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GODINA/YEAR VI

SARAJEVO, 17.6.2025.

BROJ/NUMBER 1

RAČUNI OKOLIŠA

ENVIRONMENTAL ACCOUNTS

Računi protoka materijala, 2019. – 2023.

Material Flow Accounts, 2019- 2023

Računi protoka materijala pružaju informacije o materijalnim tokovima između privrede i okoliša, a oni se sastoje od vađenja sirovina i drugih primarnih materijala i ispuštanja u okoliš, kao i materijalnih tokova između nacionalne privrede i ostatka svijeta (uvoz i izvoz).

Vrijednost izravnog unosa materijala u ekonomiju u 2023. godini (domaće vađenje + uvoz) je manji 6,3% u odnosu na prethodnu godinu, dok je domaća potrošnja materijala u zemlji manja za 5,8%. Uvezeno je 4,8% manje materijala, dok je izvoz materijala manji za 7,9%. Količina domaćeg vađenja resursa u 2023. godini je manja za 6,7% u odnosu na prethodnu godinu.

Material flow accounts provide information on material flows between the economy and the environment, and they consist of the extraction of raw materials and other primary materials from environment and the discharge into the environment, as well as material flows between the national economy and the rest of the world (import and exports).

The value of direct material input into the economy in 2023 (domestic extraction + import) is 6.3% lower compared to the previous year, while domestic material consumption in the country is 5.8% lower. Import decreased by 4.8%, while the value of export decreased by 7.9% than the previous year. The amount of domestic extraction in 2023 is 6.7% lower than in the previous year.

1. Domaće vađenje materijala, Bosna i Hercegovina, 2019. – 2023.

Domestic extraction, Bosnia and Herzegovina, 2019 - 2023

000 tona
000 tonnes

	2019.	2020.	2021.	2022.	2023.
Ukupno <i>Total</i>	37 017*	38 189*	36 931*	37 695*	35 170*
Biomasa <i>Biomass</i>	6 712*	9 109*	7 701*	7 615*	7 204*
Metalne rude <i>Metal ores</i>	3 042	2 463	2 681	2 389	2 195
Nemetalni minerali <i>Non-metallic minerals</i>	11 886	13 081	13 748	13 954	12 979
Fosilna goriva <i>Fossil energy materials/carriers</i>	13 377	13 536	12 803	13 737	12 792

* Podaci su revidirani
* Data has been revised

Količina domaćeg vađenja materijala u 2023. godini je 35,2 milijuna tona, što je manje 6,7% u odnosu na 2022. godinu. U odnosu na prethodnu godinu, količina izvađene biomase u 2023. godini je manja za 5,4%, a fosilnih energetske sirovina manja je za 6,9%. Količina metalne rude je manja za 8,1% te je smanjena ekstrakcija nemetalnih minerala za 7,0%

Domestic extraction of materials in 2023 was 35.2 million tonnes, which was 6.7% lower than in 2022. Compared to the previous year, the amount of extracted biomass decreased by 5.4%, and fossil energy materials decreased by 6.9%. Extraction of metal ores less by 8.1% and extraction of non-metallic minerals lower by 7.0%.

2. Uvoz, Bosna i Hercegovina, 2019. – 2023.

Import, Bosnia and Herzegovina, 2019 - 2023

000 tona
000 tonnes

	2019.	2020.	2021.	2022.	2023.
Ukupno <i>Total</i>	10 416	9 179	9 982	11 051	10 524
Biomasa i proizvodi od biomase <i>Biomass and biomass products</i>	3 027	2 842	2 783	3 271	3 123
Metalne rude i koncentracije, sirovi i prerađeni <i>Metal ores and concentrates, raw and processed</i>	1 494	1 069	1 356	1 910	1 892
Nemetalni minerali, sirovi i prerađeni <i>Non-metallic minerals, raw and processed</i>	1 426	1 302	1 400	1 473	1 332
Fosilna goriva <i>Fossil energy materials/carriers</i>	3 807	3 339	3 756	3 651	3 459
Ostali proizvodi <i>Other products</i>	627	592	645	697	667
Otpad uvezen radi konačne obrade i odlaganja <i>Waste exported for final treatment and disposal</i>	35	36	41	49	50

Uvezeno je 10,5 milijuna tona materijala u 2023. godini, 4,8% manje u poređenju s prethodnom godinom. Manje je uvezeno biomase i proizvoda od biomase (4,5%). Manje od prethodne godine uvezeno je nemetalnih minerala (9,6%), metalne rude i koncentrata (1,0%) i manje fosilnih energetske sirovina (5,2%).

