

KRATKOROČNI POKAZATELJI ENERGETSKE STATISTIKE U RUJNU 2021. PRVI REZULTATI

SHORT-TERM INDICATORS OF ENERGY STATISTICS, SEPTEMBER 2021 FIRST RESULTS

U rujnu 2021. električna energija raspoloživa za potrošnju iznosila je 1 430 GWh. Ta količina sadržava i gubitke u električnoj mreži.

In September 2021, electricity available for the inland market amounted to 1 430 GWh, including losses in the electricity network.

Kod drugih energenata količina raspoloživa za potrošnju sadržava i količine energenata koje mogu završiti na skladištu kod finalnih potrošača ili u maloprodaji.

As for other energy products, the quantity available for the inland market also contains the quantities of energy products that may end up in warehouses, either in those of final consumers or in retail trade.

G-1. ELEKTRIČNA ENERGIJA, RASPOLOŽIVA ZA TUZEMNU POTROŠNJU, RUJAN 2019. – RUJAN 2021.
ELECTRICITY AVAILABLE FOR INLAND MARKET, SEPTEMBER 2019 – SEPTEMBER 2021



1. ELEKTRIČNA ENERGIJA ELECTRICITY

GWh

Opskrba	Električna energija Electricity								Supply
	2020.				2021.				
	VI.	VII.	VIII.	IX.	VI.	VII.	VIII.	IX.	
Ukupna bruto proizvodnja	947	989	962	1 009	906	1 008	1 028	879	Total gross production
Hidroelektrane	389	325	309	358	427	354	367	248	Hydro power plants
Termoelektrane i CHP na fosilna goriva	370	446	433	421	296	426	425	402	Thermal power plants and CHP on fossil fuels
Termoelektrane i CHP na obnovljiva goriva	72	74	73	76	81	88	84	92	Thermal power plants and CHP on renewable fuels
Vjetroelektrane	99	126	133	139	87	122	135	121	Wind power plants
Sunčane elektrane	8	10	8	7	10	10	9	8	Solar power plants
Geotermalne elektrane	9	8	6	8	5	8	8	8	Geothermal power plants
Ukupna neto proizvodnja	920	955	931	974	880	977	1 000	846	Total net production
Hidroelektrane	388	323	308	357	426	353	366	246	Hydro power plants
Termoelektrane i CHP na fosilna goriva	352	424	413	395	279	408	405	380	Thermal power plants and CHP on fossil fuels
Termoelektrane i CHP na obnovljiva goriva	67	68	66	71	75	80	80	85	Thermal power plants and CHP on renewable fuels
Vjetroelektrane	98	124	131	137	86	120	134	120	Wind power plants
Sunčane elektrane	8	10	8	7	10	10	9	8	Solar power plants
Geotermalne elektrane	7	6	5	7	4	6	6	6	Geothermal power plants
Uvoz	828	1 078	1 010	881	931	931	1 055	1 034	Import
Izvoz	448	510	365	473	337	337	409	437	Export
Potrošeno iz mreže za crpke u reverzibilnim elektranama	22	8	21	20	15	11	10	13	Energy absorbed by storage pumping
Raspoloživo za tuzemnu potrošnju	1 278	1 515	1 555	1 362	1 459	1 560	1 636	1 430	Available for inland market

2. PRIRODNI PLIN
NATURAL GAS

Opskrba	Mjerna jedinica	Prirodni plin <i>Natural gas</i>								Unit of measure	Supply
		2020.				2021.					
		VI.	VII.	VIII.	IX.	VI.	VII.	VIII.	IX.		
Proizvodnja	mil. m ³ TJ (GOM)	75 2 991	76 3 047	75 2 968	49 1 957	63 2 521	66 2 636	65 2 599	63 2 507	mln m ³ TJ (GCV)	Production
Uvoz	mil. m ³ TJ (GOM)	185 7 156	185 7 172	204 7 888	173 6 701	186 7 419	206 8 155	196 7 802	109 4 333	mln m ³ TJ (GCV)	Import
Izvoz	mil. m ³ TJ (GOM)	3 108	3 104	3 96	3 93	16 605	2 68	6 250	11 425	mln m ³ TJ (GCV)	Export
Promjena zaliha	mil. m ³ TJ (GOM)	75 2 850	63 2 414	90 3 415	18 692	102 3 742	90 3 424	77 2 940	-13 -619	mln m ³ TJ (GCV)	Variation of stocks
Raspoloživo za tuzemnu potrošnju	mil. m ³ TJ (GOM)	182 7 189	195 7 701	186 7 345	201 7 872	131 5 593	180 7 299	178 7 211	174 7 034	mln m ³ TJ (GCV)	Available for inland market

