

Winter 2017/2018 report and Summer 2018 Outlook

Saša ŠĆEKIĆ

Head of Licensing and Technical Affairs Department
SERC, Bosnia and Herzegovina

Balance Values of the Electric Power Sector of Bosnia and Herzegovina

Year 2017						(GWh)
	EP BIH	ERS	EP HZHB	Komunalno Brčko	Other entities	BIH
Generation in hydro power plants	941.41	1,575.30	1,287.41		27.27	3,831.39
Generation in thermal power plants	6,007.23	2,870.62			2,040.59	10,918.44
Generation in small and industrial PPs	60.38	42.21			298.98	401.57
Generation	7,009.02	4,488.13	1,287.41	0	2,366.84	15,151.40
Distribution consumption	4,730.02	3,772.64	1,399.58	276.86		10,179.10
Transmission losses						341.52
Large customers	1,225.42	339.99	3.40		993.01	2,561.82
PPs self-consumption and pumping		14.03	266.11		3.82	283.96
Consumption	5,955.44	4,126.66	1,669.09	276.86	996.82	13,366.40

Winter Report 2017/2018



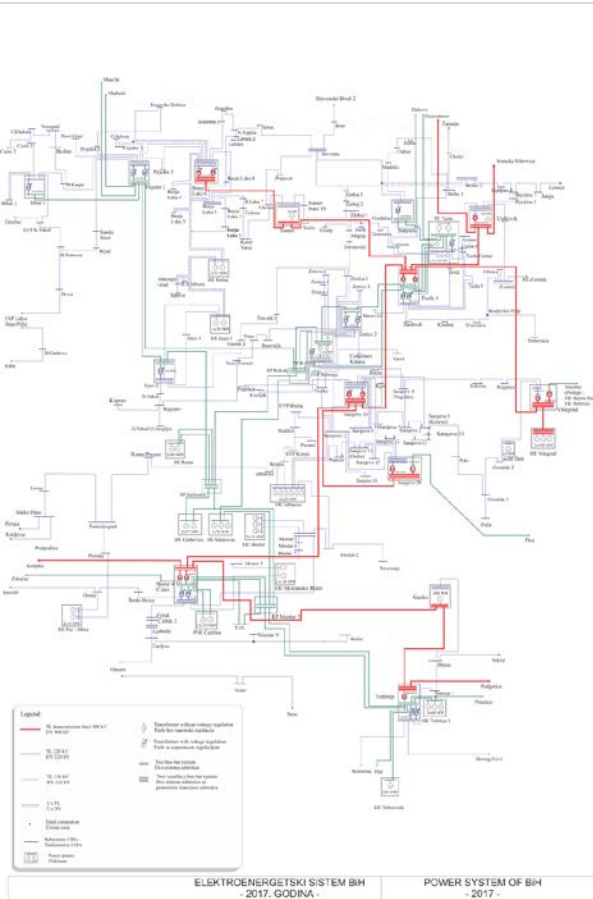
- No problems detected regarding power system adequacy in Bosnia and Herzegovina in the Winter 2017-2018
- During the winter period 2017/2018 there were no significant unusual events in the electric power system of Bosnia and Herzegovina
- The temperatures in December and January were generally lower, and in February and March they were higher than usual.
- Maximum demand occurred at 19:00 on February 28, and it was 1992 MW.
- First Wind Power Plant “Mesihovina” with the installed capacity 50.6 MW put into operation on March 14, 2018

Summer 2018 Outlook



- No particular power system adequacy risks, nor increase of national demand is expected in Bosnia and Herzegovina in summer 2018.
- Results of the adequacy analysis for weeks 22 – 29 show that:
 - Adequacy at synchronous peak time under normal conditions – country is self-sufficient and prone to export from market perspective
 - Adequacy at synchronous peak time under severe conditions - country self-sufficient and prone to export from market perspective
 - Daytime downward regulation adequacy - No generation excess (no need to export)
 - Night-time downward regulation adequacy - No generation excess (no need to export)

Summer 2018 Outlook - network



- Operational readiness of the transmission network infrastructure depends on:
 - Planned maintenance
 - Availability of the transmission network elements (power lines and substations)
 - Maintenance work done previously

