Machinery	-	-	-	-
Food, beverages and tobacco	6.5	-	-	-
Wood and wood products	-	-	-	-
Construction	-	-	-	-
Transport	-	-	0.0	-
Road	-	-	0.0	-
Other	1 249.6	6.3	-	-
Commercial and public services	0.0	0.0	-	0.0
Residential	1 249.6	6.2	-	-
Agriculture/forestry/fishing	-	-	-	-

SUPPLY AND CONSUMPTION OF BIOFUEL AND WASTE, 2021

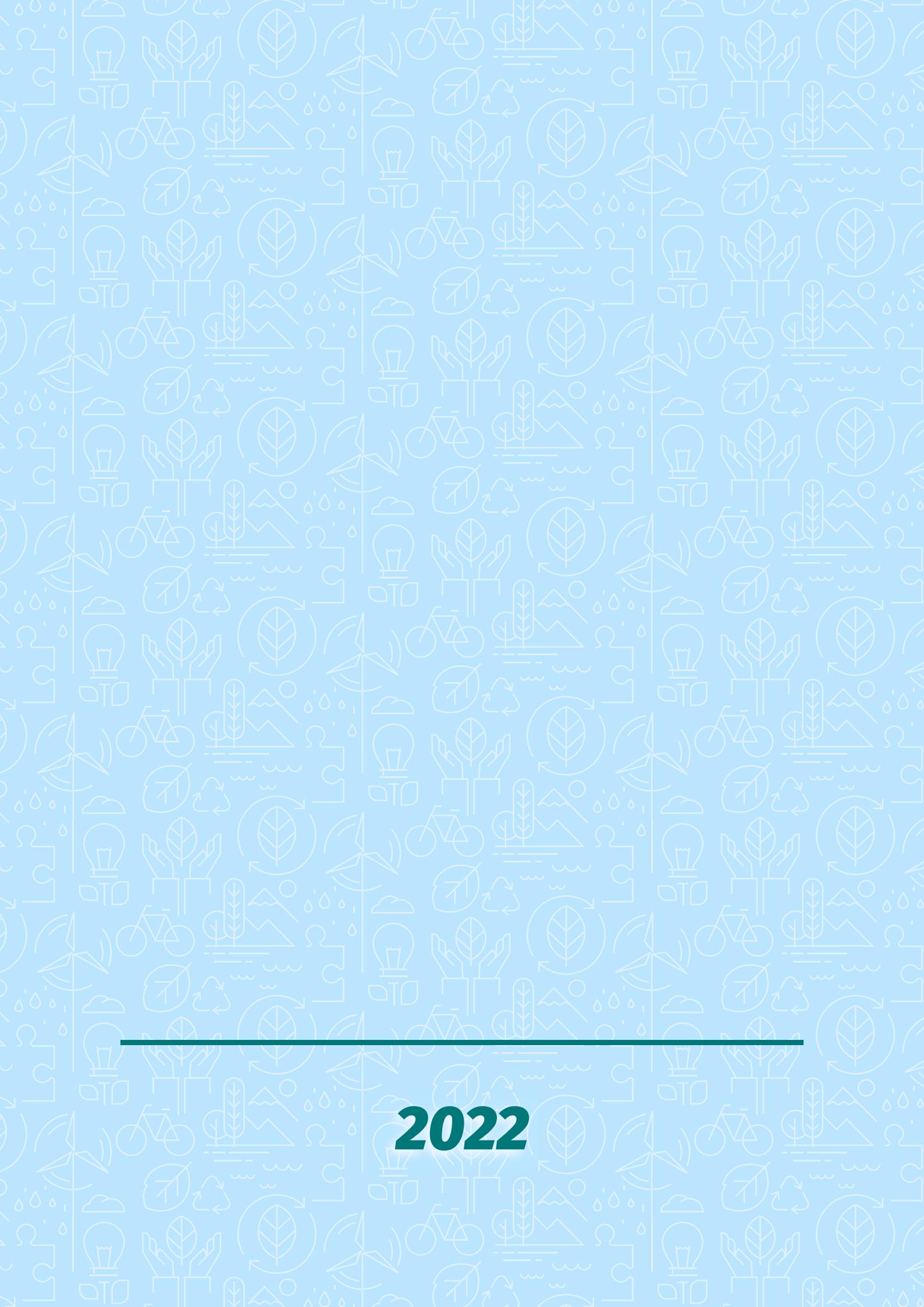
(TJ)

	Fuel wood	Other vegetal materials and residual	Biodiesel (1000 t)	Charcoal	Total
Production	9 800.5	50.1	0.3	0.0	9 850.9
Imports	-	-	-	-	-
Exports	1.4	-	-	-	1.4
Stock Changes	-	-	-	-	-
DOMESTIC SUPPLY	9 799.1	50.1	0.3	0.0	9 849.5
Available	9 799.1	50.1	0.3	0.0	9 849.5
Transfers	-	-	-	-	-
Statistical Differences	0.0	0.0	0.0	0.0	0.0
FINAL CONSUMPTION	9 799.1	50.1	0.3	0.0	9 849.5
Industry	52.2	-	-	-	52.2
Non-metallic minerals	1.1	-	-	-	1.1
Machinery	-	-	-	-	-
Food, beverages and tobacco	51.1	-	-	-	51.1
Wood and wood products	-	-	-	-	-
Construction	-	-	-	-	-
Transport	-	-	0.3	-	0.3
Road	-	-	0.3	-	0.3
Other	9 746.9	50.1	-	-	9 797.0
Commercial and public services	0.0	0.4	-	0.0	0.4
Residential	9 746.9	49.8	-	-	9 796.7
Agriculture/forestry/fishing	-	-	-	-	-

SUPPLY AND CONSUMPTION OF BIOFUEL AND WASTE, 2021

(Thousand tonnes of oil equivalent)

	Fuel wood	Other vegetal materials and residual	Biodiesel	Charcoal	Total
Production	234.1	1.2	0.0	0.0	235.3
Imports	-	-	-	-	-
Exports	0.0	-	-	-	0.0
Stock Changes	-	-	-	-	-
DOMESTIC SUPPLY	234.0	1.2	0.0	0.0	235.3
Available	234.0	1.2	0.0	0.0	235.3
Transfers	-	-	-	-	-
Statistical Differences	0.0	0.0	0.0	0.0	0.0
FINAL CONSUMPTION	234.0	1.2	0.0	0.0	235.3
Industry	1.2	-	-	-	1.2
Non-metallic minerals	0.0	-	-	-	0.0
Machinery	-	-	-	-	-
Food, beverages and tobacco	1.2	-	-	-	1.2
Wood and wood products	-	-	-	-	-
Construction	-	-	-	-	-
Transport	-	-	0.0	-	0.0
Road	-	-	0.0	-	0.0
Other	232.8	1.2	-	-	234.0
Commercial and public services	0.0	0.0	-	0.0	0.0
Residential	232.8	1.2	-	-	234.0
Agriculture/forestry/fishing	-	-	-	-	-



2022