

KRATKOROČNI POKAZATELJI ENERGETSKE STATISTIKE U PROSINCU 2021. PRVI REZULTATI

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

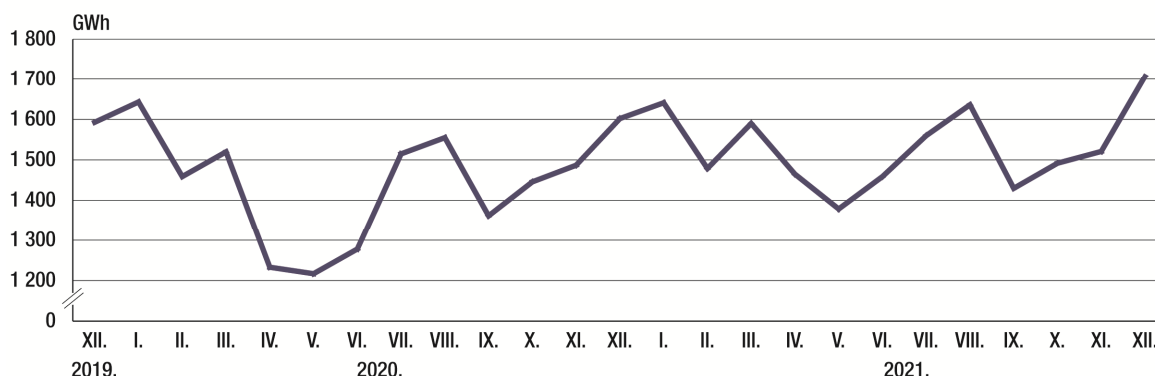
U prosincu 2021. električna energija raspoloživa za potrošnju iznosila je 1 707 GWh. Ta količina sadržava i gubitke u električnoj mreži.

In December 2021, electricity available for the inland market amounted to 1 707 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, PROSINAC 2019. – PROSINAC 2021.
ELECTRICITY AVAILABLE FOR INLAND MARKET, DECEMBER 2019 – DECEMBER 2021



1. ELEKTRIČNA ENERGIJA ELECTRICITY

GWh

Opskrba	Električna energija Electricity								Supply
	2020.				2021.				
	IX.	X.	XI.	XII.	IX.	X.	XI.	XII.	
Ukupna bruto proizvodnja	1 009	1 395	1 258	1 757	879	1 157	1 388	1 698	Total gross production
Hidroelektrane	358	717	529	976	248	309	565	973	Hydro power plants
Termoelektrane i CHP na fosilna goriva	421	451	491	505	402	512	513	364	Thermal power plants and CHP on fossil fuels
Termoelektrane i CHP na obnovljiva goriva	76	82	83	86	92	94	92	97	Thermal power plants and CHP on renewable fuels
Vjetroelektrane	139	131	145	186	121	229	208	253	Wind power plants
Sunčane elektrane	7	5	2	1	8	5	2	2	Solar power plants
Geotermalne elektrane	8	9	8	3	8	8	8	9	Geothermal power plants
Ukupna neto proizvodnja	974	1 354	1 217	1 725	846	1 119	1 354	1 664	Total net production
Hidroelektrane	357	714	525	973	246	307	563	970	Hydro power plants
Termoelektrane i CHP na fosilna goriva	395	425	464	482	380	487	488	343	Thermal power plants and CHP on fossil fuels
Termoelektrane i CHP na obnovljiva goriva	71	75	75	81	85	85	87	88	Thermal power plants and CHP on renewable fuels
Vjetroelektrane	137	128	144	185	120	228	206	252	Wind power plants
Sunčane elektrane	7	5	2	1	8	5	2	2	Solar power plants
Geotermalne elektrane	7	7	7	3	6	7	7	7	Geothermal power plants
Uvoz	881	841	887	736	1 034	982	770	968	Import
Izvoz	473	745	602	853	437	580	581	916	Export
Potrošeno iz mreže za crpke u reverzibilnim elektranama	20	4	15	6	13	29	22	9	Energy absorbed by storage pumping
Raspoloživo za tuzemnu potrošnju	1 362	1 446	1 487	1 602	1 430	1 492	1 521	1 707	Available for inland market

