

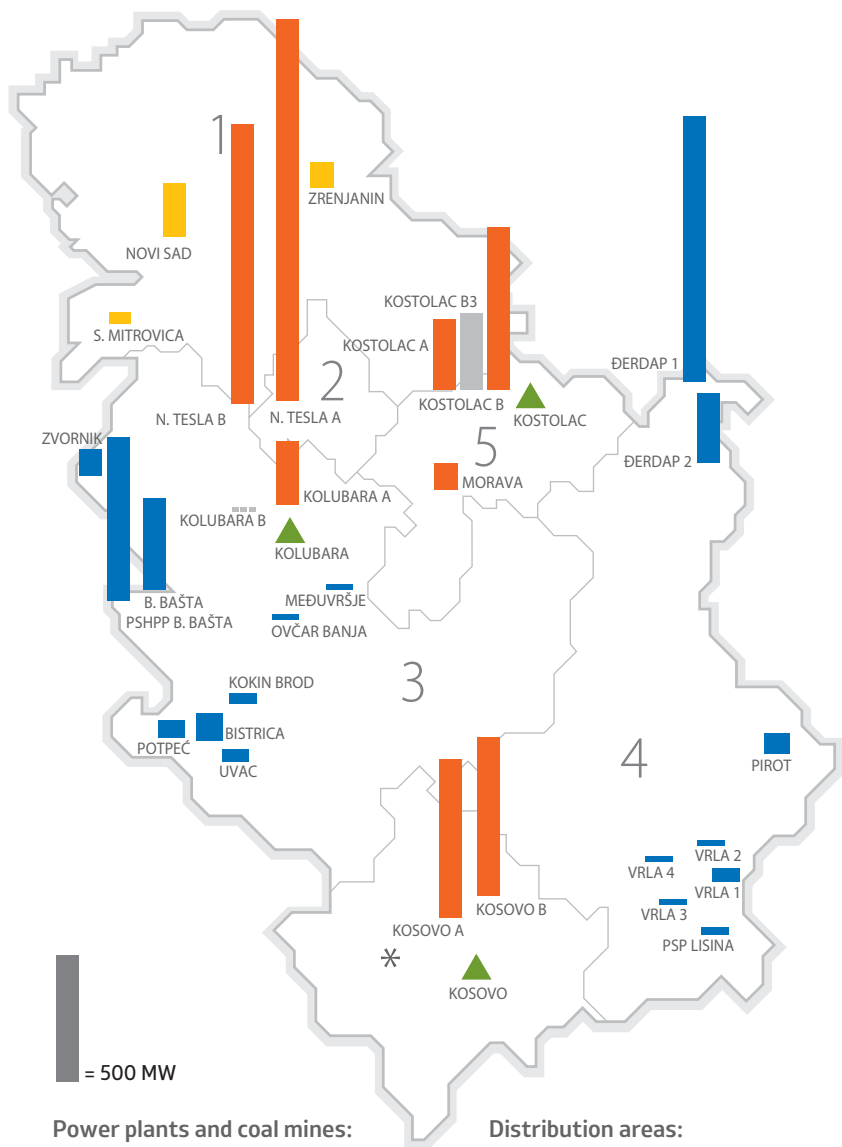
ELECTRIC POWER INDUSTRY OF SERBIA



TECHNICAL REPORT

2017

EPS INSTALLED CAPACITIES



* As of June 1999, EPS does not operate its facilities on the territory of Kosovo and Metohija

EPS 2017

Data related to capacities managed by
Public Enterprise Electric Power Industry of Serbia

GENERATION CAPACITIES

Net output capacity 7,355 MW

ELECTRICITY GENERATION

34,004 GWh

COAL PRODUCTION

39,064,457 t

OVERBURDEN REMOVAL

103,429,947 bcm

ELECTRICITY SALE

35,474 GWh

In EPS Group 33,533 GWh

Out of EPS Group 1,941 GWh

ELECTRICITY PURCHASE

Out of EPS Group 1,492 GWh

NUMBER OF CUSTOMERS

Total 3,477,716

Guaranteed supply 3,446,386

Last resort supply 1,454

Commercial supply 29,876

GENERATION CAPACITIES

POWER PLANT	Net output capacity MW
TPP Nikola Tesla A	1,597
TPP Nikola Tesla B	1,220
TPP Kolubara	216
TPP Morava	108
TPP Kostolac A	281
TPP Kostolac B	632
THERMAL Power Plants	4,054
CHP Novi Sad	208
CHP Zrenjanin	100
CHP Sremska Mitrovica	28
COMBINED Heat and Power Plants	336
HPP Đerdap 1	1,099
HPP Đerdap 2	270
Vlasina HPPs	129
HPP Pirot	80
HPP Bajina Bašta	420
PSHPP Bajina Bašta	614
HPP Zvornik	103
HPP Elektromorava	18
HPP Potpeć	51
HPP Bistrica and HPP Kokin Brod	124
HPP Uvac	36
Mini HPPs	21
HYDRO Power Plants	2,965
EPS POWER PLANTS	7,355

