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GODINA/YEAR III

SARAJEVO, 21. 06. 2021.

BROJ/NUMBER 1

RAČUNI OKOLIŠA

ENVIRONMENTAL ACCOUNTS

Računi protoka materijala, 2017. – 2019.

Material Flow Accounts, 2017 - 2019

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

Vrijednost neposrednog unosa materijala u ekonomiju u 2019. godini (domaće vađenje + uvoz) je veća za 0,4% u odnosu na prethodnu godinu, dok je domaća potrošnja materijala u zemlji veća za 0,1%. Uvezeno je 1,3% manje materijala, a izvezeno 1,9% više materijala. Količina domaćeg vađenja resursa u 2019. godini je veća za 0,9% u odnosu na prethodnu godinu.

Fizička trgovinska bilanca u 2019. je za 15% niža nego u 2018. godini.

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 the direct material input into the economy in 2019 (domestic extraction + import) was higher by 0.4% compared to the previous year, while the domestic material consumption in the country was higher by 0.1%. The value of import was 1.3% less than previous year, and value of export was 1.9% higher. The amount of domestic extraction in 2019 was higher by 0.9% compared to the previous year.

Physical trade balance in 2019 was 15% lower than in 2018.

1. Domaće vađenje materijala, Bosna i Hercegovina, 2017. – 2019.

Domestic extraction, Bosnia and Herzegovina, 2017 - 2019

000 tona
000 tonnes

	2017.	2018.	2019.
Ukupno <i>Total</i>	35 829 ¹⁾	37 885 ¹⁾	38 215 ¹⁾
Biomasa <i>Biomass</i>	8 775	10 346	9 952
Metalne rude <i>Metal ores</i>	2 866	2 631	3 001
Nemetalni minerali <i>Non-metallic minerals</i>	10 105	10 402	11 886
Fosilna goriva <i>Fossil energy materials/carriers</i>	14 084	14 505	13 377

1) Ukupno ne odgovara zbroju pojedinih stavki zbog iskazivanja u tisućama.
The sum total is not equal the sum of individual items due to the expression of numbers in thousands.

Količina domaćeg vađenja materijala u 2019. godini je 38,2 milijuna tona, što je za 0,9% više u odnosu na 2018. godinu. U odnosu na prethodnu godinu, količina izvađene biomase u 2019. godini je manja za 3,8%, količina metalne rude je za 14% veća, ekstrakcija nemetalnih minerala za 14,3% veća, a fosilnih energetskih sirovina za 7,8% niža.

Domestic extraction of materials in 2019 was 38.2 million tonnes, which was 0.9% more than in 2018. Compared to the previous year, the amount of extracted biomass decreased by 3.8%, extraction of metal ores increased by 14%, extraction of non-metallic minerals increased by 14.3%, and fossil energy materials decreased by 7.8%.

2. Uvoz, Bosna i Hercegovina, 2017. - 2019.

Import, Bosnia and Herzegovina, 2017 - 2019

000 tona
000 tonnes

	2017.	2018.	2019.
Ukupno <i>Total</i>	10 494 ¹⁾	10 567	10 430 ¹⁾
Biomasa i proizvodi od biomase <i>Biomass and biomass products</i>	3 092	2 983	3 032
Metalne rude i koncentracije, sirovi i prerađeni <i>Metal ores and concentrates, raw and processed</i>	1 254	1 527	1 497
Nemetalni minerali, sirovi i prerađeni <i>Non-metallic minerals, raw and processed</i>	1 482	1 369	1 426
Fosilna goriva <i>Fossil energy materials/carriers</i>	4 039	4 034	3 807
Ostali proizvodi <i>Other products</i>	622	627	634
Otpad uvezen radi konačne obrade i odlaganja <i>Waste exported for final treatment and disposal</i>	4	27	35

1) Ukupno ne odgovara zbroju pojedinih stavki zbog iskazivanja u tisućama.
The sum total is not equal the sum of individual items due to the expression of numbers in thousands.

Uvezeno je 10,4 milijuna tona materijala u 2019. godini, 1,3% manje u usporedbi s prethodnom godinom. Više je uvezeno biomase i proizvoda od biomase (1,7%), nemetalnih minerala (4,2%), ostalih proizvoda (1,1%) i otpada radi konačne obrade i odlaganja (28%). Manje je uvezeno fosilnih energetskih supstanci (5,6%) i metalne rude i koncentrate (2%).

The amount of imported materials was 10.4 million tonnes, which is 1.3% less than the previous year. It was imported more biomass and biomass products (1.7%), non-metallic minerals (4.2%), other products (1.1%) and waste for final processing and disposal (28%). The fossil energy substances (5.6%) and metal ores and concentrates (2%) were imported less.

