

REPORT

ON POWER FLOWS IN THE TRANSMISSION SYSTEM OF BOSNIA AND HERZEGOVINA IN 2024

Sarajevo, February 2025

This Report presents power flows in the transmission system in BiH in 2024. It includes main review of power flows and specific indicators and their comparison with previous year.

Electricity balance in the transmission system

Total amount of 18.556 GWh of electricity was available in the transmission network of BiH in 2024. Total of 13.640 GWh was produced in the transmission system and another 196 GWh of electricity was injected from the distribution system. From the neighbouring systems 4.719 GWh of electricity was received.

Out of totally available electricity in the transmission network, distribution companies took over 10.193 GWh, customers directly connected to the transmission system took over 716 GWh, neighbouring systems were delivered 7.175 GWh, while transmission losses amounted to 333 GWh, which makes 1,79 % of totally available electricity in the transmission network. In 2024, PSHPP Čapljina in pumping regime took over 14 GWh.

Takeover of electricity from the transmission system in BiH in 2024 was 5% higher than in 2023.

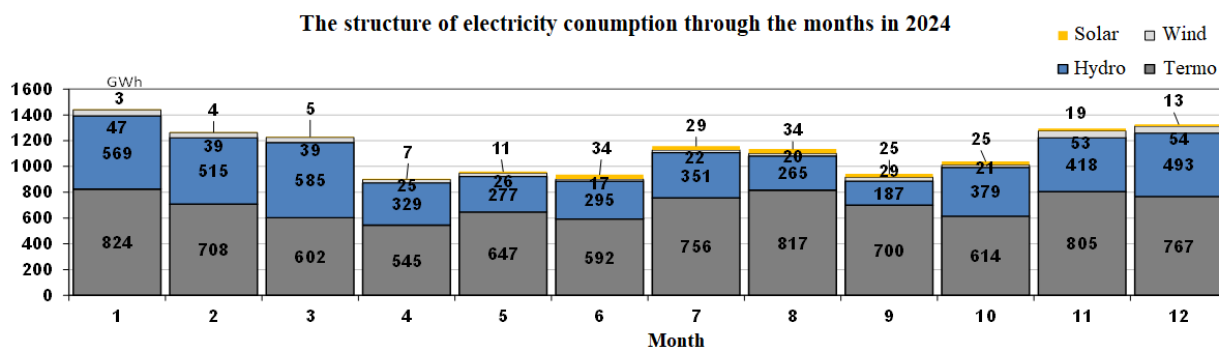
Electricity generation in the transmission system

Out of totally produced 13.640 GWh of electricity in the transmission system in 2024, Hydro Power Plants produced 4.662 GWh, i.e. 34% of electricity, and Thermal Power Plants produced 8.376 GWh, i.e. 61% of electricity. Wind Power Plants generated 394 GWh i.e. 3% of electricity and Solar Power Plants produced 209 GWh i.e. 2% of electricity. In 2024 Thermal Power Plants generation is 1% higher. Hydro Power Plants generated 25% less energy, while Wind Power Plants generated 10% more energy than in 2023.

Over the course of 2024 these solar power plants were put into operation: Zvizdan Solar Photovoltaic Plant, Bileća Solar Power Plant, Hodovo Solar Photovoltaic Plant and Photovoltaic Plant Deling Invest. As a result, the generation produced in solar power plants in 2024 was fifteen times higher than in 2023.

Wind Power Plant Iovik was put into operation in September 2024.

The following diagram shows the structure of electricity generation over 12 months in 2024.

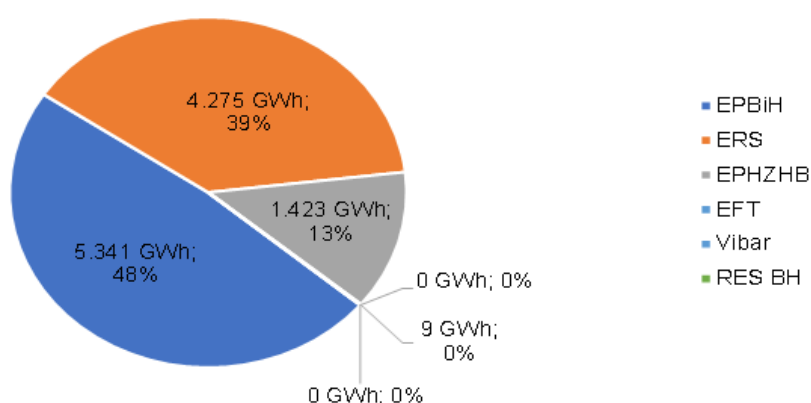


Electricity consumption in the transmission system

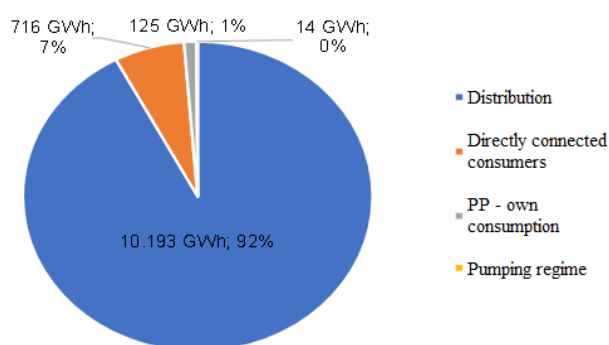
Electricity consumption in the transmission system of BiH in 2024 amounted to 11.047 GWh and is 5% higher than in 2023. Consumption of PSHHP Čapljina in pumping regime amounted to 14 GWh. Distribution companies took over 10.193 GWh from the transmission system, and users directly connected to the transmission system took over 716 GWh of electricity. The power plants' own consumption in 2024 amounted to 125 GWh.

The following diagrams show the consumption of balance responsible parties and the consumption structure in terms of consumption categories and administrative units in BiH.