ELECTRICITY GENERATION

POWER PLANT	GWh
TPP Nikola Tesla A	8,457
TPP Nikola Tesla B	7,750
TPP Kolubara	781
TPP Morava	390
TPP Kostolac A	2,063
TPP Kostolac B	4,799
THERMAL Power Plants	24,240
CHP Novi Sad	185
CHP Zrenjanin	0
CHP Sremska Mitrovica	0
COMBINED Heat and Power Plants	185
HPP Đerdap 1	4,904
HPP Đerdap 2	1,538
Vlasina HPPs	261
HPP Piroć	67
HPP Bajina Bašta	1,168
PSHPP Bajina Bašta	594
HPP Zvornik	368
HPP Elektromorava	62
HPP Potpeć	162
HPP Bistrica and HPP Kokin Brod	377
HPP Uvac	38
Mini HPPs	40
HYDRO Power Plants	9,579
TOTAL	34,004

ELECTRICITY SUPPLY

SALES CHARACTERISTICS

Supply type	Number of metering points	Number of customers	Electricity (GWh)
GUARANTEED	3,512,066	3,446,386	15,601
LV I Level	15,970	14,341	527
CS	3,494,103	3,431,256	15,026
LV II Level	255,336	218,354	1,214
Households	3,238,767	3,212,902	13,811
PL	1,993	789	48
LAST RESORT	2,969	1,454	187
HV	0	0	0
MV	70	49	33
LV	2,899	1,405	154
COMMERCIAL	114,317	29,876	11,911
HV	30	27	2,074
MV	4,065	2,537	6,249
LV	92,421	27,049	3,127
PL	17,801	263	461
TOTAL	3,629,352	3,477,716	27,699

LV - Low Voltage
MV - Middle Voltage
HV - High Voltage

CS - Consumer Spending
PL - Public Lighting

HOUSEHOLD CATEGORY

AVERAGE CONSUMPTION
per month

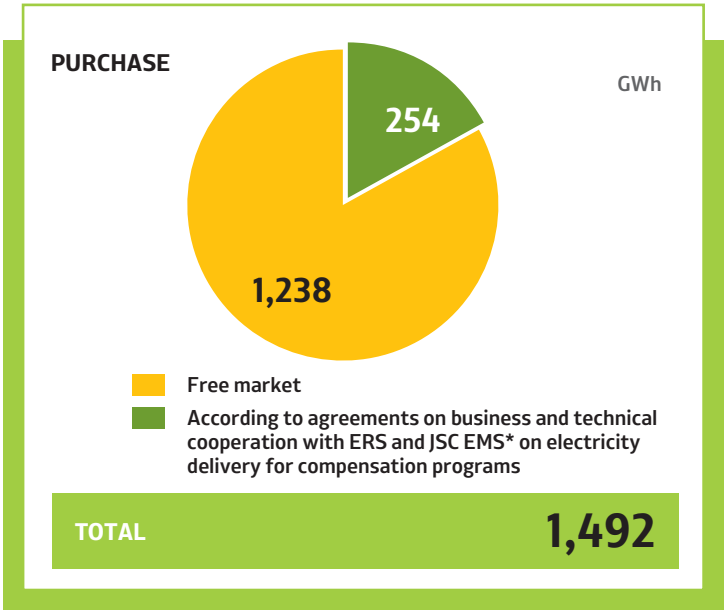
356 kWh

**NUMBER OF
METERING POINTS**

3,238,767

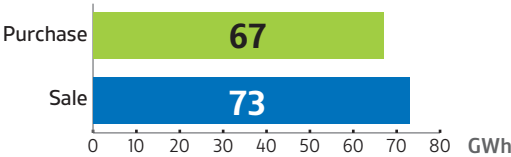
ELECTRICITY TRADE

Total scope of electricity trade in free wholesale market **3,106** GWh



*ERS - Electric Power Industry of the Republic of Srpska
JSC EMS - Elektromreža Srbije Joint Stock Company