3. Izvoz, Bosna i Hercegovina, 2017. – 2019.

Export, Bosnia and Herzegovina, 2017 – 2019

000 tona
000 tonnes

	2017.	2018.	2019.
Ukupno <i>Total</i>	8 379 ¹⁾	8 589	8 749 ¹⁾
Biomasa i proizvodi od biomase <i>Biomass and biomass products</i>	2 603	2 343	2 040
Metalne rude i koncentracije, sirovi i prerađeni <i>Metal ores and concentrates, raw and processed</i>	1 583	1 660	1 593
Nemetalni minerali, sirovi i prerađeni <i>Non-metallic minerals, raw and processed</i>	1 932	2 194	3 042
Fosilna goriva <i>Fossil energy materials/carriers</i>	1 009	1 102	783
Ostali proizvodi <i>Other products</i>	1 251	1 290	1 291
Otpad izvezen radi konačne obrade i odlaganja <i>Waste exported for final treatment and disposal</i>	0	0	1

1) Ukupno ne odgovara zbroju pojedinih stavki zbog iskazivanja u tisućama.

The sum total is not equal the sum of individual items due to the expression of numbers in thousands.

Izvoz materijala u 2019. godini je iznosio 8,7 milijuna tona, što je za 1,9% više u odnosu sa prethodnom godinom. Zabilježen je manji izvoz biomase i proizvoda od biomase (12,9%), metalne rude i koncentrata (4%), fosilnih energetske supstanci (29%), dok je izvoz nemetalnih minerala veći za 38,6%.

Exports of materials in 2019 amounted to 8.7 million tonnes, which is 1.9% more than in the previous year. Compared to the 2018, there were lower exports of biomass and biomass products (12.9%), metal ores and concentrates (4%), fossil fuels (29%), while exports of non-metallic minerals increased by 38.6%.

4. Pokazatelji protoka materijala, Bosna i Hercegovina, 2019.

Material flow indicators, Bosnia and Herzegovina, 2019

000 tona
000 tonnes

	Domaće vađenje <i>Domestic extraction</i>	Uvoz <i>Import</i>	Izvoz <i>Export</i>	Neposredni unos materijala ²⁾ <i>Direct material input²⁾</i>	Domaća potrošnja materijala ³⁾ <i>Domestic material consumption³⁾</i>	Fizička trgovinska bilanca ⁴⁾ <i>Physical trade balance⁴⁾</i>
	1	2	3	4 = 1 + 2	5 = 4 - 3	6 = 2 - 3
Materijali, ukupno <i>Materials, total</i>	38 215 ¹⁾	10 430 ¹⁾	8 749 ¹⁾	48 646 ¹⁾	39 896 ¹⁾	1 681
Biomasa i proizvodi od biomase <i>Biomass and biomass products</i>	9 952	3 032	2 040	12 984	10 944	992
Metalne rude i koncentрати, sirovi i prerađeni <i>Metal ores and concentrates, raw and processed</i>	3 001	1 497	1 593	4 497	2 904	-96
Nemetalni minerali, sirovi i prerađeni <i>Non-metallic minerals, raw and processed</i>	11 886	1 426	3 042	13 312	10 270	-1 615
Fosilna goriva <i>Fossil energy materials/carriers</i>	13 377	3 807	783	17 183	16 400	3 024
Ostali proizvodi <i>Other products</i>	0	634	1 291	634	-658	-658
Otpad <i>Waste</i>	0	35	1	35	34	34

- 1) Ukupno ne odgovara zbroju pojedinih stavki zbog iskazivanja u tisućama.
The sum total is not equal the sum of individual items due to the expression of numbers in thousands
- 2) Neposredni unos materijala (DMI) = domaće vađenje + uvoz
Direct material input (DMI) = domestic extraction used + import
- 3) Domaća potrošnja materijala (DMC) = domaće vađenje + uvoz – izvoz
Domestic material consumption (DMC) = domestic extraction used + import – export
- 4) Fizička trgovinska bilanca (PTB) = uvoz – izvoz
Physical trade balance (PTB) = import – export

U 2019. godini je neposredno uvedeno u ekonomiju 48,6 milijuna tona materijala (78,6% iz domaćih izvora, 21,4% iz uvoza), 0,4% više nego u prethodnoj godini. Domaća potrošnja materijala u zemlji je veća za 0,1%. Uvezeno je 1,3% manje materijala, a izvezeno 1,9% više. Bilanca fizičke trgovine u 2019. godini iznosio je 1,7 milijuna tona, 15% manje u odnosu na prethodnu godinu, što znači da je u 2019. godini uvezeno 1,7 milijuna tona materijala više od izvoza.