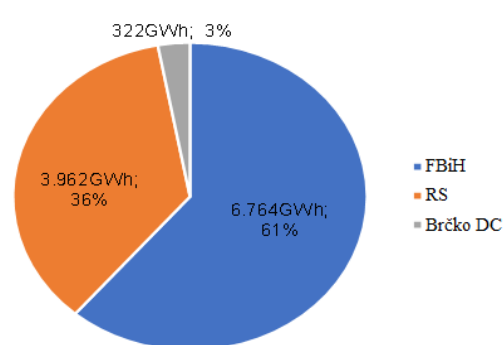
BRP's electricity takeover from the BiH transmission system in 2024



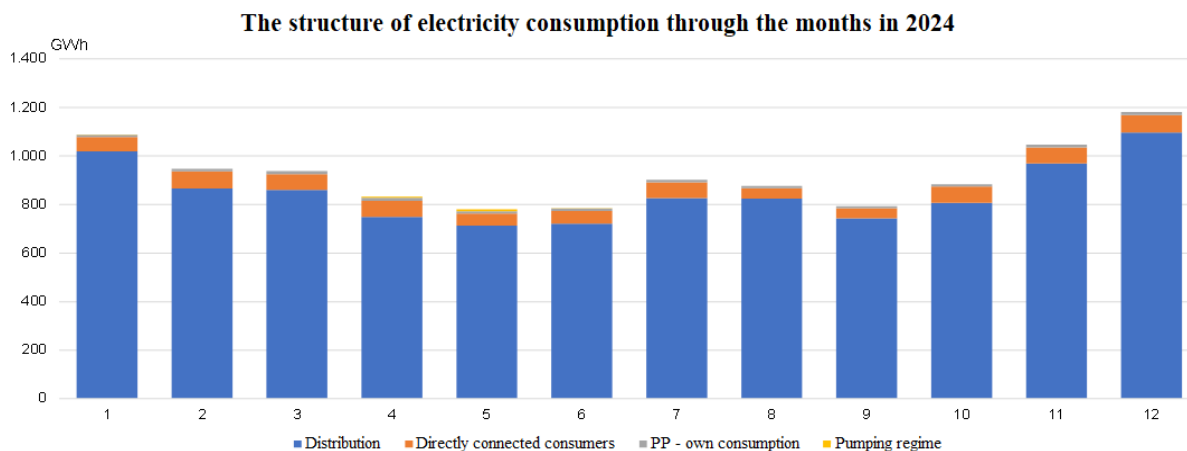
Structures relating consumption category 2024



Consumption through administrative units

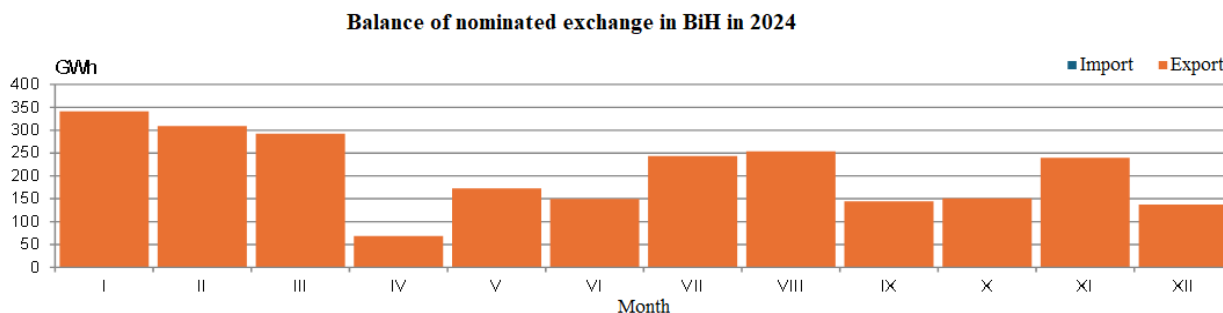


The highest monthly consumption of 1.181 GWh in the transmission system in BiH was recorded in December. The lowest monthly consumption was in May amounting to 779 GWh of electricity. The following diagram shows monthly consumption in the transmission system in BiH.



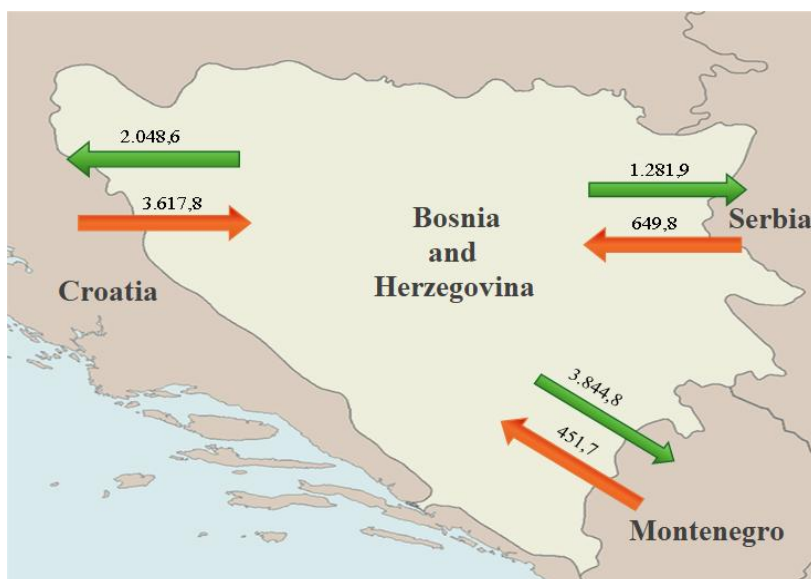
Nominated power exchange with neighbouring systems

According to nominated exchange programmes, in the year 2024, 5.937 GWh of electricity was imported in BiH power system, and 8.441 GWh of electricity was exported from BiH power system. In 2024, out of the above given amount, 3.916 GWh of electricity was transited over BiH transmission network. The balance amount of 2.504 GWh of exported energy indicates that electricity export was reduced by 41% in comparison to the year 2023.



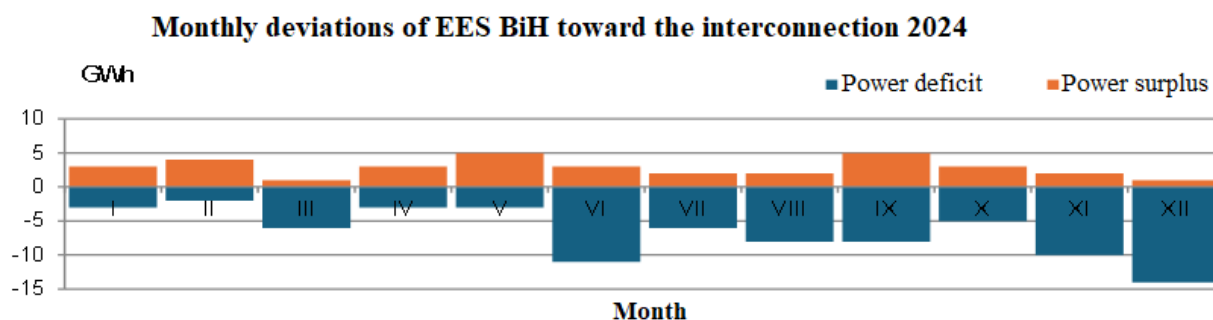
Crossborder power flows

Actual physical power flows on interconnection lines in 2024 resulted with the balance of exchanged electricity of BiH Control Area in amount of 2.456 GWh in direction of export. From neighbouring systems 4.719 GWh was injected in BiH transmission system and in other systems 7.175 GWh of electricity was delivered. Power flows on the borders with neighbouring systems were such that in 2024 on the border with Croatia 1.569 GWh was delivered. On the border with Serbia 632 GWh of electricity was delivered from BiH transmission system, and on the border with Montenegro 3.393 GWh of electricity was delivered.



