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STATISTIKA ENERGIJE

ENERGY STATISTICS

ELEKTRIČNA I TOPLOTNA ENERGIJA

ELECTRICITY AND HEAT

Električna i toplotna energija, 2023

Bruto proizvodnja električne energije u Bosni i Hercegovini u 2023. godini iznosi 17186 GWh, od čega je u hidroelektranama proizvedeno 6761 GWh ili 39,34%, u termoelektranama 9389 GWh ili 54,63%, a u industrijskim energanama i ostalim (vjetru i solarnim elektranama) je proizvedeno 1036 GWh tj. 6,033%.

Vlastita potrošnja u elektranama iznosi 1140 GWh, a u ostalom energetske sektoru 291 GWh.

U finalnoj potrošnji električne energije u 2023. godini kućanstva sudjeluju sa 48,7%, industrija sa 22,3%, a ostali potrošači uključujući građevinarstvo, transport i poljoprivredu učestvuju sa 29%.

Najveće učešće u potrošnji električne energije u 2023. godini u industrijskom sektoru ima industrija željeza i čelika sa 13,7%.

Ukupna proizvodnja toplotne energije u Bosni i Hercegovini u 2023. godini je 5721 TJ, od čega je 3307 TJ ili 57,8% proizvedeno u toplanama, 1768 TJ ili 30,9% u termoelektranama, a 646 TJ ili 11,3% je proizvedeno u industrijskim energanama.

U finalnoj potrošnji toplotne energije u 2023. godini najveći udio imaju kućanstva sa 77,4, a industrija i ostali potrošači sa 22,6%.

Electricity and Heat, 2023

Gross electricity production in Bosnia and Herzegovina in 2023 was 17186 GWh, out of which 6761 GWh or 39.34% was produced in hydro power plants and 9389 GWh or 54.63% in thermal power plants, and 1036 GWh (6.03%) was produced in autoproducers and others (wind and solar power plants).

Own consumption in power plants was 1140 GWh, and 291 GWh in other energy sector.

In final electricity consumption in 2023 households participated with share of 48.7%, industry with share of 22.3% and other consumers including construction, transport and agriculture with 29%.

The largest share in final electricity consumption in 2023 at industry sector had Iron and Steel Industry with 13.7%.

Total heat production in Bosnia and Herzegovina in 2023 was 5 721 TJ, out of which 3 307 TJ or 57.8% was produced in district heating plants, 1 768 TJ or 30.9% in thermal power plants and 646 TJ or 11.3% was produced by autoproducers.

In final heat energy consumption in 2023, households had the largest share of 77.4%, and industry and other consumers with share of 22.6%

1. ELEKTRIČNA ENERGIJA*ELECTRICITY***Godišnja bilanca električne energije, BiH, 2023.***Annual balance of electricity, BiH, 2023***GWh**

| | 2023. | |
|---------------------------------------|---------------|---------------------------------------|
| Bruto proizvodnja | 17 186 | Gross production |
| Hidroelektrane | 6 761 | <i>Hydro power plants</i> |
| Termoelektrane, TE-TO | 9 389 | <i>Thermal power plants, CHP</i> |
| Industrijske energane i ostali | 1 036 | <i>Autoproducers and others</i> |
| Neto proizvodnja | 16 046 | Net production |
| Hidroelektrane | 6 723 | <i>Hydro power plants</i> |
| Termoelektrane, TE-TO | 8 405 | <i>Thermal power plants, CHP</i> |
| Industrijske energane i ostali | 918 | <i>Autoproducers and others</i> |
| Uvoz | 3 655 | Import |
| Izvoz | 7 886 | Export |
| Potrošnja u energetsom sektoru | 291 | Consumption in energy sector |
| Pumpni rad | 15 | Used for pumped storage |
| Ukupni gubici | 1 244 | Total losses |
| Finalna potrošnja | 10 265 | Final consumption |
| Industrija | 2 291 | Industry |
| Industrija željeza i čelika | 313 | <i>Iron and Steel</i> |
| Kemijska (uklj. i petrokemijsku) | 174 | <i>Chemical (incl. Petrochemical)</i> |
| Metali bez željeza | 249 | <i>Non-Ferrous Metals</i> |
| Nemetalni mineralni proizvodi | 234 | <i>Non-Metallic Minerals</i> |
| Transportna oprema | 36 | <i>Transport Equipment</i> |
| Strojevi | 247 | <i>Machinery</i> |
| Rudarstvo i kamenolomi | 91 | <i>Mining and Quarrying</i> |
| Prerada hrane, pića i duhana | 282 | <i>Food, Beverages and Tobacco</i> |
| Celuloza, papir i tiskanje | 203 | <i>Paper, Pulp and Printing</i> |
| Drvo i drveni proizvodi | 219 | <i>Wood and Wood Products</i> |
| Tekstil i koža | 108 | <i>Textiles and Leather</i> |
| Nespecificirano (industrija) | 135 | <i>Non-specified (Industry)</i> |
| Građevinarstvo | 86 | Construction |
| Transport | 63 | Transport |
| Poljoprivreda | 64 | Agriculture |
| Kućanstva | 5 000 | Households |
| Ostali potrošači | 2 761 | Other |

2. TOPLOTNA ENERGIJA

HEAT

Godišnja bilanca opskrbe toplotom, BiH, 2023.