3. UGLJIKOVODICI
HYDROCARBONS

3.1. SIROVA NAFTA
CRUDE OIL

tis. tona
'000 tonnes

Opskrba	Sirova nafta <i>Crude oil</i>								Supply
	2020.				2021.				
	VI.	VII.	VIII.	IX.	VI.	VII.	VIII.	IX.	
Proizvodnja	49	50	49	44	45	47	47	46	Production
Uvoz	270	187	276	168	330	85	309	112	Import
Izvoz	21	56	56	39	41	45	39	34	Export
Promjena zaliha	67	-59	39	-36	112	-164	71	-96	Variation of stocks
Prerada u rafinerijama	231	240	230	209	222	251	246	220	Refinery input

3.2. NAFTNI DERIVATI – UKUPNO
PETROLEUM PRODUCTS – TOTAL

tis. tona
'000 tonnes

Opskrba	Naftni derivati <i>Petroleum products</i>								Supply
	2020.				2021.				
	VI.	VII.	VIII.	IX.	VI.	VII.	VIII.	IX.	
Proizvodnja	279	319	301	307	297	320	308	288	Production
Uvoz	151	95	142	138	171	123	185	126	Import
Izvoz	181	178	157	164	195	221	135	163	Export
Promjena zaliha	5	-61	2	18	1	-111	38	-57	Variation of stocks
Raspoloživo za tuzemnu potrošnju	244	297	284	263	272	333	320	308	Available for inland market

3.2.1. MOTORNI BENZIN
MOTOR GASOLINE

tis. tona
'000 tonnes

Opskrba	Motorni benzin Motor gasoline								Supply
	2020.				2021.				
	VI.	VII.	VIII.	IX.	VI.	VII.	VIII.	IX.	
Proizvodnja	77	75	74	78	76	78	79	67	Production
Uvoz	6	4	6	11	6	6	6	5	Import
Izvoz	48	48	21	49	58	49	26	26	Export
Promjena zaliha	-2	-19	9	4	-12	-28	-4	5	Variation of stocks
Raspoloživo za tuzemnu potrošnju	37	50	50	36	36	63	63	41	Available for inland market

3.2.2. PLINSKO DIZELSKO GORIVO
GAS/DIESEL OIL

tis. tona
'000 tonnes

Opskrba	Plinsko dizelsko gorivo Gas/diesel oil								Supply
	2020.				2021.				
	VI.	VII.	VIII.	IX.	VI.	VII.	VIII.	IX.	
Proizvodnja	123	154	132	134	140	150	140	135	Production
Uvoz	110	59	106	99	128	88	155	87	Import
Izvoz	67	71	58	77	86	105	87	83	Export
Promjena zaliha	19	-39	6	-9	7	-65	27	-52	Variation of stocks
Raspoloživo za tuzemnu potrošnju	147	181	174	165	175	198	181	191	Available for inland market

3.2.3. LOŽIVA ULJA
FUEL OIL

tis. tona
'000 tonnes

Opskrba	Loživa ulja Fuel oil								Supply
	2020.				2021.				
	VI.	VII.	VIII.	IX.	VI.	VII.	VIII.	IX.	
Proizvodnja	35	43	17	32	33	23	34	30	Production
Uvoz	6	-	1	4	-	-	-	-	Import
Izvoz	48	39	30	2	32	31	3	33	Export
Promjena zaliha	-10	-	-16	29	-	-9	30	-4	Variation of stocks
Raspoloživo za tuzemnu potrošnju	3	4	4	5	1	1	1	1	Available for inland market

3.2.4. OSTALI NAFTNI DERIVATI
OTHER PETROLEUM PRODUCTS

tis. tona
'000 tonnes

Opskrba	Ostali naftni derivati Other petroleum products								Supply
	2020.				2021.				
	VI.	VII.	VIII.	IX.	VI.	VII.	VIII.	IX.	
Proizvodnja	44	47	78	63	48	69	55	56	Production
Uvoz	29	32	29	24	37	29	24	34	Import
Izvoz	18	20	48	36	19	36	19	21	Export
Promjena zaliha	-2	-3	3	-6	6	-9	-15	-6	Variation of stocks
Raspoloživo za tuzemnu potrošnju	57	62	56	57	60	71	75	75	Available for inland market