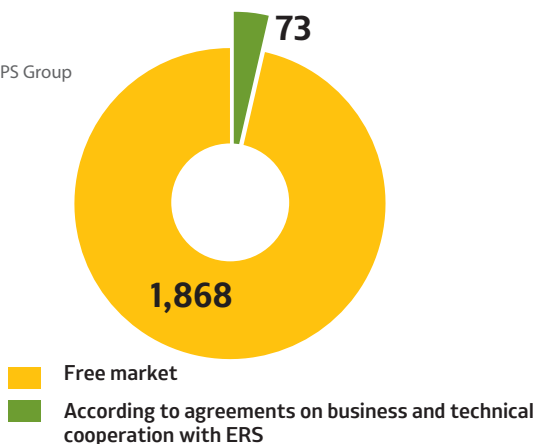
Cooperation with Electric Power Industry of the Republic of Srpska According to agreements on business and technical cooperation



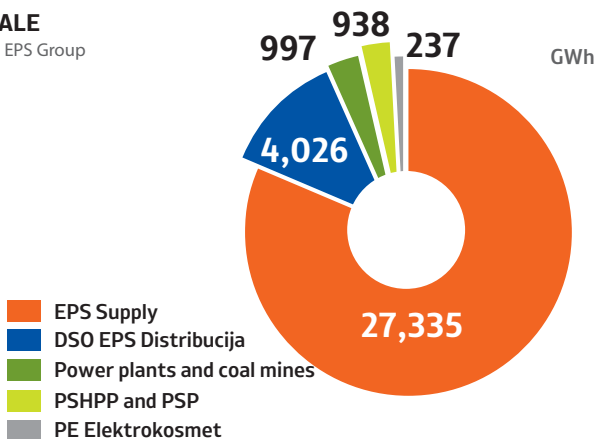
- Trading at BSP and CROPEX power exchanges, through the Company “EPS Trgovanje” started on 11 July 2017. Total trading volume at BSP amounted to 13 GWh and at CROPEX 3 GWh.
- Total sale at HUPX through the Company “EPS Trgovanje” amounted to 608 GWh and total purchase amounted to 70 GWh.
- Total sale at SEEPEX amounted to 101 GWh, and total purchase 105 GWh.

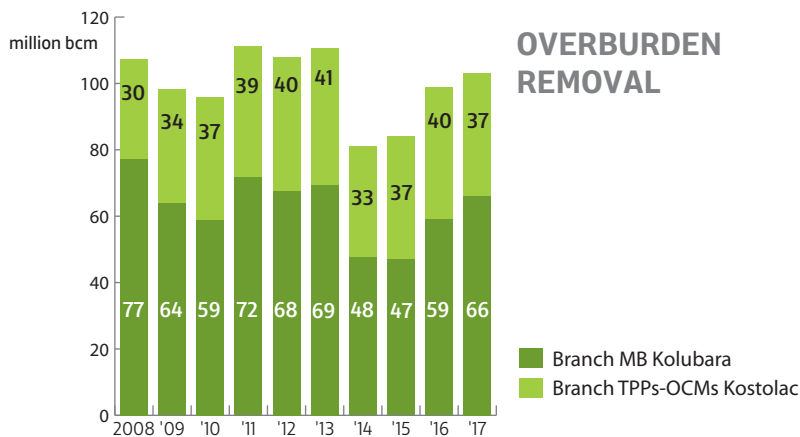
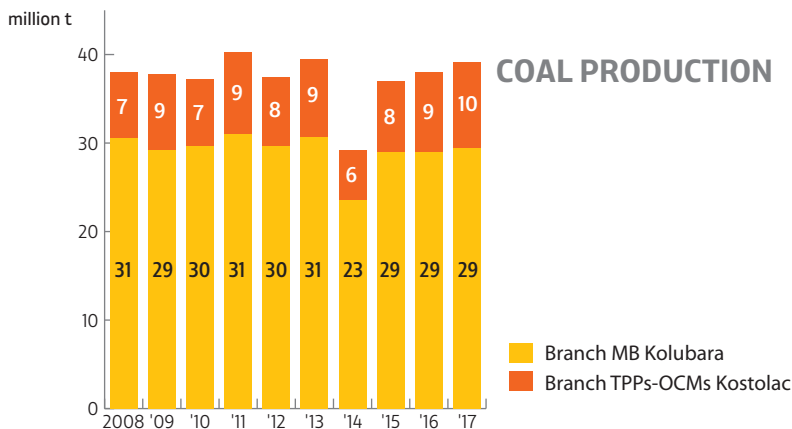
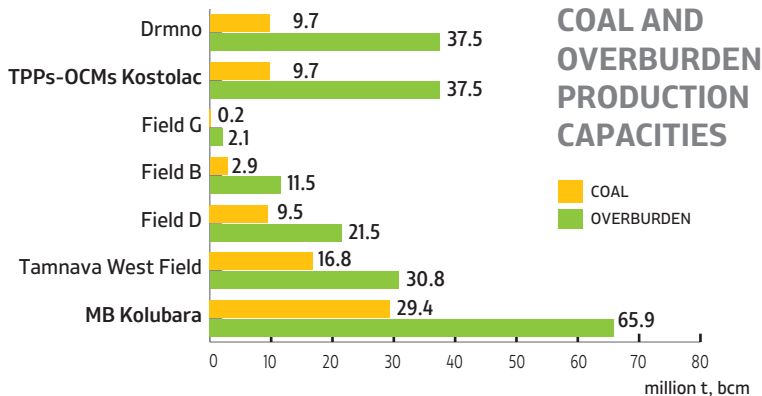
SALE