The amount of imported materials in 2023 was 10.5 million tonnes, which is 4.8% less than the previous year. It imported less biomass and biomass products (4.5%), Less than the previous year, non-metallic minerals were imported (9.6%), metal ores and concentrates (1.0%), and less fossil energy materials (2.8%).

3. Izvoz, Bosna i Hercegovina, 2019. – 2023.

Export, Bosnia and Herzegovina, 2019 – 2023

000 tona
000 tonnes

	2019.	2020.	2021.	2022.	2023.
Ukupno <i>Total</i>	8 740	8 345	9 304	11 288	10 401
Biomasa i proizvodi od biomase <i>Biomass and biomass products</i>	2 039	1 956	2 184	2 575	2 342
Metalne rude i koncentrat, sirovi i prerađeni <i>Metal ores and concentrates, raw and processed</i>	1 585	1 400	1 775	1 844	1 603
Nemetalni minerali, sirovi i prerađeni <i>Non-metallic minerals, raw and processed</i>	3 042	3 179	3 293	3 765	3 533
Fosilna goriva <i>Fossil energy materials/carriers</i>	783	652	769	1 543	1 474
Ostali proizvodi <i>Other products</i>	1 289	1 159	1 282	1 560	1 447
Otpad izvezen radi konačne obrade i odlaganja <i>Waste exported for final treatment and disposal</i>	1	1	1	1	3

Izvoz materijala u 2023. godini je iznosio 10,4 milijuna tona, što je za 7,9% manje u odnosu s prethodnom godinom. Zabilježen je manji izvoz biomase i proizvoda od biomase (9,1%), metalne rude i koncentrata (13,1%), fosilnih energetskih sirovina za (4,5%). Pad je zabilježen kod izvoza nemetalnih minerala i to za 6,2%.

Exports of materials in 2023 amounted to 10.4 million tonnes, which is 7.9% less than in the previous year. Compared to the 2022, there were less exports of biomass and biomass products (9.1%), metal ores and concentrates (13.1%), fossil energy raw materials for (4.5%). An decrease was recorded in exports of non-metallic minerals by 6.2%.

4. Indikatori protoka materijala, Bosna i Hercegovina, 2023.

Material flow indicators, Bosnia and Herzegovina, 2023

000 tona
000 tonnes

	Domaće vađenje <i>Domestic extraction</i>	Uvoz <i>Import</i>	Izvoz <i>Export</i>	Izravni unos materijala ¹⁾ <i>Direct material input¹⁾</i>	Domaća potrošnja materijala ²⁾ <i>Domestic material consumption²⁾</i>	Fizička trgovinska bilanca ³⁾ <i>Physical trade balance³⁾</i>
	1	2	3	4 = 1 + 2	5 = 4 - 3	6 = 2 - 3
Materijali, ukupno <i>Materials, total</i>	35 170	10 524	10 401	45 694	35 293	123
Biomasa i proizvodi od biomase <i>Biomass and biomass products</i>	7 204	3 123	2 342	10 327	7 985	781
Metalne rude i koncentрати, sirovi i prerađeni <i>Metal ores and concentrates, raw and processed</i>	2 195	1 892	1.603	4 087	2 484	289
Nemetalni minerali, sirovi i prerađeni <i>Non-metallic minerals, raw and processed</i>	12 979	1 332	3 533	14 311	10 778	-2 201
Fosilna goriva <i>Fossil energy materials/carriers</i>	12 792	3 459	1 474	16 251	14 777	1 985
Ostali proizvodi <i>Other products</i>	0	667	1 447	667	-780	-780
Otpad <i>Waste</i>	0	50	3	50	47	47

1) Izravni unos materijala (DMI) = domaće vađenje + uvoz
Direct material input (DMI) = domestic extraction + import

2) Domaća potrošnja materijala (DMC) = domaće vađenje + uvoz – izvoz
Domestic material consumption (DMC) = domestic extraction + import – export

3) Fizička trgovinska bilanca (PTB) = uvoz – izvoz
Physical trade balance (PTB) = import – export

U 2023. godini je izravno uvedeno u ekonomiju gotovo 45,7 milijuna tona materijala (76,9% iz domaćih izvora, 23,1% iz uvoza), 6,3% manje nego u prethodnoj godini. Domaća potrošnja materijala u zemlji iznosila je 35,3 milijuna tona, te je manje za 5,8% nego u 2022. godini. Uvoz materijala je manji za 4,8% kao i izvoz za 7,9%. Bilanca fizičke trgovine u 2023. godini iznosila je 123 milijuna tona, što znači da je u 2023. godini uvezeno 123 milijuna tona materijala više nego što je izvezeno.