Deviations from nominated exchange programmes

Unintentional deviations from nominated exchange programmes in 2024 were 80 GWh in total for the hours with deficit registered, i.e. the total of 34 GWh for the hours with energy surplus registered in BiH Control Area. Maximum hourly electricity deficit in amount of 901 MWh/h was registered in June, and electricity surplus of 183 MWh/h was registered also in June 2024.



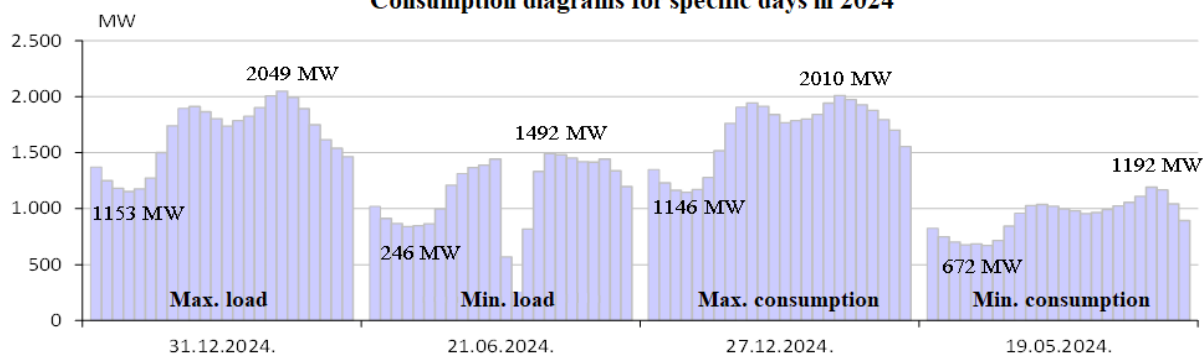
Specific values of hourly and daily consumption

Maximum hourly load in 2024 in amount of 2 049 MWh/h was realized on 31st December 2024 in the 18th hour. Maximum daily consumption in amount of 40 197 MWh of electricity was realized on 27th December. Minimum hourly consumption in amount of 246 MWh was registered on 21st June 2024 in the 14th hour, and the reason for such low consumption is black out of the transmission system in BiH. Minimum daily consumption of electricity in amount of 22.280 MWh was registered on 19th May.

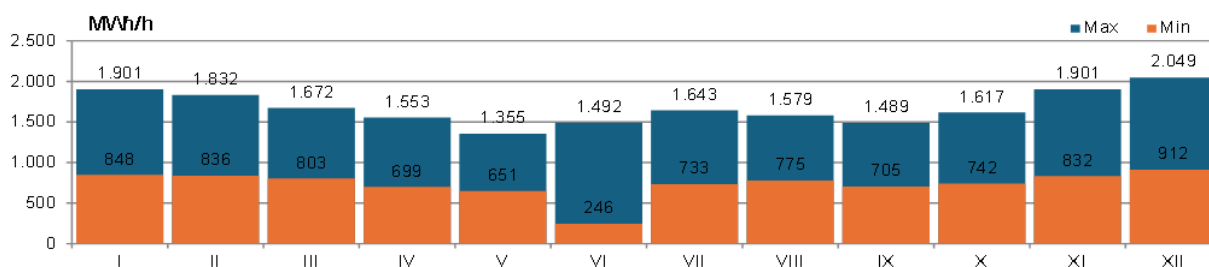
Specific values of electricity consumption in 2024

Max hourly consumption			Min hourly cosumption			Max daily consumption		Min daily consumption	
MWh	Day	Hour	MWh	Day	Hour	MWh	Day	MWh	Day
2.049	31.12.2024.	18:00	246	21.06.2024.	14:00	40.197	27.12.2024.	22.280	19.05.2024.

Consumption diagrams for specific days in 2024



Maximum and minimum hourly consumption through the months in 2024



Podaci o karakterističnoj satnoj i dnevnoj potrošnji u 2024. godini

Mjesec	Max. satna potrošnja			Min. satna potrošnja			Max. dnevna potrošnja		Min. dnevna potrošnja	
	MWh/h	Dan	Sat	MWh/h	Dan	Sat	MWh	Dan	MWh	Dan
Januar	1.901	11.1.2024	18	848	2.1.2024	4	38.376	12.1.2024	29.373	1.1.2024
Februar	1.832	1.2.2024	18	836	12.2.2024	4	36.843	1.2.2024	29.151	11.2.2024
Mart	1.672	12.3.2024	18	803	31.3.2024	6	32.720	7.3.2024	24.182	31.3.2024
April	1.553	24.4.2024	21	699	15.4.2024	4	31.139	24.4.2024	23.243	14.4.2024
Maj	1.355	4.5.2024	21	651	20.5.2024	4	26.625	14.5.2024	22.280	19.5.2024
Juni	1.492	21.6.2024	17	246	21.6.2024	14	29.029	20.6.2024	22.421	16.6.2024
Juli	1.643	17.7.2024	15	733	3.7.2024	4	32.568	16.7.2024	24.651	7.7.2024
August	1.579	16.8.2024	16	775	5.8.2024	4	31.066	16.8.2024	24.707	4.8.2024
Septembar	1.489	30.9.2024	20	705	15.9.2024	4	27.823	19.9.2024	23.512	22.9.2024
Oktobar	1.617	30.10.2024	18	742	14.10.2024	4	30.584	24.10.2024	24.962	13.10.2024
Novembar	1.901	15.11.2024	18	832	3.11.2024	4	37.838	14.11.2024	28.557	3.11.2024
Decembar	2.049	31.12.2024	18	912	2.12.2024	4	40.197	27.12.2024	32.367	1.12.2024
2024	2.049	31.12.2024	18	246	21.6.2024	14	40.197	27.12.2024	22.280	19.5.2024

