

## BILANS ELEKTRIČNE I TOPLOTNE ENERGIJE, 2023.

### BALANCE OF ELECTRICITY AND HEAT, 2023

Bruto proizvodnja električne energije u FBiH u 2023. godini iznosila je 8.509 GWh, od čega je u termoelekttranama proizvedeno 4.075 GWh ili 47,9%, u hidroelekttranama 3.595 GWh ili 42,3%, u industrijskim energanama 353 GWh ili 4,1%, proizvodnja u vjetroelekttranama iznosi 356 GWh ili 4,2%, dok proizvodnja solarne energije iznosi 130 GWh ili 1,5%.

Sopstvena potrošnja u elekttranama iznosila je 623 GWh.

U finalnoj potrošnji električne energije u 2023. godini, domaćinstva učestvuju sa 49,7%, industrijski sektor učestvuje sa 21,9%, a ostali potrošači, uključujući građevinarstvo, prijevoz i poljoprivredu, učestvuju sa 28,4%.

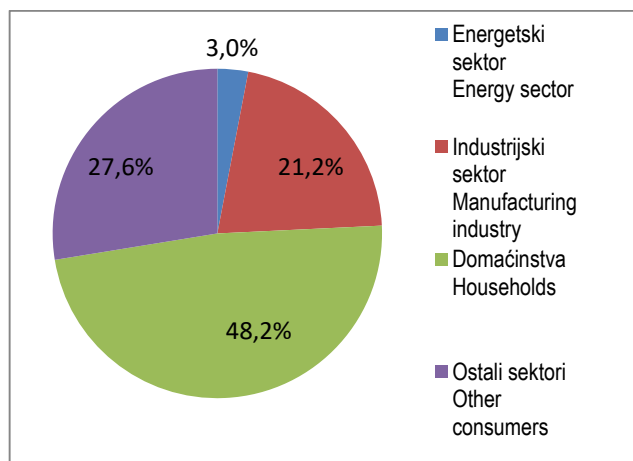
Najveće učešće u potrošnji električne energije u 2023. godini, u industrijskom sektoru, je u proizvodnji željeza i čelika 19,1%.

Ukupna proizvodnja toplotne energije u 2023. godini je 4.323 TJ, od čega je 2.161 TJ ili 50,0% proizvedeno u toplanama, 1.516 TJ ili 35,1% u termoelekttranama, a 646 TJ ili 14,9% u industrijskim energanama.

U finalnoj potrošnji toplotne energije u 2023. godini najveće učešće imaju domaćinstva 76,9%, a prerađivačka industrija i ostali potrošači 23,1%.

### Potrošnja električne energije po sektorima, FBiH, 2023

Electricity consumption by sectors, FBiH, 2023



Gross electricity production in the FBiH in 2023 amounted to 8.509 GWh, of which 4.075 GWh or 47,9% was produced in thermal power plants, 3.595 GWh in hydropower plants or 42,3%, in autoproducers 353 GWh or 4,1%, production wind power plants is 356 GWh or 4,2% while production of solar energy is 130 GWh or 1,5%.

Own consumption in power plants was 623 GWh.

In the final consumption of electricity in 2023, households participate with 49,7%, the industrial sector accounts for 21,9%, and other consumers, including construction, transport and agriculture, participate with 28,4%.

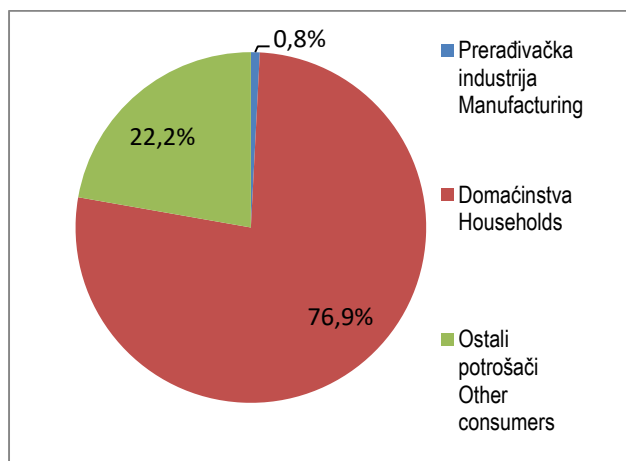
The largest share in electricity consumption in 2023, in the industrial sector, is in the production of iron and steel 19,1%.

Total thermal energy production in 2023 is 4.232 TJ, of which 2.161 TJ or 50,0% is produced in heating plants, 1.516 TJ or 35,1% in thermal power plants, and 646 TJ or 14,9% in autoproducers.