2. PRIRODNI PLIN NATURAL GAS

Opskrba	Mjerna jedinica	Prirodni plin Natural gas								Unit of measure	Supply
		2020.				2021.					
		IX.	X.	XI.	XII.	IX.	X.	XI.	XII.		
Proizvodnja	mil. m ³	49	73	71	69	63	63	60	61	mln m ³	Production
	TJ (GOM)	1 957	2 921	2 813	2 738	2 507	2 524	2 418	2 446	TJ (GCV)	
Uvoz	mil. m ³	173	197	179	205	109	202	193	188	mln m ³	Import
	TJ (GOM)	6 701	7 619	6 974	7 945	4 333	8 015	7 699	7 497	TJ (GCV)	
Izvoz	mil. m ³	3	3	1	2	11	12	6	6	mln m ³	Export
	TJ (GOM)	93	93	50	88	425	439	242	227	TJ (GCV)	
Promjena zaliha	mil. m ³	18	-2	-87	-83	-13	14	-67	-85	mln m ³	Variation of stocks
	TJ (GOM)	692	-69	-3 293	-3 157	-619	668	-2 534	-3 259	TJ (GCV)	
Raspoloživo za tuzemnu potrošnju	mil. m ³	201	269	336	355	174	239	314	328	mln m ³	Available for inland market
	TJ (GOM)	7 872	10 516	13 030	13 752	7 034	9 432	12 409	12 975	TJ (GCV)	

3. UGLJIKOVODICI HYDROCARBONS

3.1. SIROVA NAFTA CRUDE OIL

tis. tona
'000 tonnes

Opskrba	Sirova nafta Crude oil								Supply
	2020.				2021.				
	IX.	X.	XI.	XII.	IX.	X.	XI.	XII.	
Proizvodnja	44	48	47	47	46	47	47	48	Production
Uvoz	168	90	-	-	112	97	-	-	Import
Izvoz	39	20	40	136	34	39	39	63	Export
Promjena zaliha	-36	-99	-76	-118	-96	-121	-13	-45	Variation of stocks
Prerada u rafinerijama	209	217	83	29	220	226	21	30	Refinery input

3.2. NAFTNI DERIVATI – UKUPNO PETROLEUM PRODUCTS – TOTAL

tis. tona
'000 tonnes

Opskrba	Naftni derivati Petroleum products								Supply
	2020.				2021.				
	IX.	X.	XI.	XII.	IX.	X.	XI.	XII.	
Proizvodnja	307	290	115	41	288	297	34	44	Production
Uvoz	138	152	202	234	126	196	313	312	Import
Izvoz	164	156	142	76	163	174	97	102	Export
Promjena zaliha	18	29	-51	-5	-57	41	5	25	Variation of stocks
Raspoloživo za tuzemnu potrošnju	263	257	226	204	308	278	245	229	Available for inland market

3.2.1. MOTORNI BENZIN
MOTOR GASOLINE

tis. tona
'000 tonnes

Opskrba	Motorni benzin Motor gasoline								Supply
	2020.				2021.				
	IX.	X.	XI.	XII.	IX.	X.	XI.	XII.	
Proizvodnja	78	75	25	20	67	79	5	13	Production
Uvoz	11	13	9	5	5	4	38	30	Import
Izvoz	49	11	14	8	26	25	8	11	Export
Promjena zaliha	4	45	-11	-9	5	24	8	-1	Variation of stocks
Raspoloživo za tuzemnu potrošnju	36	32	31	26	41	34	27	33	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.				
	IX.	X.	XI.	XII.	IX.	X.	XI.	XII.	
Proizvodnja	134	125	50	12	135	128	10	6	Production
Uvoz	99	96	162	202	87	148	221	235	Import
Izvoz	77	86	66	54	83	77	68	71	Export
Promjena zaliha	-9	-21	-12	19	-52	22	8	34	Variation of stocks
Raspoloživo za tuzemnu potrošnju	165	156	158	141	191	177	155	136	Available for inland market