BALANCE OF ELECTRICITY IN THE TRANSMISSION SYSTEM

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	2024	2024/2023
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	%
Electricity generation in the transmission system														
(1) HPP	569	515	585	329	277	295	351	265	187	379	418	493	4,662	75%
(2) TPP	824	708	602	545	647	592	756	817	700	614	805	767	8,376	101%
(3) WPP	47	39	39	25	26	17	22	20	29	21	53	54	394	110%
(4) SPP	3	4	5	7	11	34	29	34	25	25	19	13	209	1447%
(5) Generation TOTAL (1+2+3+4)	1,444	1,266	1,231	905	961	937	1,158	1,136	942	1,039	1,295	1,327	13,640	92%
(6) Energy received from the distrib. system	18	19	22	19	14	13	15	16	15	19	13	14	196	75%
Electricity import from the neighbouring power systems														
(7) from EES Croatia	238	186	228	203	269	438	403	433	274	319	241	387	3,618	175%
(8) from EES Serbia	62	90	89	122	59	21	6	17	46	69	37	32	650	66%
(9) from EES Montenegro	29	48	58	94	45	13	11	10	27	47	41	28	452	74%
(10) Import TOTAL (7+9)	329	323	375	419	373	472	420	460	347	435	319	447	4,719	129%
(11) AVAILABLE ENERGY (3+4+8)	1,789.8	1,607.6	1,628.0	1,343.9	1,348.5	1,422.7	1,592.8	1,611.8	1,303.8	1,492.2	1,626.5	1,788.2	18,555.8	99%
Takeover of electricity from the transmission system														
(12) Distribution companies	1,019	866	859	749	713	721	826	824	743	807	969	1,096	10,193	103%
(13) Directly connected consumers *	59	70	66	65	49	52	65	43	42	67	66	72	716	126%
(14) Power plants own consumption	10	11	12	12	10	11	11	10	8	9	11	12	126	103%
(15) Takeover TOTAL (12+13+14)	1,087	947	937	827	772	783	902	877	793	883	1,046	1,181	11,034	105%
Electricity Export to the neighbouring power systems														
(16) for EES Croatia	178	223	236	268	165	88	123	119	160	150	200	139	2,049	61%
(17) for EES Serbia	99	68	75	43	94	127	180	178	77	89	131	121	1,282	135%
(18) for EES Montenegro	393	342	351	177	289	400	357	411	251	345	219	311	3,845	107%
(19) Export TOTAL (16+19)	670	633	663	487	547	614	660	707	488	584	550	572	7,175	91%
(20) Pumping	0	0	0	5	7	1	0	0	0	0	0	0	14	91%
(21) REQUIRED POWER (15+19+20)	1,756.9	1,580.3	1,599.4	1,319.6	1,326.7	1,399.1	1,561.5	1,584.1	1,280.5	1,466.3	1,596.2	1,752.4	18,223.2	99%
Transmission losses														
(22) Transmission losses (11-21)	33	27	29	24	22	24	31	28	23	26	30	36	333	99%
(23) In relation to available power (22)/(11)	1.84%	1.69%	1.75%	1.80%	1.61%	1.66%	1.96%	1.71%	1.79%	1.74%	1.86%	2.00%	1.79%	100%

ELECTRICITY INJECTED IN THE TRANSMISSION SYSTEM

OBJEKAT	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	2024	2024/2023
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	%
HPP Jablanica	87	77	86	47	26	30	35	35	42	62	58	49	634	76%
HPP Grabovica	31	28	31	17	10	11	12	12	15	24	24	22	237	80%
HPP Salakovac	46	43	49	25	11	15	11	11	18	39	31	30	330	75%
HPP Visegrad	105	92	104	78	54	36	30	31	25	48	54	75	733	60%
HPP Trebinje 1	42	32	40	29	35	43	60	28	2	17	32	38	399	85%
HPP Trebinje 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0%
HPP Dubrovnik (G2)	65	67	72	37	59	70	69	53	1	54	72	77	696	106%
HPP Bošac	20	17	21	18	13	9	8	6	7	13	11	18	161	56%
HPP Dub	10	9	9	6	4	2	2	1	1	2	2	6	53	57%
HPP Rama	85	61	71	12	27	44	52	65	40	55	67	84	662	89%
HPP Mostar	27	25	28	17	10	11	9	8	12	21	20	19	207	82%
HPP Jajce 1	24	21	24	19	14	11	8	6	6	13	13	19	178	60%
HPP Jajce 2	7	7	7	6	5	4	5	2	2	4	4	6	59	75%
PSHPP Čapljina	5	17	10	5	5	3	50	7	14	13	26	38	194	56%
HPP Peć-Mlini	8	8	15	6	2	1	0	0	0	3	1	3	48	61%
HPP Mostarsko Blato	7	11	19	6	1	2	0	0	1	9	3	7	65	61%
HPP Ulog	0	0	0	0	0	0	0	0	0	0	0	3	3	0%
HYDRO POWER PLANTS	568,8	515,2	585,0	328,8	276,5	294,5	350,8	265,1	187,3	378,6	418,1	492,9	4.661,5	75 %
TPP Tuzla	218	165	163	199	207	206	236	223	197	86	240	225	2.364	130%
TPP Kakanj	132	155	95	104	106	100	164	153	71	80	160	161	1.482	89%
TPP Ugljevik	136	143	108	136	31	16	163	140	119	159	121	59	1.329	89%
TPP Gacko	138	126	97	106	116	93	0	109	123	132	112	124	1.274	96%
TPP Smanj	200	118	140	0	186	177	193	193	190	158	172	199	1.926	97%
THERMAL POWER PLANTS	824,2	707,6	602,1	544,8	646,5	592,3	756,0	815,8	699,8	614,4	804,7	766,9	8.376,1	101 %
WPP Mesihovina	19	15	16	11	10	7	8	7	12	7	13	14	139	92%
WPP Jelovača	14	12	12	7	9	6	7	6	10	6	9	6	102	98%
WPP Podveležje	14	13	11	8	7	4	8	7	8	5	12	11	107	106%
WPP Iovik	0	0	0	0	0	0	0	0	0	4	19	23	46	0%
WIND POWER PLANTS	47,3	39,4	39,3	25,2	26,4	16,7	22,2	20,1	29,4	21,0	52,8	53,9	393,9	110%
SPP Penjik	3	4	5	7	7	7	8	7	5	5	4	3	64	441%
SPP Zvizdan	0	0	0	0	3	5	6	5	4	4	3	2	32	0%
SPP Bičica	0	0	0	0	1	15	5	7	5	4	3	2	42	0%
SPP Hodovo	0	0	0	0	0	7	10	10	8	9	8	6	59	0%
SPP Deling Invest	0	0	0	0	0	0	0	4	4	3	1	1	12	0%
SOLAR POWER PLANTS	3,3	3,5	4,5	6,7	11,4	33,9	28,9	33,8	25,3	24,9	19,5	13,2	208,9	1447%
GENERATION	1.443,6	1.265,7	1.230,9	905,5	961,0	937,4	1.157,9	1.135,8	941,8	1.038,9	1.295,2	1.326,9	13.640,4	92 %

