

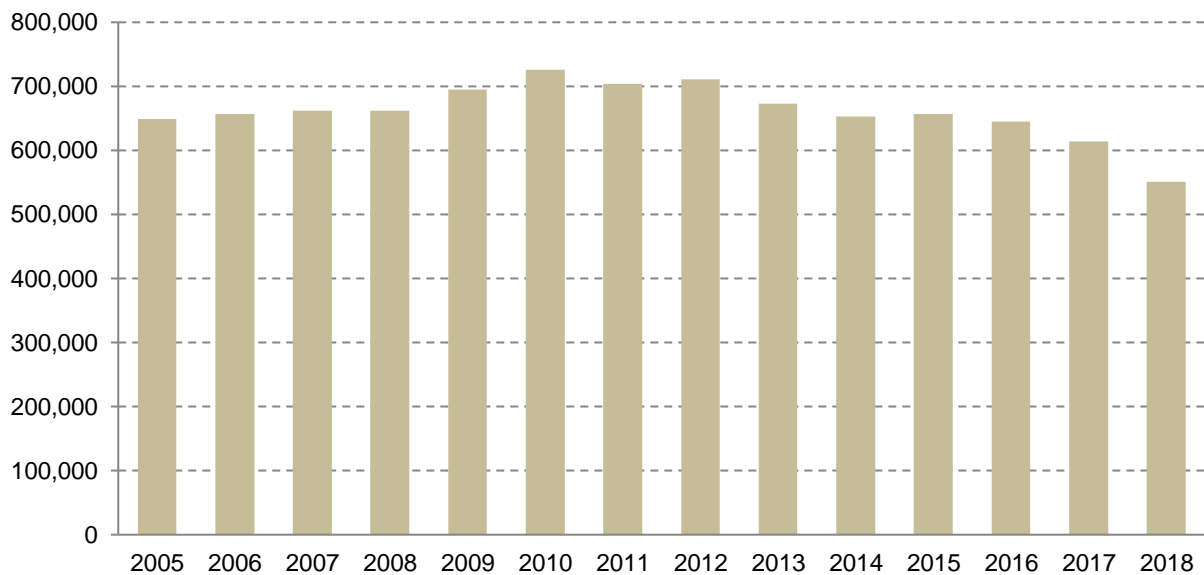
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## Balance of wood fuels 2018

*Primary production from firewood and wood residue in Montenegro in 2018 was 849 050 m<sup>3</sup>, wood chips 2 334 tons and wood briquettes and wood pellets was 66 413 tons.*

*Final consumption firewood in households was 550 797 m<sup>3</sup>, in industry 37 059 m<sup>3</sup> and other sectors 25 235 m<sup>3</sup>.*

