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Preliminary data

Balance of wood fuels

2022

Primary production from firewood and wood resideu and chips in Montenegro in 2022 was 740 014 m3, wood pellets was 85 894 tons.

Final consumption firewood in households was 515 335 m3, in industry 52 314 m3 and other sectors 34 262 m3.

Graph 1. Balance of wood fuels in Montenegro, 2022

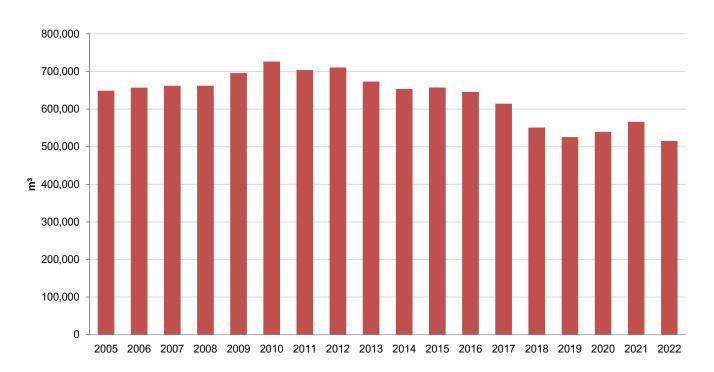


Table 1. Balance of wood fuels in Montenegro, 2022

	Firewood	Wood resideu and chips	Wood pellets	Charcoal
	m³	m³	t	t
Production	740 014	38 565	85 894	
Imports	(0)	-	317	29
Exports	(0)	-	- 65188	
Intl. marine bunkers	-	-	-	
Stock change	_	-	-	
Domestic supply	740 014	38 565	21 023	29
Transfers	-	-	-	
Statistical difference	-	-	-	
Transformations	- 138 103	-	-	1,12
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	- 138 103	-	-	1,12
Oil refineries	-	-	-	
Other transformation sector	_	-	_	
Energy sector	_	-	_	
Coal mines	_	_	_	
Thermal power plants and CHPs	_	_	_	
Thermal power plants (Autoproducers)	_	_	_	
Heat-only plants (Autoproducers)	_	_	_	
Patent fuel, briquetting and coke plants	_	_	_	
Hydro power plants	_	_	-	
Distribution losses	_	_	-	
Final consumption	601 911	38 565	21 023	1 41
Industry sector	52 314	(0)	527	((
Iron and steel	-	-	-	
Chemical and petrochemical	8 709	-	_	
Non-ferrous metals	_	-	-	
Non-metallic minerals	-	-	(0)	
Transport equipment	-	-	-	
Machinery	41 172	-	_	
Mining and Quarrying	_	-	_	
Food and tobacco	964	(0)	(0)	((
Paper, pulp and print	_	-	-	,
Wood and wood products	1 096	_	_	
Construction materials	_	_	_	
Textile and Leather	(0)	_	(0)	
Non-specified	(0)	_	527	
Transport	-	_	-	
International civil aviation	_	_	_	
Domestic air	_	_	_	
Road	_	_	_	
Rail	_	-	_	
	_	-	-	
Pipeline transport	_	<u>-</u>	-	
Internal navigation	_	-	-	
Non-specified Other sectors	549 597	38 565	20 496	1 41
	2 570	30 303	20 490	141
Agriculture Commerce and public services	31 692	- 1 586	- 5 380	77
		1 586	5 JYU	//

Table 2. Balance of wood fuels in Montenegro, 2022

	Firewood	Wood resideu and chips	Wood pellets	Charcoal		
		TJ				
Production	6 791	286	1 447			
Imports	-	-	5			
Exports	-	-	(1 098)			
Intl. marine bunkers	-	-	-			
Stock change	-	-	-			
Domestic supply	6 791	286	354			
Transfers	-	-	-			
Statistical difference	-	-	-			
Transformations	(1 267)	-	-			
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	-	-	-			
Oil refineries	-	-	-			
Other transformation sector	_	_	_			
Energy sector	_	_	_			
Coal mines	_	_	_			
Thermal power plants and CHPs	_	_	_			
Thermal power plants (Autoproducers)	_	_	_			
Heat-only plants (Autoproducers)	_	_	_			
Patent fuel, briquetting and coke plants	(1 267)	_	_			
Hydro power plants	(1201)	_	_			
Distribution losses	_	_	_			
Final consumption	5 523	286	354			
Industry sector	480		9			
ron and steel	-	_	-			
Chemical and petrochemical	80	_	_			
Non-ferrous metals	_	_	_			
Non-metallic minerals	_	_	_			
Transport equipment	_	_	_			
	13		_			
Machinery	13	-	-			
Mining and Quarrying	270	-	-			
Food and tobacco	378	-	-			
Paper, pulp and print	9	-	-			
Wood and wood products	9	-	-			
Construction materials	-	-	-			
Textile and Leather	-	-	-			
Non-specified	-	-	9			
Transport	-	-	-			
nternational civil aviation	-	-	-			
Domestic air	-	-	-			
Road	-	-	-			
Rail	-	-	-			
Pipeline transport	-	-	-			
Internal navigation	-	-	-			
Non-specified	-	-	-			
Other sectors	5 043	286	345			
Agriculture	24	-	-			
Commerce and public services	291	12	91			
Residential	4 729	274	255			

METHODOLOGICAL NOTES

Bilance of wood fuels contains annual data on production, import, export, transformation, consumption and distribution of electricity in Montenegro in 2022. 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.

Data sources (coverage)

The reporting units for balance of wood fuels are companies engaged in the production of wood fuels. Balance of electricity 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

Primary production is a form of energy that has not been converted or transformed (coal, oil, natural gas, biomass, firewood, hydro power energy, geothermal energy, wind energy and solar energy).

Imports and exports cover quantities that crossed the national border.

Marine bunkers cover the quantities delivered for international navigation purposes.

Statistical differences are a category that includes the sum of unknown statistical differences between the production and consumption of selected fuels.

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.).

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 x 10 ⁻⁵	0.2778
Gcal	4,1868 x 10 ⁻³	1	10 ⁻⁷	1,163 x 10 ⁻³
Mtoe	4,1868 x 10 ⁻⁴	10 ⁷	1	11630
GWh	3,6	860	8,6 x 10 ⁻⁵	1

It may happen that the total sum does not match the number of individual data due to rounding of numbers.

When using the data, state: "Data source: Statistical Office of Montenegro - MONSTAT"

More information, as well as detailed methodological explanations can be found in the section: <u>Balance of</u> wood fuels

Unit of measure:

TJ = terajoule Gcal = gigacalorie

Mtoe = milion tones of oil equivalent

GWh = gigawatt hour

t = tonne

Symbol:

- = no occurence of event

... = data not available

(0) = statistics irelevant data (small data value)

1) = footnote