TAKE OVER FROM THE TRANSMISSION SYSTEM

CATEGORY	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	2024	2024/2023
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	%
Take over from the transmission sy	1.087,1	946,9	936,9	832,3	779,4	784,6	901,5	876,9	792,6	882,7	1.046,3	1.180,6	11.047,4	104,53%
Distribution	471	403	403	354	338	336	378	376	347	379	452	508	4.743	104,16%
Direct consumers	39	51	45	45	29	32	45	42	34	47	46	53	506	100,48%
Power Plants - their own consumpti	8	8	8	7	7	7	9	7	6	7	9	9	91	96,88%
EPBiH	518,2	461,7	455,5	405,9	373,7	374,6	431,2	425,3	386,6	431,7	506,7	569,7	5.340,9	103,67%
Distribution	407	345	341	298	283	289	329	326	295	324	389	439	4.064	102,87%
Direct consumers	19	18	19	19	19	19	19	0	7	19	18	18	194	508,73%
Power Plants - their own consumpti	1	0	3	2	2	2	1	1	1	0	2	2	16	120,44%
ERS	426,8	363,0	362,6	318,6	304,3	310,1	348,6	327,4	303,3	343,3	408,6	458,5	4.274,7	106,81%
Distribution	140	118	116	97	92	96	119	121	101	105	129	150	1.385	101,87%
Direct consumers	1	1	1	1	1	1	1	2	1	1	1	1	15	61,44%
Power Plants - their own consumpti	1	1	1	1	1	1	1	1	1	1	1	1	9	114,92%
Pumping regime - PHE Čapljina	0	0	0	5	7	1	0	0	0	0	0	0	14	91,01%
EPHZHB	142,1	120,5	117,6	104,3	101,1	99,5	121,7	124,1	102,9	106,8	130,4	152,1	1.423,0	101,11%
Distribution	0	0	0	0	0	0	0	0	0	0	0	0	0	
Direct consumers	0	0	0	0	0	0	0	0	0	0	0	0	0	
Power Plants - their own consumpti	0	2	1	3	0	0	0	0	0	1	1	0	9	134,48%
EFT	0,0	1,7	1,2	3,5	0,4	0,4	0,0	0,0	0,0	0,8	0,5	0,1	8,7	134,48%
Distribution	0	0	0	0	0	0	0	0	0	0	0	0	0	
Direct consumers	0	0	0	0	0	0	0	0	0	0	0	0	0	
Power Plants - their own consumpti	0	0	0	0	0	0	0	0	0	0	0	0	0	
Vibar	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,0	0,0	0,0	0,0	0,1	
Distribution	0	0	0	0	0	0	0	0	0	0	0	0	0	
Direct consumers	0	0	0	0	0	0	0	0	0	0	0	0	0	
Power Plants - their own consumpti	0	0	0	0	0	0	0	0	0	0	0	0	0	
RES BH	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,1	0,1	0,1	0,5	

Diagram of consumption for a day in a month with max hourly consumption

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Σ
January	1238	1138	1077	1061	1087	1181	1397	1640	1804	1856	1839	1817	1792	1829	1828	1817	1854	1901	1852	1808	1755	1682	1585	1421	38.263
February	1195	1104	1064	1053	1078	1213	1472	1721	1816	1784	1721	1671	1609	1628	1638	1662	1721	1832	1826	1787	1730	1644	1526	1347	36.843
March	1008	921	882	950	990	1005	1162	1374	1453	1460	1437	1447	1442	1495	1500	1496	1556	1672	1600	1570	1505	1415	1309	1151	31.802
April	1009	920	871	854	873	964	1136	1371	1456	1478	1482	1479	1473	1464	1479	1459	1446	1437	1444	1500	1553	1483	1329	1178	31.139
May	889	798	758	740	753	794	874	1052	1174	1213	1196	1173	1148	1136	1161	1150	1136	1123	1148	1211	1355	1330	1197	1065	25.573
June	1019	912	866	841	848	864	997	1210	1312	1368	1388	1443	568	246	818	1332	1492	1482	1452	1418	1414	1442	1338	1196	27.265
July	1142	1034	976	949	952	965	1090	1302	1408	1477	1503	1553	1588	1616	1643	1611	1584	1537	1492	1457	1471	1494	1373	1246	32.461
August	1060	954	896	866	867	895	990	1184	1292	1366	1417	1488	1523	1535	1572	1579	1562	1527	1504	1487	1528	1461	1320	1193	31.066
September	838	778	739	730	749	830	1042	1272	1318	1273	1207	1180	1171	1175	1189	1177	1188	1240	1362	1489	1449	1369	1219	1069	27.054
October	950	874	843	832	861	970	1167	1363	1432	1410	1339	1305	1257	1279	1317	1371	1477	1617	1583	1536	1495	1406	1281	1125	30.091
November	1199	1101	1052	1040	1073	1191	1435	1673	1763	1765	1741	1738	1709	1758	1775	1795	1867	1901	1836	1786	1732	1636	1524	1377	37.467
December	1372	1249	1181	1153	1175	1272	1501	1739	1895	1912	1866	1804	1736	1785	1825	1901	2006	2049	1996	1893	1748	1616	1539	1464	39.676