**Graph 1. Firewood consumption of firewood in household sector in Montenegro, in m<sup>3</sup>**



**Table 1. Balance of wood fuels in Montenegro, 2018**

	Firewood	Wood residue	Wood chips	Wood pellets	Charcoal
	m <sup>3</sup>	m <sup>3</sup>	t	t	t
Production	705 406	46 228	2 334	66 413	-
Imports	2	53	23	1 292	383
Exports	-9 680	-5 459	-2 357	-47 409	-4
Intl. marine bunkers	-	-	-	-	-
Stock change	-	-	-	-	-
<b>Domestic supply</b>	<b>695 728</b>	<b>40 822</b>	<b>0</b>	<b>20 296</b>	<b>379</b>
Transfers	-	-	-	-	-
Statistical difference	-	-	-	-	-
<b>Transformations</b>	<b>-82 637</b>	-	-	-	<b>606</b>
Thermal power plants (Main producers)	-	-	-	-	-
Thermal power plants (Autoproducers)	-	-	-	-	-
Cogeneration CHP (Main producers)	-	-	-	-	-
Cogeneration CHP (Autoproducers)	-	-	-	-	-
Heat-only plants (Main producers)	-	-	-	-	-
Heat-only plants (Autoproducers)	-	-	-	-	-
Patent fuel, briquetting and coke plants	-82 637	-	-	-	606
Oil refineries	-	-	-	-	-
Other transformation sector	-	-	-	-	-
<b>Energy sector</b>	-	-	-	-	-
Coal mines	-	-	-	-	-
Thermal power plants and CHPs	-	-	-	-	-
Thermal power plants (Autoproducers)	-	-	-	-	-
Heat-only plants (Autoproducers)	-	-	-	-	-
Patent fuel, briquetting and coke plants	-	-	-	-	-
Hydro power plants	-	-	-	-	-
<b>Distribution losses</b>	-	-	-	-	-
<b>Final consumption</b>	<b>613 091</b>	<b>40 822</b>	-	<b>20 296</b>	<b>985</b>
<b>Industry sector</b>	<b>37 059</b>	-	-	<b>468</b>	<b>(0)</b>
Iron and steel	-	-	-	-	-
Chemical and petrochemical	7 242	-	-	-	-
Non-ferrous metals	-	-	-	-	-
Non-metallic minerals	-	-	-	(0)	-
Transport equipment	-	-	-	-	-
Machinery	2 060	-	-	-	-
Mining and Quarrying	-	-	-	-	-
Food and tobacco	26 928	-	-	(0)	(0)
Paper, pulp and print	-	-	-	-	-
Wood and wood products	829	-	-	-	-
Construction materials	-	-	-	-	-
Textile and Leather	(0)	-	-	(0)	-
Non-specified	(0)	-	-	468	-
<b>Transport</b>	-	-	-	-	-
International civil aviation	-	-	-	-	-
Domestic air	-	-	-	-	-
Road	-	-	-	-	-
Rail	-	-	-	-	-
Pipeline transport	-	-	-	-	-
Internal navigation	-	-	-	-	-
Non-specified	-	-	-	-	-
<b>Other sectors</b>	<b>576 032</b>	<b>40 822</b>	-	<b>19 828</b>	<b>985</b>
Agriculture	2 173	-	-	-	-
Commerce and public services	23 062	1 154	-	3 915	369
Residential	550 797	39 668	-	15 913	616
Non-specified	-	-	-	-	-

**Table 2. Balance of wood fuels in Montenegro, 2018**

	Firewood	Wood residue	Wood chips	Wood pellets	Charcoal
	TJ				
Production	6 473	343	29	1 119	-
Imports	(0)	(0)	(0)	22	11
Exports	-89	-40	-30	-799	(0)
Intl. marine bunkers	-	-	-	-	-
Stock change	-	-	-	-	-
<b>Domestic supply</b>	<b>6384</b>	<b>303</b>	<b>0</b>	<b>342</b>	<b>11</b>
Transfers	-	-	-	-	-
Statistical difference	-	-	-	-	-
<b>Transformations</b>	<b>-758</b>	-	-	-	<b>18</b>
Thermal power plants (Main producers)	-	-	-	-	-
Thermal power plants (Autoproducers)	-	-	-	-	-
Cogeneration CHP (Main producers)	-	-	-	-	-
Cogeneration CHP (Autoproducers)	-	-	-	-	-
Heat-only plants (Main producers)	-	-	-	-	-
Heat-only plants (Autoproducers)	-	-	-	-	-
Patent fuel, briquetting and coke plants	-758	-	-	-	18
Oil refineries	-	-	-	-	-
Other transformation sector	-	-	-	-	-
<b>Energy sector</b>	-	-	-	-	-
Coal mines	-	-	-	-	-
Thermal power plants and CHPs	-	-	-	-	-
Thermal power plants (Autoproducers)	-	-	-	-	-
Heat-only plants (Autoproducers)	-	-	-	-	-
Patent fuel, briquetting and coke plants	-	-	-	-	-
Hydro power plants	-	-	-	-	-
<b>Distribution losses</b>	-	-	-	-	-
<b>Final consumption</b>	<b>5 626</b>	<b>303</b>	-	<b>342</b>	<b>29</b>
<b>Industry sector</b>	<b>340</b>	-	-	<b>8</b>	<b>(0)</b>
Iron and steel	-	-	-	-	-
Chemical and petrochemical	66	-	-	-	-
Non-ferrous metals	-	-	-	-	-
Non-metallic minerals	-	-	-	(0)	-
Transport equipment	-	-	-	-	-
Machinery	19	-	-	-	-
Mining and Quarrying	-	-	-	-	-
Food and tobacco	247	-	-	(0)	(0)
Paper, pulp and print	-	-	-	-	-
Wood and wood products	8	-	-	-	-
Construction materials	-	-	-	-	-
Textile and Leather	(0)	-	-	(0)	-
Non-specified	(0)	-	-	8	-
<b>Transport</b>	-	-	-	-	-
International civil aviation	-	-	-	-	-
Domestic air	-	-	-	-	-
Road	-	-	-	-	-
Rail	-	-	-	-	-
Pipeline transport	-	-	-	-	-
Internal navigation	-	-	-	-	-
Non-specified	-	-	-	-	-
<b>Other sectors</b>	<b>5 286</b>	<b>303</b>	-	<b>334</b>	<b>29</b>
Agriculture	20	-	-	-	-
Commerce and public services	212	9	-	66	11
Residential	5 054	294	-	268	18
Non-specified	-	-	-	-	-