3.2.3. LOŽIVA ULJA
FUEL OIL

tis. tona
'000 tonnes

Opskrba	Loživa ulja Fuel oil								Supply
	2020.				2021.				
	IX.	X.	XI.	XII.	IX.	X.	XI.	XII.	
Proizvodnja	32	35	9	2	30	8	9	21	Production
Uvoz	4	5	3	3	-	2	1	1	Import
Izvoz	2	32	33	5	33	35	6	13	Export
Promjena zaliha	29	2	-25	-3	-4	-26	-	6	Variation of stocks
Raspoloživo za tuzemnu potrošnju	5	6	4	3	1	1	4	3	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.				
	IX.	X.	XI.	XII.	IX.	X.	XI.	XII.	
Proizvodnja	63	55	31	7	56	82	10	4	Production
Uvoz	24	38	28	24	34	42	53	46	Import
Izvoz	36	27	29	9	21	37	15	7	Export
Promjena zaliha	-6	3	-3	-12	-6	21	-11	-14	Variation of stocks
Raspoloživo za tuzemnu potrošnju	57	63	33	34	75	66	59	57	Available for inland market

4. KRUTA GORIVA
CRUDE FUELS

4.1. KAMENI UGLJEN
HARD COAL

tis. tona
'000 tonnes

Opskrba	Kameni ugljen Hard coal								Supply
	2020.				2021.				
	IX.	X.	XI.	XII.	IX.	X.	XI.	XII.	
Proizvodnja	-	-	-	-	-	-	-	-	Production
Uvoz	71	72	79	73	6	67	76	73	Import
Izvoz	-	-	-	-	-	-	-	-	Export
Promjena zaliha	15	14	12	10	-58	-	9	15	Variation of stocks
Raspoloživo za tuzemnu potrošnju	56	58	67	63	64	67	67	58	Available for inland market

4.2. KOKS
COKE

tis. tona
'000 tonnes

Opskrba	Koks Coke								Supply
	2020.				2021.				
	IX.	X.	XI.	XII.	IX.	X.	XI.	XII.	
Proizvodnja	-	-	-	-	-	-	-	-	Production
Uvoz	4	3	4	3	2	3	2	3	Import
Izvoz	-	-	-	-	-	-	-	-	Export
Promjena zaliha	-	-	-	-	-	-	-	-	Variation of stocks
Raspoloživo za tuzemnu potrošnju	4	3	4	3	2	3	2	3	Available for inland market

4.3. MRKI UGLJEN
BROWN COAL

tis. tona
'000 tonnes

Opskrba	Mrki ugljen Brown coal								Supply
	2020.				2021.				
	IX.	X.	XI.	XII.	IX.	X.	XI.	XII.	
Proizvodnja	-	-	-	-	-	-	-	-	Production
Uvoz	8	2	2	-	2	1	1	-	Import
Izvoz	-	-	-	-	-	-	-	-	Export
Promjena zaliha	5	-4	-4	-2	1	-	-	-1	Variation of stocks
Raspoloživo za tuzemnu potrošnju	3	6	6	2	1	1	1	1	Available for inland market

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, isporukama i potrošnji ugljena i 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 gospodarstva i održivog razvoja.

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 degazolinaži.

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 Economy and Sustainable Development.

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 odzime 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

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

Znakovi

- nema pojave

Symbols

- no occurrence

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Telefon/ Phone: +385 (0) 1 4806-111, telefaks/ Fax: +385 (0) 1 4817-666

Novinarski upiti/ Press corner: press@dzs.hr

Odgovorne osobe:

Persons responsible:

Edita Omerzo, načelnica Sektora prostornih statistika

Edita Omerzo, Director of Spatial Statistics Directorate

Lidija Brković, glavna ravnateljica

Lidija Brković, Director General

Priredili: Darko Jukić, Ana Grabić, Mirjana Petanjek i Željka Oršanić Kelebuš

Prepared by: Darko Jukić, Ana Grabić, Mirjana Petanjek and Željka Oršanić Kelebuš

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Elektronička pošta/ E-mail: stat.info@dzs.hr
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Telefon/ Phone: +385 (0) 1 4806-115
Elektronička pošta/ E-mail: prodaja@dzs.hr
Telefaks/ Fax: +385 (0) 1 4806-148