Diagrams of consumption for a days of the month with max hourly consumption

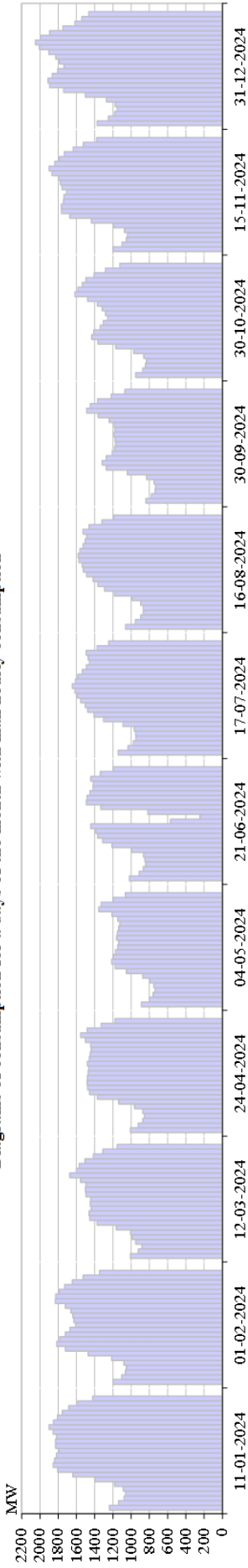


Diagram of consumption for a day in a month with min hourly consumption

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Σ
January	1027	927	876	848	858	909	1021	1143	1296	1411	1456	1434	1390	1390	1376	1416	1517	1577	1539	1505	1466	1404	1335	1203	30.324
February	961	889	851	836	868	977	1206	1432	1559	1589	1559	1542	1521	1552	1538	1511	1511	1586	1589	1547	1500	1434	1331	1176	32.064
March	905	826	905	809	829	803	804	896	1012	1089	1114	1121	1103	1080	1071	1098	1127	1172	1267	1301	1318	1255	1162	1018	25.087
April	813	741	709	699	719	805	970	1173	1209	1193	1143	1148	1147	1164	1208	1182	1182	1165	1174	1257	1336	1261	1118	995	25.512
May	769	695	666	651	669	709	869	1079	1142	1141	1104	1107	1119	1128	1171	1168	1166	1139	1125	1147	1242	1241	1104	963	24.315
June	1019	912	866	841	848	864	997	1210	1312	1368	1388	1443	568	246	818	1332	1492	1482	1452	1418	1414	1442	1338	1196	27.265
July	866	787	744	733	754	775	899	1073	1136	1155	1148	1186	1202	1201	1241	1219	1189	1158	1139	1150	1204	1248	1133	1009	25.347
August	911	834	792	775	778	795	899	1082	1172	1219	1224	1249	1263	1291	1334	1342	1333	1317	1313	1309	1360	1348	1226	1099	27.266
September	842	766	729	705	710	738	781	903	1066	1187	1240	1238	1226	1207	1200	1185	1198	1217	1261	1345	1324	1230	1093	937	25.328
October	850	779	752	742	765	850	1060	1264	1301	1266	1183	1138	1112	1103	1149	1174	1199	1250	1379	1407	1372	1281	1146	1020	26.543
November	974	898	851	832	842	899	970	1100	1225	1289	1293	1267	1224	1198	1222	1295	1432	1553	1536	1504	1466	1379	1233	1075	28.557
December	1053	967	921	912	954	1082	1349	1611	1708	1701	1636	1615	1588	1645	1697	1728	1788	1789	1734	1689	1644	1565	1441	1272	35.091

MWh

Diagrams of consumption for a days of the month with min hourly consumption

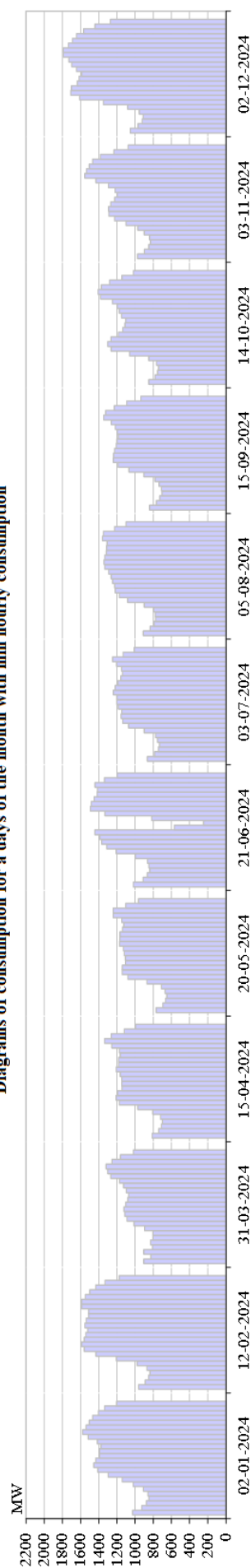


Diagram of consumption on the third Wednesday in a month

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Σ
January	1200	1090	1037	1021	1044	1147	1381	1624	1775	1821	1803	1784	1763	1784	1773	1754	1763	1777	1725	1672	1616	1531	1428	1258	36.570
February	1059	969	927	915	943	1054	1282	1493	1572	1551	1501	1466	1424	1454	1454	1455	1462	1580	1663	1628	1576	1492	1381	1227	32.527
March	1043	962	923	978	1000	1034	1201	1382	1426	1381	1315	1294	1278	1314	1312	1310	1376	1543	1577	1601	1549	1467	1353	1184	30.803
April	890	816	772	763	780	863	1021	1249	1360	1419	1418	1409	1387	1366	1393	1362	1353	1336	1351	1419	1470	1390	1253	1112	28.951
May	878	785	745	730	755	803	961	1167	1228	1222	1177	1161	1146	1140	1184	1187	1181	1159	1167	1222	1323	1294	1149	1005	25.770
June	934	838	788	772	779	802	942	1136	1214	1240	1244	1283	1307	1330	1372	1361	1347	1337	1321	1310	1333	1373	1252	1114	27.726
July	1142	1034	976	949	952	965	1090	1302	1408	1477	1503	1553	1588	1616	1643	1611	1584	1537	1492	1457	1471	1494	1373	1246	32.461
August	918	844	802	786	791	841	948	1157	1229	1255	1248	1277	1304	1334	1378	1361	1327	1305	1289	1305	1371	1298	1160	1043	27.573
September	884	800	765	750	764	845	1027	1238	1314	1302	1236	1209	1203	1219	1258	1266	1286	1285	1323	1425	1393	1298	1148	1018	27.257
October	925	846	810	790	817	900	1107	1318	1369	1349	1276	1238	1212	1197	1242	1262	1294	1347	1475	1490	1437	1343	1200	1059	28.303
November	1139	1040	992	971	999	1109	1335	1546	1627	1626	1605	1596	1606	1670	1716	1742	1791	1776	1715	1668	1622	1538	1412	1240	35.083
December	1239	1127	1083	1068	1097	1226	1494	1738	1824	1792	1710	1663	1616	1676	1743	1811	1905	1932	1874	1827	1776	1695	1596	1433	37.945