In 2023, the direct material input was almost 45.7 million tonnes (76.9% from domestic sources, 23.1% from imports), 6.3% less than in the previous year. Domestic material consumption in the country was 35.3 million tonnes, which was 5.8% less than in 2022. Imports of materials decreased by 4.8% and exports by 7.9%. The physical trade balance in 2023 was 123 million tons, which means that in 2023, 123 million tons more materials were imported than exported..

5. Indikatori protoka materijala, Bosna i Hercegovina, 2019. – 2023.

Material flow indicators, Bosnia and Herzegovina, 2019 – 2023

000 tona
000 tonnes

	2019.	2020.	2021.	2022.	2023.
Domaće vađenje <i>Domestic extraction</i>	37 017*	38 189*	36 931*	37 695*	35 170
Uvoz <i>Import</i>	10 416	9 179	9 982	11 051	10 524
Izvoz <i>Export</i>	8 740	8 345	9 304	11 288	10 401
Izravni unos materijala ¹⁾ <i>Direct material input¹⁾</i>	47 433	47 369	46 914	48 746	45 694
Domaća potrošnja materijala ²⁾ <i>Domestic material consumption²⁾</i>	38 694	39 023	37 610	37 458	35 293
Fizička trgovinska bilanca ³⁾ <i>Physical trade balance³⁾</i>	1 676	834	679	-237	-237

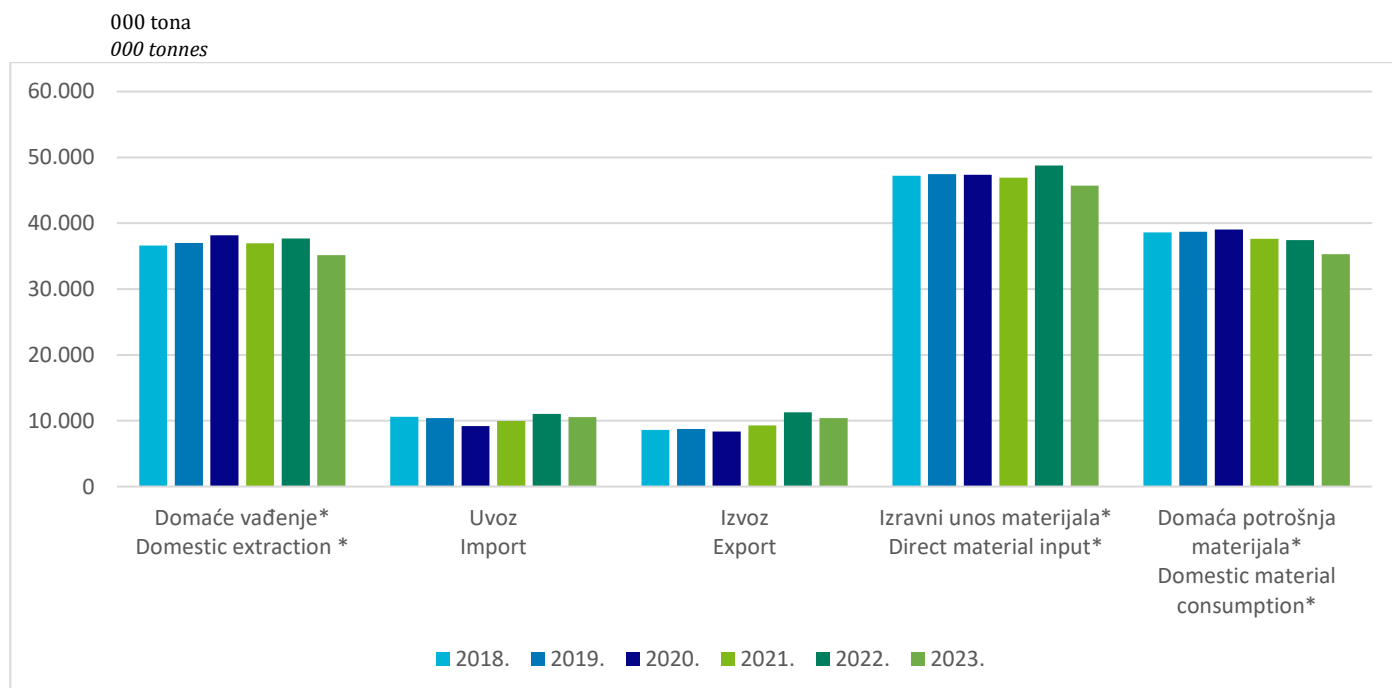
- 1) Izravni unos materijala (DMI) = domaće vađenje + uvoz
Direct material input (DMI) = domestic extraction + import
- 2) Domaća potrošnja materijala (DMC) = domaće vađenje + uvoz – izvoz
Domestic material consumption (DMC) = domestic extraction + import – export
- 3) Fizička trgovinska bilanca (PTB) = uvoz – izvoz
Physical trade balance (PTB) = import – export