In 2019, the direct material input was 48.6 million tonnes (78.6% from domestic sources and 21.4% from imports), 0.4% more than in the previous year. Domestic material consumption in the country was 39.9 million tonnes, which was 0.1% more than in 2018. There was 1.3% less materials imported and 1.9% more was exported. The physical trade balance in 2019 was 1.7 million tonnes, which was 15% less than in the previous year. This means that 1.7 million tonnes more materials were imported than exported in 2019.

5. Pokazatelji protoka materijala, Bosna i Hercegovina, 2017. – 2019.

Material flow indicators, Bosnia and Herzegovina, 2017 – 2019

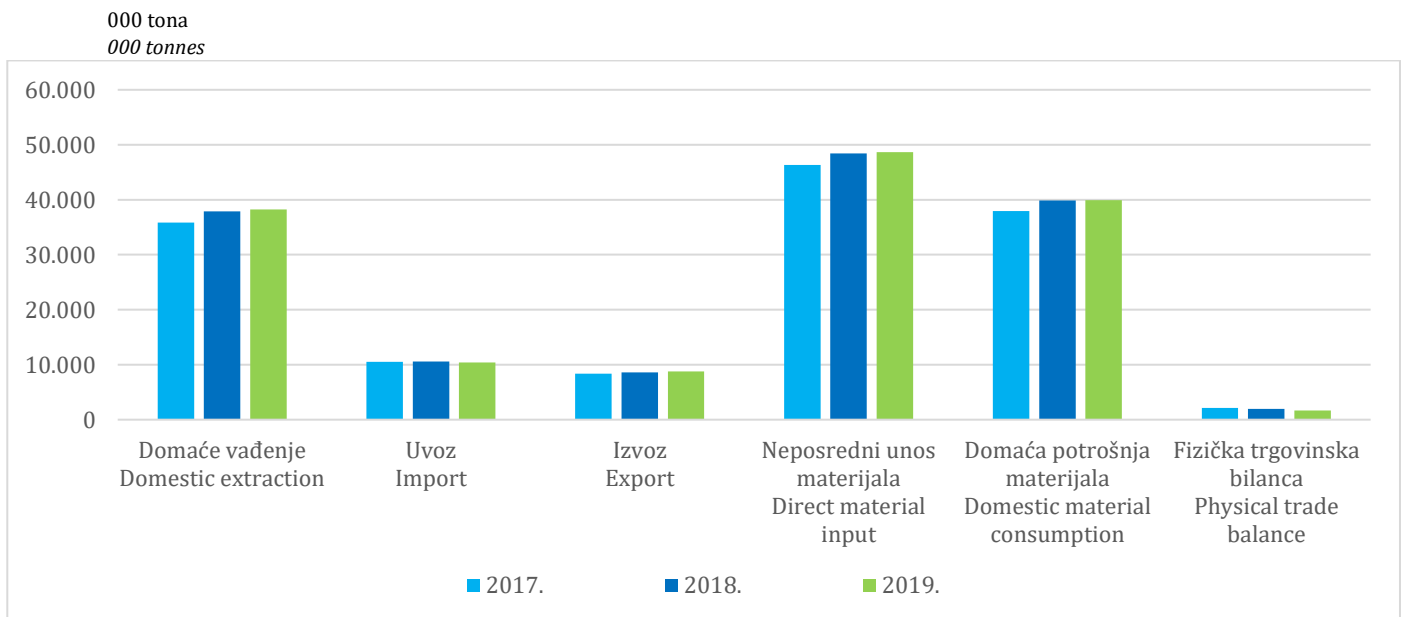
000 tona
000 tonnes

	2017.	2018.	2019.
Domaće vađenje Domestic extraction	35 829	37 885	38 215
Uvoz Import	10 494	10 567	10 430
Izvoz Export	8 379	8 589	8 749
Neposredni unos materijala ²⁾ Direct material input ²⁾	46 323	48 452	48 646 ¹⁾
Domaća potrošnja materijala ³⁾ Domestic material consumption ³⁾	37 944	39 863	39 896
Fizička trgovinska bilanca ⁴⁾ Physical trade balance ⁴⁾	2 115	1 978	1 681

- 1) Ukupno ne odgovara zbroju pojedinih stavki zbog iskazivanja u tisućama.
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Direct material input (DMI) = domestic extraction used + import
- 3) Domaća potrošnja materijala (DMC) = domaće vađenje + uvoz – izvoz
Domestic material consumption (DMC) = domestic extraction used + import – export
- 4) Fizička trgovinska bilanca (PTB) = uvoz – izvoz
Physical trade balance (PTB) = import – export

Grafikon 1. Pokazatelj protoka materijala, Bosna i Hercegovina, 2017. – 2019.

Graph 1. Material flow indicators, Bosnia and Herzegovina, 2017 – 2019



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.

Korištenje domaćeg vađenja (DEU) 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

Neposredni 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 used (DEU) 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 used + import – export

Direct material input (DMI) = domestic extraction used + 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

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