Diagrams of consumption on the 3rd Wednesday in each month

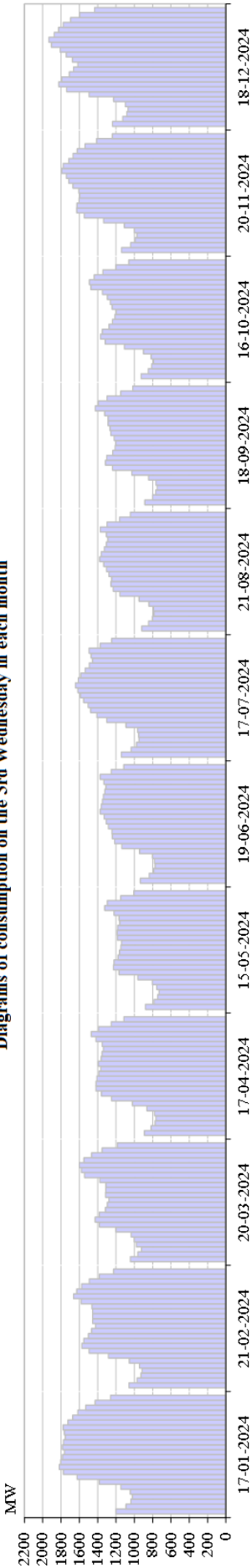


Diagram of consumption for a day in a month with max. consumption

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Σ
January	1264	1.146	1.097	1.074	1.097	1.189	1.409	1.649	1.810	1.861	1.857	1.849	1.820	1.859	1.853	1.837	1.848	1.883	1.831	1.787	1.735	1.650	1.556	1.414	38.376
February	1.195	1.104	1.064	1.053	1.078	1.213	1.472	1.721	1.816	1.784	1.721	1.671	1.609	1.628	1.638	1.662	1.721	1.832	1.826	1.787	1.730	1.644	1.526	1.347	36.843
March	1.012	921	882	867	894	1.004	1.216	1.449	1.554	1.574	1.551	1.537	1.527	1.559	1.556	1.551	1.553	1.600	1.651	1.608	1.556	1.497	1.380	1.219	32.720
April	1.009	920	871	854	873	964	1.136	1.371	1.456	1.478	1.482	1.479	1.473	1.464	1.479	1.459	1.446	1.437	1.444	1.500	1.553	1.483	1.329	1.178	31.139
May	881	791	759	744	767	812	958	1.163	1.246	1.287	1.254	1.255	1.250	1.255	1.284	1.256	1.235	1.219	1.212	1.241	1.318	1.282	1.148	1.009	26.625
June	966	867	813	793	804	828	964	1.174	1.273	1.313	1.323	1.354	1.387	1.408	1.459	1.436	1.417	1.400	1.376	1.369	1.388	1.429	1.317	1.175	29.029
July	1.130	1.027	963	943	936	957	1.086	1.297	1.398	1.457	1.486	1.530	1.560	1.567	1.610	1.591	1.569	1.547	1.544	1.528	1.534	1.563	1.447	1.298	32.568
August	1.060	954	896	866	867	895	990	1.184	1.292	1.366	1.417	1.488	1.523	1.535	1.572	1.579	1.562	1.527	1.504	1.487	1.528	1.461	1.320	1.193	31.066
September	887	809	767	753	771	847	1.026	1.230	1.320	1.349	1.330	1.335	1.310	1.277	1.325	1.315	1.293	1.288	1.335	1.420	1.383	1.289	1.146	1.016	27.823
October	978	889	844	836	862	956	1.170	1.413	1.485	1.477	1.423	1.388	1.363	1.362	1.411	1.417	1.443	1.484	1.581	1.549	1.496	1.403	1.248	1.108	30.584
November	1.171	1.078	1.030	1.019	1.051	1.168	1.407	1.654	1.782	1.817	1.796	1.800	1.797	1.838	1.846	1.846	1.892	1.899	1.842	1.798	1.752	1.657	1.537	1.361	37.838
December	1.350	1.231	1.164	1.146	1.170	1.278	1.517	1.761	1.906	1.945	1.914	1.841	1.767	1.786	1.800	1.842	1.942	2.010	1.974	1.929	1.877	1.795	1.701	1.554	40.197

Diagrams of consumption for the days of the months with max consumption

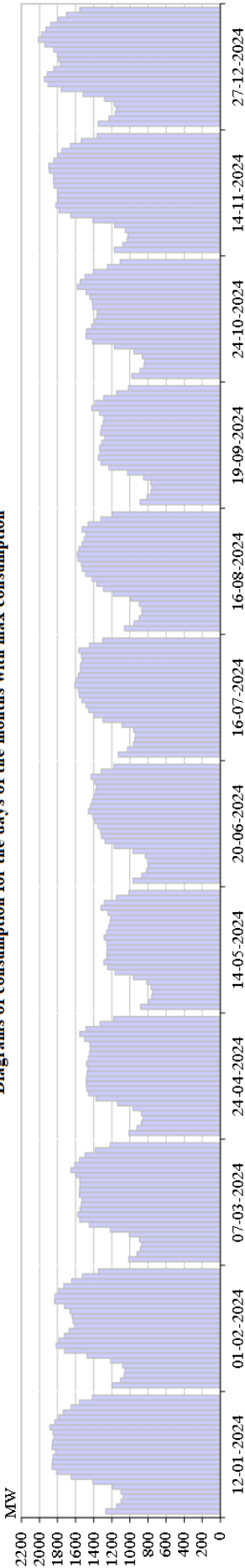
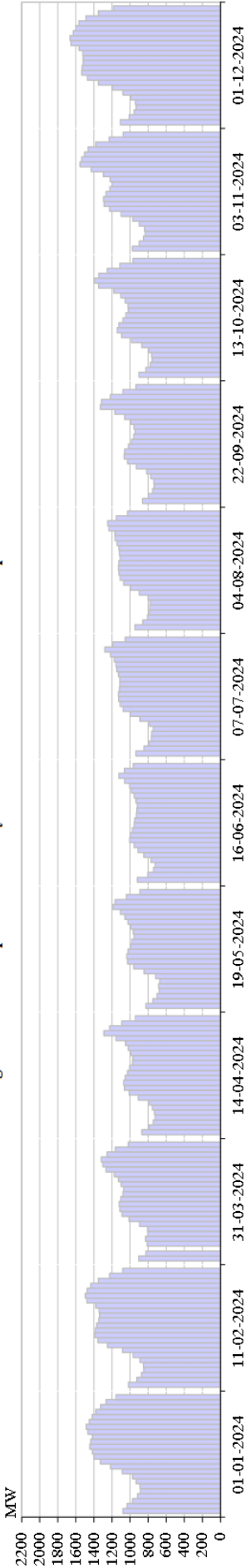


Diagram of consumption for a day in a month with min. consumption

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Σ
January	1080	1033	973	917	886	890	932	972	1086	1216	1330	1398	1415	1446	1436	1416	1467	1486	1451	1419	1379	1325	1265	1156	29.373
February	1018	924	873	848	851	890	965	1083	1251	1356	1391	1384	1370	1347	1336	1344	1379	1479	1496	1474	1435	1352	1226	1081	29.151
March	905	826	809	829	803	803	804	896	1012	1089	1114	1121	1103	1080	1071	1098	1127	1172	1267	1301	1318	1255	1162	1018	24.182
April	869	788	742	722	729	753	787	911	1009	1063	1070	1053	1028	1004	972	970	993	1021	1052	1155	1291	1228	1091	942	23.243
May	824	749	701	676	684	672	716	844	960	1027	1037	1022	996	980	956	964	991	1025	1057	1109	1192	1166	1042	892	22.280
June	919	803	741	721	768	848	912	955	1006	1000	976	956	949	931	924	921	935	954	982	1005	1061	1125	1064	964	22.421
July	937	847	791	763	762	743	787	894	999	1077	1110	1126	1129	1117	1114	1114	1128	1147	1155	1172	1215	1280	1192	1053	24.651
August	946	858	807	785	783	779	801	899	997	1070	1110	1123	1130	1124	1111	1119	1123	1144	1165	1167	1235	1249	1153	1027	24.707
September	861	798	751	735	738	772	817	931	1028	1066	1058	1017	982	959	943	956	993	1060	1167	1330	1316	1218	1079	934	23.512
October	901	825	777	755	760	795	871	984	1093	1142	1124	1079	1047	1019	1024	1055	1104	1182	1349	1397	1346	1253	1114	967	24.962
November	974	898	851	832	842	899	970	1100	1225	1289	1293	1267	1224	1198	1222	1295	1432	1553	1536	1504	1466	1379	1233	1075	28.557
December	1109	1010	955	933	940	992	1078	1197	1350	1472	1535	1529	1520	1519	1522	1565	1654	1666	1627	1603	1566	1489	1350	1185	32.367