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Grafikon 1. Indikatori protoka materijala, Bosna i Hercegovina, 2019. – 2023.

Graph 1. Material flow indicators, Bosnia and Herzegovina, 2019 – 2023



Metodologija

Sustav okolišno-ekonomskih računa (SEEA) za protok materijala pruža informacije o materijalnim ulazima i izlazima ekonomije koristeći strukture i principe postavljene u Središnjem okviru SEEA. SEEA računi protoka materijala pružaju zbirni pregled ulaznih i izlaznih podataka u smislu inputa iz okoline, izlaza u okoliš i fizičkih količina uvoza i izvoza. Razumijevanje protoka materijala u cijeloj ekonomiji presudno je za razumijevanje korištenja resursa u ekonomiji i eko-efikasnosti.

Računi protoka materijala (EW-MFA) su jedan od nekoliko fizičkih modula Eurostatova programa ekonomskih računa okoliša. Obuhvaćeni su Regulativom (EU) br. 691/2011 Europskog parlamenta i Vijeća o Europskim ekonomskim računima za okoliš.

Računi protoka materijala (EW-MFA) bilježe protoke prirodnih inputa (domaće vađenje materijala) i proizvoda (izvoz, uvoz) s pomoću detaljne podjele za određene kategorije materijala. EW-MFA uključuje sljedeće kategorije materijala:

- Biomasa i proizvodi od biomase: usjevi i njihovi proizvodi, ostaci od usjeva i krme,
- Metalne rude i koncentracije te njihovi proizvodi,
- Nemetalni minerali i njihovi proizvodi,
- Fosilna goriva i njihovi proizvodi (ugljen, nafta, plin itd.),
- Ostali proizvodi,
- Otpad za konačnu obradu ili odlaganje.

Definicije

Biomasa je biorazgradivi dio proizvoda, ostatka proizvoda i otpadaka od poljoprivrede (uključivo s biljnim i životinjskim tvarima), šumarstva i drvne industrije te biorazgradivi dio komunalnog i industrijskog otpada čije je energetske korištenje dopušteno.

Minerali su prirodno homogena tijela stalnoga kemijskog sastava i utvrđenih fizičkih svojstava koji se javljaju ili u određenim geometrijskim oblicima (kristalima) ili bez određenih vanjskih obilježja.

Ruda je mineralni agregat iz kojega je tehnički moguće i ekonomski opravdano dobivanje metala i/ili drugih minerala koji se mogu upotrijebiti u industriji.

Koncentracije su produkti obogaćivanja ruda znatno povećanim sadržajem metala u odnosu na sadržaje u rudi i pogodni za daljnju metaluršku preradu i dobivanje metala.

Nemetalne mineralne sirovine su one sirovine koje nam pri topljenju ne daju novu sirovinu, a obično su vezane za sedimentne stijene (kvarcne sirovine, gline, gips, sol, dolomit, fosforit, grafit, boksit i cementne sirovine).

Methodology

The System of Environmental-Economic Accounts (SEEA) for material flow provide information on material inputs and outputs of an economy using the structures and principles laid out in the SEEA Central Framework. The SEEA Material Flow Accounts can provide an aggregate overview of the inputs and outputs in terms of inputs from the environment, outputs to the environment, and the physical amounts of imports and exports. Understanding economy-wide material flow is critical to understanding resource use by the economy and eco-efficiency.