Households account for the largest share of final heat consumption in 2023 with 76,9% and manufacturing industry and other consumers with 23,1%.

### Potrošnja toplotne energije po sektorima, FBiH, 2023

Thermal energy consumption by sectors, FBiH, 2023



## 1. Bilans električne energije

Balance of electricity

GWh

	2022	2023	
<b>Bruto proizvodnja</b>	<b>8.442</b>	<b>8.509</b>	<b>Gross production</b>
Hidroelektrane	2.501	3.595	Hydroelectric power plants
Termoelektrane	5.110	4.075	Thermal power plants
Industrijske energane	353	353	Autoproducers
Solarna energija	87	130	Solar energy
Vjetroenergija	391	356	Wind power energy
<b>Sopstvena potrošnja</b>	<b>698</b>	<b>623</b>	<b>Own consumption</b>
<b>Neto proizvodnja</b>	<b>7.744</b>	<b>7.886</b>	<b>Net production</b>
Hidroelektrane	2.480	3.571	Hydroelectric power plants
Termoelektrane	4.544	3.594	Thermal power plants
Industrijske energane	242	235	Autoproducers
Solarna energija	87	130	Solar energy
Vjetroenergija	391	356	Wind power energy
<b>Gubici pri distribuciji</b>	<b>499</b>	<b>517</b>	<b>Losses in the distribution</b>
Pumpni rad	35	15	Used for pumped storage
<b>Energetski sektor</b>	<b>187</b>	<b>205</b>	<b>Energy sector</b>
<b>Finalna potrošnja</b>	<b>6.608</b>	<b>6.601</b>	<b>Final consumption</b>
<b>Industrijski sektor</b>	<b>1.654</b>	<b>1.445</b>	<b>Manufacturing industry</b>
Industrija željeza i čelika	439	276	Iron and Steel
Hemijska (uklj. i petrohemijsku)	158	147	Chemical (including Petrochemical)
Metali bez sadržaja željeza	89	72	Non-Ferrous Metals
Nemetalni mineralni proizvodi	197	198	Non-Metallic Minerals
Transportna oprema	34	33	Transport Equipment
Mašine, uređaji i metalni proizvodi	168	171	Machinery, equip. and metal prod.
Rudarstvo i kamenolomi	28	32	Mining and Quarring
Prerada hrane, pića i duhana	149	150	Food, Beverages and Tobacco
Celuloza, papir i štampanje	174	158	Paper, Pulp and Printing
Drvo i drveni proizvodi	92	86	Wood and Wood Products
Tekstil i koža	40	38	Textiles and Leather
Nespecificirano (industrija)	86	84	Non-specified (industry)
<b>Gradevinarstvo</b>	<b>52</b>	<b>53</b>	<b>Construction</b>
<b>Prijevoz</b>	<b>38</b>	<b>39</b>	<b>Transport</b>
<b>Poljoprivreda</b>	<b>23</b>	<b>23</b>	<b>Agriculture</b>
<b>Domaćinstva</b>	<b>3.215</b>	<b>3.280</b>	<b>Households</b>
<b>Ostali potrošači</b>	<b>1.626</b>	<b>1.761</b>	<b>Other consumers</b>