Diagrams of consumption for the days of the months with min consumption



NOMINATED EXCHANGE PROGRAME WITH NEIGHBOURING EES

NOMINATED EXCHANGE	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	2024
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh
BiH <-- CRO (HEP-OPS)	340,0	295,0	278,6	280,9	359,9	268,3	385,2	382,9	417,1	360,9	315,9	416,3	4.101,2
BiH <-- SR (EMS)	65,2	81,2	108,4	178,0	96,1	136,3	88,6	69,9	101,0	141,4	65,6	71,6	1.203,3
BiH <-- MG (EPCG)	36,6	30,7	56,8	55,5	45,1	58,2	40,8	31,9	26,1	54,1	115,7	81,0	632,5
(1) Received BiH	441,8	407,0	443,8	514,5	501,1	462,7	514,6	484,7	544,2	556,4	497,3	568,9	5.937,0
BiH --> CRO (HEP-OPS)	173,4	208,3	198,3	170,5	132,3	169,0	172,1	135,5	147,1	196,2	240,3	216,0	2.159,0
BiH --> SR (EMS)	330,7	251,5	282,1	173,8	261,5	209,9	286,7	364,4	319,8	298,9	365,8	345,4	3.490,5
BiH --> MG (EPCG)	279,1	256,3	256,0	238,8	279,8	233,7	299,3	238,7	221,5	212,3	130,6	145,1	2.791,1
(2) Delivered BiH	783,2	716,1	736,4	583,1	673,6	612,5	758,0	738,6	688,4	707,4	736,7	706,6	8.440,6
(3) Balance BiH (2) - (1)	341,4	309,1	292,6	68,7	172,5	149,8	243,4	253,8	144,2	151,0	239,5	137,6	2.503,6
Balance CRO (HEP-OPS)	-166,6	-86,7	-80,3	-110,4	-227,6	-99,3	-213,1	-247,5	-270,0	-164,7	-75,7	-200,3	-1.942,2
Balance SR (EMS)	265,5	170,3	173,7	-4,3	165,4	73,6	198,0	294,5	218,8	157,6	300,2	273,8	2.287,2
Balance MG (EPCG)	242,5	225,6	199,2	183,3	234,7	175,5	258,5	206,7	195,4	158,1	14,9	64,1	2.158,6
Transit	380,5	355,7	358,3	375,2	345,4	294,0	325,9	332,0	308,9	299,9	277,4	263,0	3.916,2
Internal trade													

PHYSICAL EXCHANGE OF BiH WITH NEIGHBOURING EES IN THE TRANSMISSION SYSTEM

PHYSICAL FLOWS	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	2024
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh
BiH <-- CRO (HOPS)	237,8	185,7	227,7	203,5	268,8	437,5	403,4	433,0	273,7	318,5	241,5	386,6	3.617,8
BiH<-SR (EMS)	61,6	89,9	88,7	121,9	59,5	21,3	5,6	17,2	46,1	69,4	36,5	32,2	649,8
BiH<-MG (EPCG)	29,2	47,7	58,4	93,8	45,1	13,4	11,3	10,1	27,2	46,7	40,7	28,2	451,7
(1) Received BiH	328,6	323,2	374,8	419,1	373,4	472,2	428,3	460,3	347,0	434,7	318,7	447,0	4.719,2
BiH --> CRO (HOPS)	177,8	223,3	236,1	267,5	164,9	87,8	122,9	118,7	159,8	150,2	200,0	139,4	2.048,6
BiH --> SR (EMS)	99,2	67,6	75,3	42,6	93,6	127,0	180,2	177,9	77,2	88,7	131,2	121,3	1.281,9
BiH --> MG (EPCG)	392,7	342,5	351,1	177,2	288,8	399,6	356,9	410,7	250,9	344,6	218,6	311,1	3.844,8
(2) Delivered BiH	669,7	633,5	662,5	487,3	547,3	614,5	660,0	707,3	488,0	583,6	549,9	571,8	7.175,3
(3) Balance BiH (2) - (1)	341,2	310,2	287,7	68,2	173,9	142,3	239,7	247,0	141,0	148,9	231,2	124,8	2.456,1
Balance CRO (HOPS)	-60,0	37,6	8,4	64,1	-103,9	-349,7	-280,5	-314,3	-113,9	-168,3	-41,5	-247,2	-1.569,2
BALANCE SR (EMS)	37,6	-22,2	-13,4	-79,3	34,1	105,8	174,6	160,7	31,1	19,3	94,7	89,1	632,2
BALANCE MG (EPCG)	363,5	294,8	292,7	83,4	243,7	386,2	345,6	400,6	223,8	297,9	178,0	282,9	3.393,1

Deviations of EES BiH towards the Interconnection in 2024

Month	Deviation - Energy shortage			Deviation - Energy surplus			Deviation - Total		
	Max. hourly	Average	Total	Max. hourly	Average	Total	Max. Hourly	Average	Total
	MWh/h	MWh/h	MWh	MWh/h	MWh/h	MWh	MWh/h	MWh/h	MWh
January	-59	-7	-2.924	66	9	2.804	66	0	-120
February	-73	-7	-2.342	54	12	3.888	-73	2	1.546
March	-65	-11	-5.941	47	7	1.272	-65	-6	-4.669
April	-126	-9	-3.359	51	10	3.234	-126	0	-125
May	-60	-10	-3.197	102	11	4.745	102	2	1.549
June	-901	-26	-10.811	183	11	3.242	-901	-11	-7.569
July	-71	-12	-5.731	45	7	1.838	-71	-5	-3.893
August	-131	-16	-8.483	44	8	1.722	-131	-9	-6.761
September	-112	-19	-8.123	95	17	5.048	-112	-4	-3.075
October	-97	-11	-5.071	72	9	2.815	-97	-3	-2.256
November	-197	-20	-10.376	79	9	1.910	-197	-12	-8.466
December	-99	-22	-13.962	47	8	1.010	-99	-17	-12.952
2024	-901	-15	-80.745	183	10	33.637	-901	-5	-46.790