4. KRUTA GORIVA
CRUDE FUELS

4.1. KAMENI UGLJEN
HARD COAL

tis. tona
'000 tonnes

Opskrba	Kameni ugljen <i>Hard coal</i>								Supply
	2020.				2021.				
	VI.	VII.	VIII.	IX.	VI.	VII.	VIII.	IX.	
Proizvodnja	-	-	-	-	-	-	-	-	<i>Production</i>
Uvoz	51	-	67	71	8	72	141	6	<i>Import</i>
Izvoz	-	-	-	-	-	-	-	-	<i>Export</i>
Promjena zaliha	-1	-62	-	15	-57	1	80	-58	<i>Variation of stocks</i>
Raspoloživo za tuzemnu potrošnju	52	62	67	56	65	71	61	64	<i>Available for inland market</i>

4.2. KOKS
COKE

tis. tona
'000 tonnes

Opskrba	Koks <i>Coke</i>								Supply
	2020.				2021.				
	VI.	VII.	VIII.	IX.	VI.	VII.	VIII.	IX.	
Proizvodnja	-	-	-	-	-	-	-	-	<i>Production</i>
Uvoz	2	-	3	4	2	3	4	2	<i>Import</i>
Izvoz	-	-	-	-	-	-	-	-	<i>Export</i>
Promjena zaliha	-	-	-	-	-	-	-	-	<i>Variation of stocks</i>
Raspoloživo za tuzemnu potrošnju	2	-	3	4	2	3	4	2	<i>Available for inland market</i>

4.3. MRKI UGLJEN
BROWN COAL

tis. tona
'000 tonnes

Opskrba	Mrki ugljen <i>Brown coal</i>								Supply
	2020.				2021.				
	VI.	VII.	VIII.	IX.	VI.	VII.	VIII.	IX.	
Proizvodnja	-	-	-	-	-	-	-	-	<i>Production</i>
Uvoz	-	-	5	8	-	-	-	2	<i>Import</i>
Izvoz	-	-	-	-	-	-	-	-	<i>Export</i>
Promjena zaliha	-	-	5	5	-	-	-	1	<i>Variation of stocks</i>
Raspoloživo za tuzemnu potrošnju	-	-	-	3	-	-	-	1	<i>Available for inland market</i>

METODOLOŠKA OBJAŠNJENJA

Ovo Priopćenje sastavlja se na temelju više statističkih istraživanja, i to: Mjesečnog istraživanja o industrijskoj proizvodnji i zaposlenim osobama (IND-1/KPS/M), Mjesečnog istraživanja o naftnim rafinerijama (ERG-1/N), Mjesečnog istraživanja o uvozu, izvozu i zalihama nafte i naftnih derivata (ERG-2/N), Mjesečnog istraživanja o uvozu, izvozu, zalihama i isporukama prirodnog plina (ERG-1/P), Mjesečnog istraživanja o uvozu, izvozu, zalihama i isporukama prirodnog plina (ERG-1/P), Mjesečnog istraživanja o koksa (ERG-1/U), Mjesečnog istraživanja o elektranama (ERG-1/EL) te podataka dobivenih iz Jedinственe carinske deklaracije o izvozu i uvozu robe.

Mjesečni podaci u ovom Priopćenju služe za praćenje kretanja energenata prema navedenim obilježjima, a zbrojeni za 12 mjeseci ne predstavljaju godišnje bilančne podatke jer zbog brzine davanja podataka u mjesečnoj dinamici ili storniranja nekih isporuka može doći do manjih odstupanja u mjesečnim podacima. Zbog toga preporučujemo sljedeće izvore za godišnje podatke: godišnje Statističko izvješće "Energetska statistika", koje objavljuje Državni zavod za statistiku, i godišnji energetska pregled "Energija u Hrvatskoj", u izdanju Ministarstva zaštite okoliša i energije.

Bruto proizvodnja električne energije jest proizvedena električna energija na generatoru hidroelektrana, termoelektrana i CHP na fosilna goriva, termoelektrana i CHP na obnovljiva goriva, vjetroelektrana i sunčanih elektrana.