Out of EPS Group

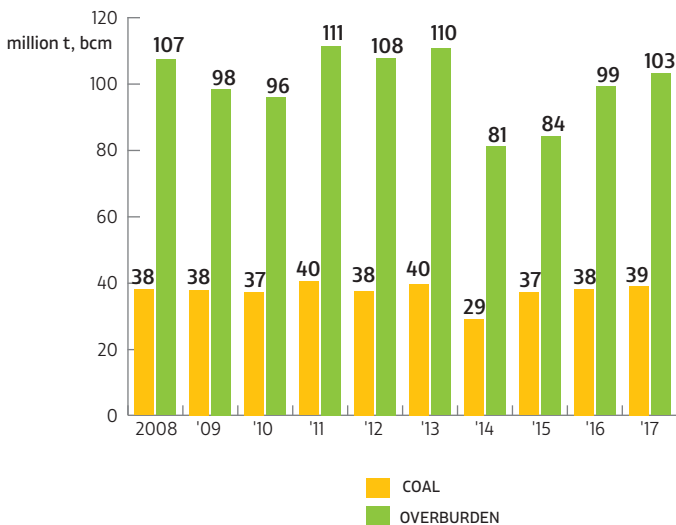
**TOTAL****1,941****SALE**

In EPS Group

**TOTAL****33,533**



TOTAL COAL AND OVERBURDEN OUTPUT



STRUCTURE OF SUPPLY OF THE PRODUCED COAL

(t)	MB Kolubara	TPPs-OCMs Kostolac	EPS
For TPPs	28,012,384	9,473,583	37,485,967
For drying	929,887	/	929,887
For industry	225,852	201,718	427,570
For heating plants	221,033	/	221,033
TOTAL	29,389,156	9,675,301	39,064,457

STATISTICAL DATA ON DISTRIBUTION GRID

Distribution areas	Number of substations	Installed capacity of substations (MVA)
Novi Sad	7,894	7,035
Beograd	5,397	7,124
Kraljevo	12,374	7,954
Niš	6,648	5,394
Kragujevac	2,845	2,345
TOTAL	35,158	29,852



- THE PERCENTAGE OF REALIZED LOSSES IN DISTRIBUTION NETWORK

12.92

- CONSTRUCTION/RECONSTRUCTION/RENOVATION OF TRANSFORMER STATIONS

2 to 110/x kV

2 to 35/10 kV

318 to 20 (10)/0.4 kV

- CONSTRUCTION OF CABLE LINES

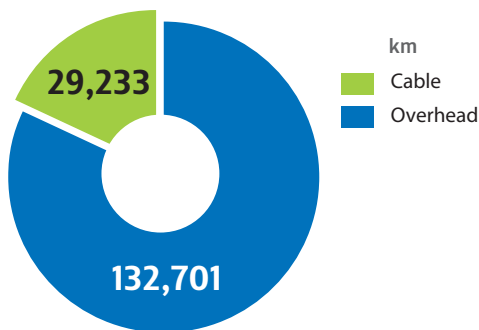
35 kV 25.37 km

20 kV 181.48 km

10 kV 305.19 km

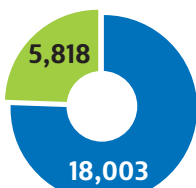
0.4 kV 702.29 km

STRUCTURE OF DISTRIBUTION LINES (owned by DSO EPS DISTRIBUCIJA)

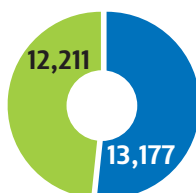


TOTAL 161,934 km

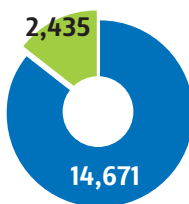
DISTRIBUTION AREAS



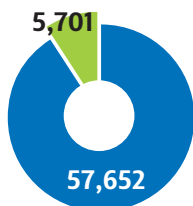
Novi Sad



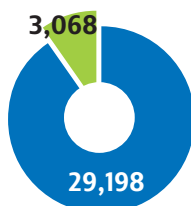
Beograd



Kragujevac



Kraljevo



Niš

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THANK YOU FOR ATTENTION