Annual balance of heat supply, BiH, 2023

| | Jedinica mjere Unit | 2023. | |
|---|---------------------------|--------------|--|
| Proizvodnja energije transformacijom | TJ | 5 721 | Transformation output |
| Toplane | TJ | 3 307 | District heating plants |
| Termoelektrane, TE-TO | TJ | 1 768 | Thermal power plants, CHP |
| Industrijske energane | TJ | 646 | Autoproducers |
| Potrošnja u energetsom sektoru | TJ | 38 | Consumption in energy sector |
| Ukupni gubici | TJ | 612 | Total losses |
| Finalna potrošnja | TJ | 5 071 | Final consumption |
| Industrija | TJ | 35 | Industry |
| Građevinarstvo | TJ | - | Construction |
| Transport | TJ | - | Transport |
| Poljoprivreda | TJ | - | Agriculture |
| Kućanstva | TJ | 3 923 | Households |
| Ostali potrošači | TJ | 1 113 | Other |
| Utrošak goriva u toplanama | | | Fuel use in district heating plants |
| Mrki ugljen | t | 34 861 | Brown coal |
| Lignit | t | 45 260 | Lignite |
| Prirodni plin | 000 Sm ³ | 49 016 | Natural gas |
| Drvni i biljni otpad | t | 31 484 | Wood wastes |
| Ogrijevno drvo | t | 87 563 | Fuel wood |
| Loživo ulje, ekstra lako | t | - | Fuel oil, light |
| Loživo ulje, S < 1% | t | 1 675 | Fuel oil, S < 1% |
| Loživo ulje, S ≥ 1% | t | - | Fuel oil, S ≥ 1% |
| Utrošak goriva u termoelektranama. TE-TO | | | Fuel use in thermal power plants, CHP |
| Mrki ugljen | 000 t | 4 640 | Brown coal |
| Lignit | 000 t | 5 792 | Lignite |
| Loživo ulje, ekstra lako | t | 2 083 | Fuel oil, light |
| Loživo ulje, S < 1% | t | 18 580 | Fuel oil, S < 1% |
| Loživo ulje, S ≥ 1% | t | - | Fuel oil, S ≥ 1% |
| Ogrijevno drvo | t | 24 019 | Fuel wood |
| Utrošak goriva u energanama | | | Fuel use in autoproducers |
| Mrki ugljen | 000 t | 353 | Brown coal |
| Lignit | 000 t | 489 | Lignite |
| Prirodni plin | 000 Sm ³ | 9 816 | Natural gas |
| Drvni i biljni otpad | t | 44 923 | Wood wastes |
| Ogrijevno drvo | t | - | Fuel wood |
| Loživo ulje, ekstra lako | t | 13 | Fuel oil, light |
| Loživo ulje, S < 1% | t | 1 221 | Fuel oil, S < 1% |
| Loživo ulje, S ≥ 1% | t | - | Fuel oil, S ≥ 1% |
| Bioplin | 000 m ³ | 1 476 | Biogas |

METODOLOŠKA OBJAŠNENJA

Metodologija za prikupljanje podataka i izradu energetske bilance električne i toplotne energije usklađena je sa međunarodnim standardima IEA/OECD i Eurostat-a.

Bruto proizvodnja električne energije predstavlja ukupno proizvedenu električnu energiju na generatoru.

Neto proizvodnja električne energije jednaka je bruto proizvodnji umanjenoj za vlastitu potrošnju elektrana. Uobičajen naziv za neto proizvodnju električne energije je proizvodnja električne energije na pragu elektrane.

Uvoz/Izvoz električne energije su količine električne energije koje su prešle državnu granicu.

Gubici električne energije obuhvataju sve gubitke prijenosa i distribucije električne energije kao i ostale gubitke u mreži.

Finalna potrošnja električne i toplotne energije predstavlja finalnu potrošnju energije u industriji, građevinarstvu, transportu, poljoprivredi, kućanstvima i ostalim sektorima.

Industrijske energane (samoproizvođači) su poduzeća koja pored svoje osnovne djelatnosti proizvode električnu energiju i/ili toplotnu energiju za prodaju trećim stranama.

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

NOTES OF METHODOLOGY

Methodology for data collection and making of electricity and heat energy balances are harmonized with internationally established standards of IEA/OECD and Eurostat.

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

Net electricity production is equal to the gross electricity production less the electrical energy absorbed by the generating auxiliaries and the losses in the main generator transformers.

Import/Export of electricity include quantities that crossed the national border.

Losses of electricity include all transmission and distribution losses of electricity and other losses in the grid.

Final consumption of electricity and heat is final energy consumption in industry, construction, transport, agriculture, households and other sectors.

Autoproducer undertakings generate electricity and/or heat, wholly or partly for their own use as an activity which supports their primary activity.

Transformation output is total heat production from different kind of fuels.

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Telefon/Phone: +387 (33) 911 911 | Telefaks/Telefax: +387 (33) 220 622
Elektronska pošta/E-mail: bhas@bhas.gov.ba | Internetska stranica/Web site: www.bhas.gov.ba

Odgovorne osobe/Responsible persons:

Ševala Korajčević, šefica odsjeka za okoliš, energiju i regionalne statistike
Ševala Korajčević, Head of the Department for Environment, Energy and Regional Statistics

Vesna Ćužić, ravnateljica
Vesna Ćužić, Director

Priopćenje priredila: Nermina Pozderac
Prepared by: Nermina Pozderac



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