Neto proizvodnja električne energije jest električna energija isporučena elektromreži iz elektrane. To je razlika između proizvedene električne energije na generatoru i vlastite potrošnje.

Geotermalne elektrane proizvode energiju dostupnu kao toplinu koja isijava iz unutrašnjosti Zemljine kore, uglavnom u obliku vruće vode ili pare; isključujući okolnu toplinu koju sakupljaju toplinske crpke iz tla. Proizvodnja geotermalne energije jest razlika između entalpije tekućine dobivene iz bušotine i krajnje otpadne tekućine.

Raspoloživa energija za potrošnju jest količina energenata raspoloživa za finalnu tuzemnu potrošnju u koju su uključeni gubici i zalihe kod finalnih potrošača i u maloprodaji.

Sirova nafta jest mineralno ulje prirodnog podrijetla koje obuhvaća mješavinu ugljikovodika i dodatnih nečistoća, npr. sumpora. Nalazi se u tekućem agregatnom stanju pod normalnom temperaturom i tlakom, a njezina fizikalna svojstva (gustoća, viskoznost itd.) jako variraju. U sirovu naftu uključeni su i kondenzati koji se dobivaju iz vezane ili nevezane proizvodnje plina pomiješanoga s komercijalnom sirovom naftom.

Prirodni plin sastoji se od plinova, nastaje prirodno u podzemnim nalazištima bilo u tekućem bilo u plinovitom stanju. Uglavnom se sastoji od metana. Uključuje i "nevezani" plin, koji potječe iz nalazišta što daju ugljikovodike samo u plinovitom stanju, i "vezani" plin, proizveden zajedno sa sirovom naftom, te metan iskopan iz rudnika ugljena (plin iz rudnika). Prirodni plin uključuje i industrijski proizveden plin (proizveden od gradskoga ili industrijskog otpada ili kanalizacije). Ispuhane ili spaljene količine prirodnog plina ne računaju se.

Naftni derivati jesu svi proizvodi koji su proizvedeni u naftnim rafinerijama, a to su: rafinerijski plin, ukapljeni plin, motorni benzini, petrolej, mlazno gorivo, dizelsko gorivo, ekstralako loživo ulje, loživo ulje, primarni benzin, *white spirit*, maziva ulja, bitumen, parafin, naftni koks i ostali proizvodi rafinerija.

Pod **ostalim naftnim derivatima** iskazani su i ukapljeni plinovi u degazolnazi.

NOTES ON METHODOLOGY

This First Release is prepared on the basis of several statistical surveys, as follows: the Monthly Survey on Industrial Production and Persons Employed (IND-1/KPS/M form), the Monthly Survey on Oil Refineries (ERG-1/N form), the Monthly Survey on Import, Export and Stocks of Petroleum and Petroleum Products (ERG-2/N form), the Monthly Survey on Import, Export, Stocks and Deliveries of Natural Gas (ERG-1/P form), the Monthly Survey on Import, Export, Stocks, Deliveries and Consumption of Coal and Coke (ERG-1/U form) and the Monthly Survey on Electricity Power Plants (ERG-1/EL form) as well as on the data obtained from the Single Administrative Document on export and import of goods.

The monthly data in this First Release are used for monitoring the changes in energy products according to the mentioned characteristics. Their sum for 12 months does not represent the annual balance data, due to the fast output of monthly data or to the fact that some deliveries are cancelled, which may lead to slight deviations from the monthly data. For that reason, the following sources of annual data are recommended: the annual Statistical Report entitled Energy Statistics published by the Croatian Bureau of Statistics and the annual energy review entitled Energy in Croatia published by the Ministry of Environment and Energy.

Gross electricity production is the sum of the total electrical energy production by all the generating sets concerned (hydro power plants, thermal power plants and CHP on fossil fuels, thermal power plants and CHP on renewable fuels, wind power plants and solar power plants).

Net electricity production is the electrical energy supplied from a power station to a power-supply grid and it represents the difference between the electrical energy produced in a generator and own supply.

Geothermal power plants produce energy available as heat emitted from within the Earth's crust, usually in the form of hot water or steam; excluding the surrounding heat collected by the heat pumps from the ground. This energy production is the difference between the enthalpy of the fluid produced in the production borehole and that of the fluid eventually disposed of.