## 2. Bilans toplotne energije

Balance of heat

	Jed. mjere Unit	2022	2023	
<b>Proizvodnja energije transformacijom</b>	TJ	<b>4.232</b>	<b>4.323</b>	<b>Transformation output</b>
Toplane	TJ	2.019	2.161	District heating plants
Termoelektrane	TJ	1.615	1.516	Thermal power plants
Industrijske energane	TJ	598	646	Autoproducers
<b>Potrošnja u energetsom sektoru</b>	TJ	<b>32</b>	<b>35</b>	<b>Consumption in the energy sector</b>
<b>Gubici pri distribuciji</b>	TJ	<b>346</b>	<b>488</b>	<b>Losses in the distribution</b>
<b>Finalna potrošnja</b>	TJ	<b>3.863</b>	<b>3.800</b>	<b>Final consumption</b>
Prerađivačka industrija	TJ	31	31	Manufacturing
Domaćinstva/Kućanstva	TJ	2.836	2.924	Households
Ostali potrošači	TJ	987	845	Other consumers
<b>Utrošak goriva u toplanama</b>				<b>Fuel use in district heating plants</b>
Mrki ugalj/ugljen	t	28.130	30.776	Brown coal
Lignit	t	-	-	Lignite
Drvni i biljni otpad	t	9.858	11.320	Wood and wood wastes
Loživo ulje, sumpor <1%	t	833	18	Fuel oil, sulphur below ≥ 1%
Loživo ulje, ekstra lako	t	551	-	Fuel oil, extra light
Prirodni plin /gas	000Sm <sup>3</sup>	49.970	48.445	Natural gas
Ogrevno drvo i drvni otpad	t	15.144*	16.748	Fire wood and wood wastes
Pellet	t	231	-	Pellet
<b>Utrošak goriva u termoelektranama</b>				<b>Fuel use in district power plants</b>
Mrki ugalj/ugljen	000 t	3.285	2.727	Brown coal
Lignit	000 t	1.772	1.409	Lignite
Loživo ulje, ekstra lako	t	1.624	2.083	Fuel oil, extra light
Loživo ulje, sumpor <1%	t	2.118	1.907	Fuel oil, sulphur below < 1%
Dizelska goriva, nafta D2	t	448	119	
Ogrevno drvo i drvni otpad	t	1.500	-	Fire wood and wood wastes
<b>Utrošak goriva u energanama</b>				<b>Fuel use in autoproducer</b>
Prirodni plin /gas	000Sm <sup>3</sup>	11.687	9.494	Natural gas
Mrki ugalj/ugljen	000 t	332	336	Brown coal
Lignit	000 t	456	489	Lignite
Loživo ulje, sumpor <1%	t	1.096	1.221	Fuel oil, sulphur below < 1%
Loživo ulje extra lako	t	6	13	Fuel oil, extra light
Drvni otpad	t	31.854	42.739	Wood wastes
Koksni i VP plin	000Sm <sup>3</sup>	604.539	561.619	Coke Gas/ Blast Furnace Gas
<b>Utrošak goriva u koksarama</b>				<b>Fuel use in coke plants</b>
Koksni ugalj	000 t	1.126	1.054	Coking Coal
Koksni plin	000 t	178.244	175.886	Coking Coal

korigovan podatak \*

## METODOLOŠKA OBJAŠNJENJA

Podaci o Bilansu električne energije dobijaju se na osnovu rezultata godišnjih statističkih istraživanja iz oblasti energetike i to: Godišnji izvještaj o proizvodnji, potrošnji i distribuciji električne energije (EN-E1-G, EN-E2-G, EN-E4-G), i Godišnjeg istraživanja o utrošku energeneta u industriji (EN-IND-G).

Izvještajne jedinice o proizvodnji i potrošnji električne energije su preduzeća/poduzeća, koja su po Klasifikaciji djelatnosti razvrstana u Registru poslovnih subjekata u područje B - Vadenje ruda i kamena, C - Prerađivačka industrija i D - Proizvodnja i snabdijevanje/opskrba električnom energijom i gasom.

Metodologija za izradu bilansa električne energije usklađena je sa standardima IEA/OECD i Eurostat-a.

Godišnjim izvještajem o električnoj energiji prikupljaju se podaci o proizvodnji (bruto i neto), distribuciji i potrošnji električne energije u različitim oblastima.

**Bruto proizvodnja** predstavlja električnu energiju proizvedenu na generatoru.

**Neto proizvodnja** predstavlja električnu energiju isporučenu elektromreži iz elektrana, a predstavlja razliku između bruto proizvodnje i sopstvene potrošnje.

**Raspoloživa električna energija za finalnu potrošnju** je električna energija koja je na raspolaganju krajnjim potrošačima.

**Proizvodnja energije** transformacijom predstavlja ukupnu toplotnu energiju proizvedenu transformacijom različitih vrsta energenata.

## NOTES OF METHODOLOGY

*Data on the Balance of electricity is based on the results of the field of energy as follows: Annual survey about production, consumption, and distribution of electricity (EN-E1-G, EN-E2-G, EN-E4-G) and Annual survey on energy consumption in the industry (EN-IND-G).*

*Reporting units on production and consumption of electricity are enterprises classified according to the Classification of Activities in the Register of Business Entities in section B - Mining and quarrying, C - Manufacturing industry D - Production and supply of electricity and gas.*

*The methodology for making the balance of electricity is harmonized with IEA/OECD standards and Eurostat.*

*The annual survey on electricity collects data about the production (gross, net), distribution and consumption of electricity in different sections.*

**Gross electricity production** in the sum of the electrical production by all the generating sets concerned measured at the output terminals of the main generators.

**Nett electricity production** is electrical energy supplied from a power station to a power-supply grid and it represents the difference between gross electricity production and own supply.

**Electricity available for final consumption** is electrical energy available to final consumers.

**Transformation energy production** represents the total thermal energy produced by the transformation of different types of energy

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