

# STATISTICAL RELEASE

# ZS92

Number 312 - Year LXXI 03/12/2021

**Environmental statistics and accounts division**

SRB312 ZS92 031221

## Material flow indicators, 2020

Material flows include material flows between a national economy and the natural environment, and these consist of the extraction of raw materials and other primary materials from and the discharge into the natural environment, as well as material flows between a national economy and the rest of the world (imports and exports).

The classification of materials<sup>1</sup> used in the Material flow account classifies domestic extracted resources into four categories: biomass (from agriculture, forestry and fishing), metal ores, non-metals (stone, clay, etc.) and fossil fuels (coal, oil, gas).

In 2020, domestic extraction amounted to 129 575 thousand tonnes; compared to the previous year it increased by 5.6%. Observed by categories, the largest share in domestic extraction was noted for the categories of biomass (42 776 thousand tons) and fossil fuels (40 859 thousand tons).

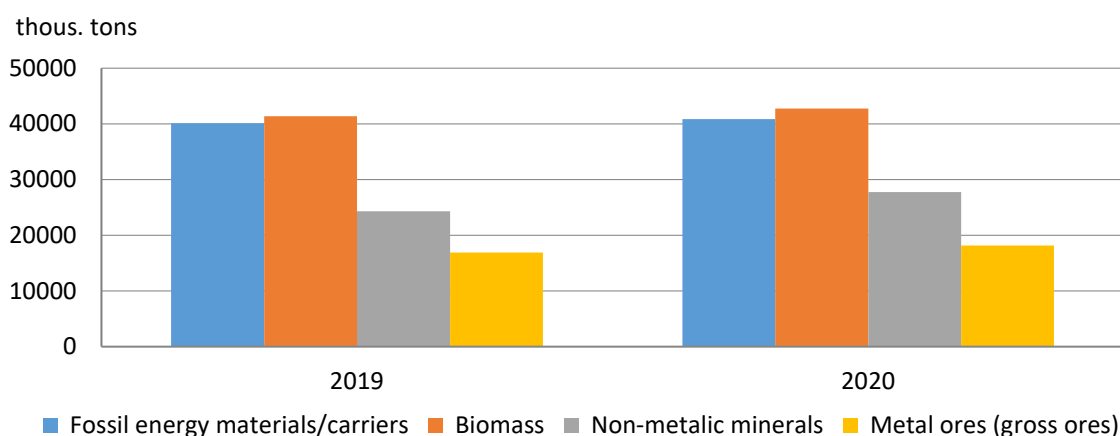
In 2020, the total imports amounted to 18 727 thousand tonnes, which is by 6.3% less when related to 2019. Categories with the largest share in imports were fossil fuels (35.8%) and metal ores (20.0%).

In 2020, the total exports noted the value of 16 091 thousand tonnes, which is by 0.2% more than in 2019. Biomass had the largest share in the total exports (53.0%), followed by metal ores (14.4%).

In 2020, domestic material consumption amounted to 132 211 thousand tons, which is by 4.4% more if compared to 2019. The greatest consumption related to the category of fossil fuels (45 793 thousand tons) and biomass (37 293 thousand tons). In 2020, domestic material consumption per capita amounted to 19.2 ton, i.e. it increased by 1 ton when compared to the previous year.

Resource productivity is the ratio between Gross domestic product (GDP) and domestic material consumption and in 2020, it amounted to 37.2 RSD per kilogram, which is by 5.13% less than in 2019, meaning that increase of material consumption was greater than GDP increase, when related to the previous year.

**Graph 1. Domestic extraction resources, by categories**



<sup>1</sup> Classification of materials used in the Material flow account

- **Biomass** includes organic-non-fossil materials of biological origin. Domestic extraction of biomass includes all biomass of plant origin, caught fish and biomass of caught animals. Biomass of livestock and livestock products (e.g. milk, meat, eggs, etc.) is not included in domestic extraction.
- **Metal ores and non-metals** represent the two largest groups of minerals and consist of ore, construction and industrial minerals.
- **Petroleum resources and other fossil fuel materials** are materials formed from biomass in the geological past. They include materials in solid, liquid and gaseous state.

## 1. Material flow indicators

Republic of Serbia

thous. tonnes

		Domestic extraction resources	Imports	Exports	Domestic material consumption	Physical trade balance
		1	2	3	4=1+2-3	5=2-3
<b>Total</b>	<b>2019</b>	<b>122 687</b>	<b>19 991</b>	<b>16 053</b>	<b>126 625</b>	<b>3 938</b>
	<b>2020</b>	<b>129 575</b>	<b>18 727</b>	<b>16 091</b>	<b>132 211</b>	<b>2 637</b>
Biomass	2019	41 381	2 870	7 961	36 290	-5 091
	2020	42 776	3 040	8 523	37 293	-5 483
Metal ores	2019	16 895	5 130	2 793	19 232	2 337
	2020	18 164	3 748	2 323	19 589	1 425
Non-metallic minerals	2019	24 299	3 276	2 393	25 182	883
	2020	27 776	3 895	2 198	29 473	1 697
Fossil fuels	2019	40 112	7 514	1 668	45 958	5 845
	2020	40 859	6 705	1 771	45 793	4 934
Other	2019	-	1 202	1 237	-35	-35
	2020	-	1 339	1 275	64	64

## 2. Resource efficiency indicators

Republic of Serbia

	2019	2020
Domestic material consumption per capita (tonnes)	18.2	19.2
Resource productivity (RSD per kg)	39.2 <sup>1)</sup>	37.2 <sup>2)</sup>

<sup>2)</sup> Preliminary data.

<sup>1)</sup> Revised/ corrected data.

The basic principles and methods for creating accounts of material flows for the level of total economy, as well as the results for the Republic of Serbia were presented in the publication [“Material flow indicators of the Republic of Serbia, 2001–2011”](#) and can be found at SORS website.

Data series of material flow indicators are available at SORS website, in the [database](#) with [methodological explanation](#).

Starting from 1999 the Statistical Office of the Republic of Serbia has not at disposal and may not provide available data relative to AP Kosovo and Metohija and therefore these data are not included in the coverage for the Republic of Serbia (total).

Contact: [bojana.krzalic@stat.gov.rs](mailto:bojana.krzalic@stat.gov.rs) Phone: 011 3087001

Published and printed by: Statistical Office of the Republic of Serbia, 11 050 Belgrade, Milana Rakica 5

Phone: +381 11 2412922 (telephone exchange) • Fax: +381 11 2411260 • [www.stat.gov.rs](http://www.stat.gov.rs)

Responsible: Dr Miladin Kovačević, Director

Circulation: 20 • Issued annually