Energy available for consumption is the quantity of energy products available for final consumption on the inland market, including losses and stocks at final consumers and in retail trade.

Crude oil is a mineral oil of natural origin that includes a mixture of hydrocarbons and associated impurities, such as sulphur. It exists in the liquid phase under normal surface temperature and pressure and its physical characteristics (density, viscosity, etc.) are highly variable. This category includes field or lease condensates recovered from associated and non-associated gases where it is commingled with the commercial crude oil stream.

Natural gas is comprised of gases, occurring naturally in underground deposits, whether liquefied or gaseous, consisting mainly of methane. It includes both "non-associated" gas originating from fields producing hydrocarbons only in gaseous form, and "associated" gas produced in association with crude oil as well as methane recovered from coal mines (colliery gas). Manufactured gas (produced from municipal or industrial waste or sewage) is also included, while vented or flared quantities of natural gas are excluded.

Petroleum products are all products produced in petroleum refineries: refinery gas, liquefied petroleum gas, motor gasoline, kerosene, jet fuel, diesel oil, light fuel oil, fuel oil, naphtha, white spirit, lubricating oils, bitumen, paraffin waxes, petroleum coke and other refinery products.

Other petroleum products encompass liquefied petroleum gas in NGL plants.

Pod **uvozom** se podrazumijevaju količine energenata koje su prešle državnu granicu Republike Hrvatske bez obzira na to jesu li ili nisu ocarinjene. Količine nafte, naftnih proizvoda i tekućeg plina pod ugovorima o proizvodnji koje se ostvaruju u inozemstvu također treba iskazati u ovoj tablici kao uvoz. Energenti u tranzitu kroz Republiku Hrvatsku ne iskazuju se u ovom obrascu ni kao uvoz ni kao izvoz.

Pod **izvozom** se podrazumijevaju količine koje su prešle državnu granicu Republike Hrvatske bez obzira na to jesu li ili nisu ocarinjene i jesu li ili nisu vlasništvo hrvatskog rezidenta.

Za uvoz i izvoz električne energije primjenjuje se Eurostatova definicija koja uključuje i tranzit: količine električne energije smatraju se uvezenima ili izvezenima kada prijeđu političke granice zemlje bez obzira na to jesu li ili nisu ocarinjene. Ako električna energija prolazi kroz zemlju, količina te energije prijavljuje se i kao uvoz i kao izvoz.

Pod **promjenom zaliha** podrazumijevaju se promjene stanja zaliha na početku i kraju mjeseca u poduzećima koja se bave proizvodnjom, transformacijom, uvozom i izvozom energije. Razlika se dobije tako što se od stanja zaliha na kraju posljednjeg dana u mjesecu oduzme stanje zaliha na početku prvoga radnog dana u istome mjesecu.

Import includes the quantities of energy products that crossed the state border of the Republic of Croatia, regardless of whether or not they were cleared through the customs. The quantities of petroleum and petroleum products and liquid gas that are under contracts on production realised abroad are also to be presented in this table as import. Energy products in transit through the Republic of Croatia are not presented in this survey form either as import or as export.

Export includes the quantities that crossed the state border of the Republic of Croatia, regardless of whether or not they were cleared through the customs and whether or not they are owned by a Croatian resident.

For import and export of electricity, a Eurostat definition is used which includes transit: amounts of electricity are considered imported or exported when they have crossed the political boundaries of a country, regardless of whether customs clearance has taken place or not. If electricity transits through a country, the amount should be reported as both import and export.

Variation of stocks includes stock changes at the beginning and at the end of a month in enterprises engaged in the production, transformation, import and export of energy. The difference is calculated by subtracting the state of stocks at the beginning of the first working day in a month from the state of stocks at the end of the last day in the same month.

Kratice

CHP	kombinirana proizvodnja toplinske i električne energije
Eurostat	Statistički ured Europske unije
GOM	gornja ogrjevna moć
GWh	gigavatsat
m ³	kubični metar
mil.	milijun
tis.	tisuća
TJ	teradžul

Znakovi

- nema pojave

Abbreviations

CHP	combined heat and power generation
Eurostat	Statistical Office of the European Communities
GCV	gross calorific value
GWh	gigawatt hour
m ³	cubic metre
mln	million
NGL	natural gas liquids
TJ	terajoule
'000	thousand

Symbols

- no occurrence

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