Planned Interruptions - Maintenance schedule of Interconnection lines for 2018



Interconnection Lines	Substation 1		Substation 2		Nominal Voltage, kV	Begin Date	End Date
Sremska Mitrovica	Ugljevik	NOS BiH	Sremska Mitrovica	EMS	400	09.05.	09.05.
						03.09.	4. sep
						17.09.	19.09.
Vardište	Višegrad	NOS BiH	Vardište	EMS	220	11.06.	15.06.
Podgorica	Trebinje	NOS BiH	Podgorica	CGES	400	09.04.	11.04.
						02.07.	11.07.
HE Perućica	Trebinje	NOS BiH	HE Perućica	CGES	220	11.06.	15.06.
						17.09.	21.09.
HE Piva	Sarajevo	NOS BiH	HE Piva	CGES	220	10.09.	14.09.
Ernestinovo	Ugljevik	NOS BiH	Ernestinovo	HOPS	400	08.06.	21.06.
Konjsko	Mostar	NOS BiH	Konjsko	HOPS	400	26.03.	06.04.
						01.10.	05.10.
Zakućac	Mostar	NOS BiH	Zakućac	HOPS	220	12.03.	23.03.
Đakovo	TE Tuzla	NOS BiH	Đakovo	HOPS	220	04.05.	04.05.
						27.08.	28.08.
Đakovo	Gradačac	NOS BiH	Đakovo	HOPS	220	28.05.	28.05.
						10. sep	10.09.
Plat	Trebinje	NOS BiH	Plat	HOPS	220	17.05.	18.05.
Međurić	Prijeđor	NOS BiH	Međurić	HOPS	220	28.03.	29.03.
						07.06.	08.06.
TE Sisak	Prijeđor	NOS BiH	TE Sisak	HOPS	220	26.03.	27.03.
						13.06.	14.06.

Monthly interruption plan (400, 220 and 110 kV) – July 2018



Facility	Period and time of interruption
DV 220 kV TS Jajce 2 – RP Jablanica	25.06 - 06.07
DV 220 kV RP Jablanica – HE Grabovica	02.07 – 06.07
DV 110 kV TS Sarajevo 1 – HE Jablanica	02.07 – 13.07
DV 110 kV TS Sarajevo 14 – HE Jablanica	02.07 – 13.07
DV 400 kV TS Višegrad – HE Višegrad	03.07 – 04.07 (08:00 – 18:00)
DV 110 kV TS Cementara – TE Kakanj	06.07 (08:00 – 15:00)
SP 220 kV u RP Jablanica	09.07 – 13.07
DV 220 kV TS Prijedor 2-TS Jajce 2	09.07 – 10.07
DV 110 kV TS Janja- TS Lešnica	10.07 (09:00 – 13:00)
DV 110 kV TS Zvornik- TS Mali Zvornik	11.07 (09:00 – 13:00)
TR 150MVA u TS Jajce 2	11.07 – 12.07
SP 400 kV u TS Sarajevo 20	24.07 – 25.07 (08:00 – 15:00)
DV 110 kV TS Grude – HE Peć Mlini	30.07 – 03.08

Planning documents and secondary legislation



- Long term network development plan for 2018 – 2027 has been approved in March 2018
- Indicative generation development plan for 2019 – 2028 has been approved in May 2018
- National Grid Code prepared by NOS BiH submitted to SERC for approval (expected to be approved in mid July)
- On June 12, SERC adopted a Decision that defines the terms and conditions for transposition of the European Commission Regulations as adapted to the Energy Community legal framework by the decisions of the Permanent High Level Group of 12 January 2018, in the electricity sector of Bosnia and Herzegovina, as follows:
 - Decision 2018/03/PHLG-EnC on incorporating Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a Network Code on requirements for grid connection of generators,
 - Decision 2018/04/PHLG-EnC on incorporating Commission Regulation (EU) 2016/1447 of 26 August 2016 establishing a network code on requirements for grid connection of high voltage direct current systems and direct current-connected power park modules,
 - Decision 2018/05/PHLG-EnC on incorporating Commission Regulation (EU) 2016/1388 of 17 August 2016 establishing a Network Code on Demand Connection.

***Thank you
for your attention!***

sscekic@derk.ba