The material flow accounts (EW-MFA) are one of the several physical modules of the Eurostat's program of environmental economic accounts. They are covered in the Regulation (EU) No 691/2011 of the European Parliament and the Council on European environmental economic accounts.

Economy-wide material flow accounts (EW-MFA) record flows of natural inputs (domestic extraction of materials) and products (exports, imports) using a detailed breakdown for certain categories of materials. EW-MFA includes the following categories of materials:

- *Biomass and biomass products: crops and products thereof, crop residues and fodder crops,*
- *Metal ores and concentrates and products thereof,*
- *Non-metallic minerals and products thereof,*
- *Fossil energy material/carriers and products thereof (coal, oil, gas etc.),*
- *Other products,*
- *Waste for final treatment and disposal.*

Definitions

Biomass refers to the biodegradable components of products, waste and residue of agriculture (including plant and animal matter), forestry and wood industries, as well as biodegradable parts of municipal and industrial waste, the energy usage of which is allowed.

Minerals are natural homogeneous bodies of permanent chemical composition and determined physical characteristics that occur in specific geometric forms (crystals) or undetermined physical characteristics.

Ore is a mineral aggregate from which it is technically viable and economically justifiable to produce metals and/or other minerals usable in industry.

Concentrates are products of ore enrichment that have a significantly increased metal content compared to ore contents and are appropriate for further metallurgic processing and production of metal.

Non-metallic mineral raw material are the raw materials which do not produce new raw materials as a result of melting, and are usually integrated in sedimentary rocks (quartz raw materials, clay, salt, dolomite, phosphorite, graphite, bauxite and cement raw materials).

Fosilna energija (gorivo) nastala je prirodnim putem ispod Zemljine površine tijekom dugog razdoblja od ostataka živih bića. Fosilna goriva neobnovljivi su izvori energije. Postoje tri glavna oblika fosilnih goriva: ugljen, nafta i prirodni plin.

Otpad je svaka tvar ili predmet koji posjednik odbacuje, namjerava ili mora odbaciti. Otpadom se smatra i svaki predmet i tvar čije su sakupljanje, prijevoz i obrada nužni za svrhu zaštite javnog interesa.

Domaće vađenje materijala (DE) jest godišnja količina sirovina (osim vode i zraka) koja se dobiva iz prirodnog okoliša, a upotrebljava se u ekonomiji.

Domaća potrošnja materijala (DMC) definira se kao ukupna količina materijala koja se izravno upotrebljava u ekonomiji.

Domaća potrošnja materijala (DMC) = domaće vađenje + uvoz – izvoz

Izravni unos materijala (DMI) = domaće vađenje + uvoz

Fizička trgovinska bilanca (PTB) računa se tako da se od količine uvoza izražene u fizičkim jedinicama oduzme količina izvoza izražena u fizičkim jedinicama na sljedeći način:

Fizička trgovinska bilanca (PTB) = uvoz – izvoz

Kratice

EU – Europska unija

Eurostat – Statistički ured Europske unije

Znakovi

0 – podatak je manji od 0.5 upotrijebljene mjerne jedinice

Fossil energy (fuel) is produced naturally beneath Earth's surface during a long period of time from biological remains. Fossil fuels are renewable energy sources. There are three main forms of fossil fuels: coal, oil and natural gas.

Waste is every substance or object that was, is going to be or has to be discarded by its owner. Every discarded object and substance gathering, transport and processing which are necessary for the protection of the public interest is considered waste.

Domestic extraction (DE) is the annual amount of raw materials (except for water and air) extracted from the natural environment to be used in the economy.

Domestic material consumption (DMC) is defined as the total amount of material directly used in the economy.

Domestic material consumption (DMC) = domestic extraction + import – export

Direct material input (DMI) = domestic extraction + import

Physical trade balance (PTB) is calculated by subtracting the amount of export in physical units from the amount of import in physical units, as follows:

Physical trade balance (PTB) = import – export

Abbreviations

EU – European Union

Eurostat – Statistical Office of the European Communities

Symbols

0 – value not zero but less than 0.5 of the unit measure used

Publikuje Agencija za statistiku Bosne i Hercegovine, 71000 Sarajevo, Zelenih beretki 26
Published by the Agency for Statistics of the Bosnia and Herzegovina, 71000 Sarajevo, Zelenih beretki 26

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