## METHODOLOGICAL EXPLANATIONS

Balance of wood fuels contains annual data on production, import, export, transformation, consumption and distribution of wood fuels in Montenegro in 2018. Data are presented in the natural units of measure and in TJ (terajoule).

The methodology for calculation of balance of wood fuels, definitions and statistical terminology are harmonized with the international IEA/OECD/EUROSTAT standards.

Every well-intentioned suggestion referred from a data users will be accepted with pleasure.

### Data sources (coverage)

The reporting units for balance of wood fuels are companies engaging in the producing and selling/delivering of wood fuels and households. Balance of wood fuels also covers the data from statistical surveys in the area of energy, foreign trade, industry, transport and agriculture.

### Method of data collection

The data are processed using the compilation method.

### Definition

*Gross inland* energy consumption is calculated as follows:

Primary production  
+ Imports  
– Exports  
+ Stock changes  
– Marine bunkers

*Transformation - input* is the consumption of fuels as raw materials for energy production in thermal power plants, CHP, auto producers, district heating plants, refineries, blast furnace plants and coal transformation.

*Transformation - output* covers the production of transformed energy forms (thermoelectricity, heat, petroleum products, blast furnace gas and oxygen steel furnace gas).

*Exchange and transfers* include inter product transferred (distillates), products transferred (hydro energy) and recycled products (naphtha, fuel oil and lubricants).

*Own consumption in energy sector* covers the energy used for energy sector running.

*Distribution losses* include losses incurred in transmission and distribution of energy.

Energy available for final consumption is the energy intended for final consumers.

Final consumption of energy covers final consumption of available energy for energy purposes in:

- industry (iron and steel, non-ferrous metal, chemical industry, non-metal minerals, mining and quarrying, food, drink and tobacco industry, textile, leather and clothing, paper and printing, engineering and other metal industry, other industries);
- transport (rail, road, air, inland, other);
- households, agriculture and other sectors (e.g. education, health, administration, etc.).

*Fuel wood* is wood used directly for heating or production of charcoal.

*Wood pellet* is fuel made from wood mass compressed and extruded through a die. The starting raw material often represents large or small (sawdust) residues from mechanical processing of wood.

*Wood briquette* is wood biofuel of prismatic or cylindrical form obtained from compressing extruded wood material in appropriate presses.

*Charcoal* is a wood residue from mechanical processing of wood products.

## Conversion Equivalents between Units of Energy

Conversion factors for converting energy into various energy units are published in the Manual of Energy Statistics IEA / OECD / Eurostat.

Conversion refers to particular energy unit are shown in Table:

	TJ	Gcal	Mtoe	GWh
TJ	1	238,8	$2,388 \times 10^{-5}$	0,2778
Gcal	$4,1868 \times 10^{-3}$	1	$10^{-7}$	$1,163 \times 10^{-3}$
Mtoe	$4,1868 \times 10^{-4}$	$10^7$	1	11630
GWh	3,6	860	$8,6 \times 10^{-5}$	1

### Unit of measure:

TJ = terajoule  
Gcal = gigacalorie  
Mtoe = milion tones of oil equivalent  
GWh = gigawatt hour  
t = tonne

### Znaci:

- = no occurrence of event  
... = data not available  
0 = value less than 0,5 of the unit of measure  
1) = footnote

It may happen that the total sum does not match the number of individual data, and that the cumulative data is not always equal to the sum of individual quarterly results due to rounding of numbers.

The last published data are considered preliminary, and becomes final within the defined deadline, as foreseen by the Statistical Release Calendar.

(0) - statistics irrelevant data (value not zero but less than 0.5 GWh i 0.2 thous. t unit of measurement)

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