

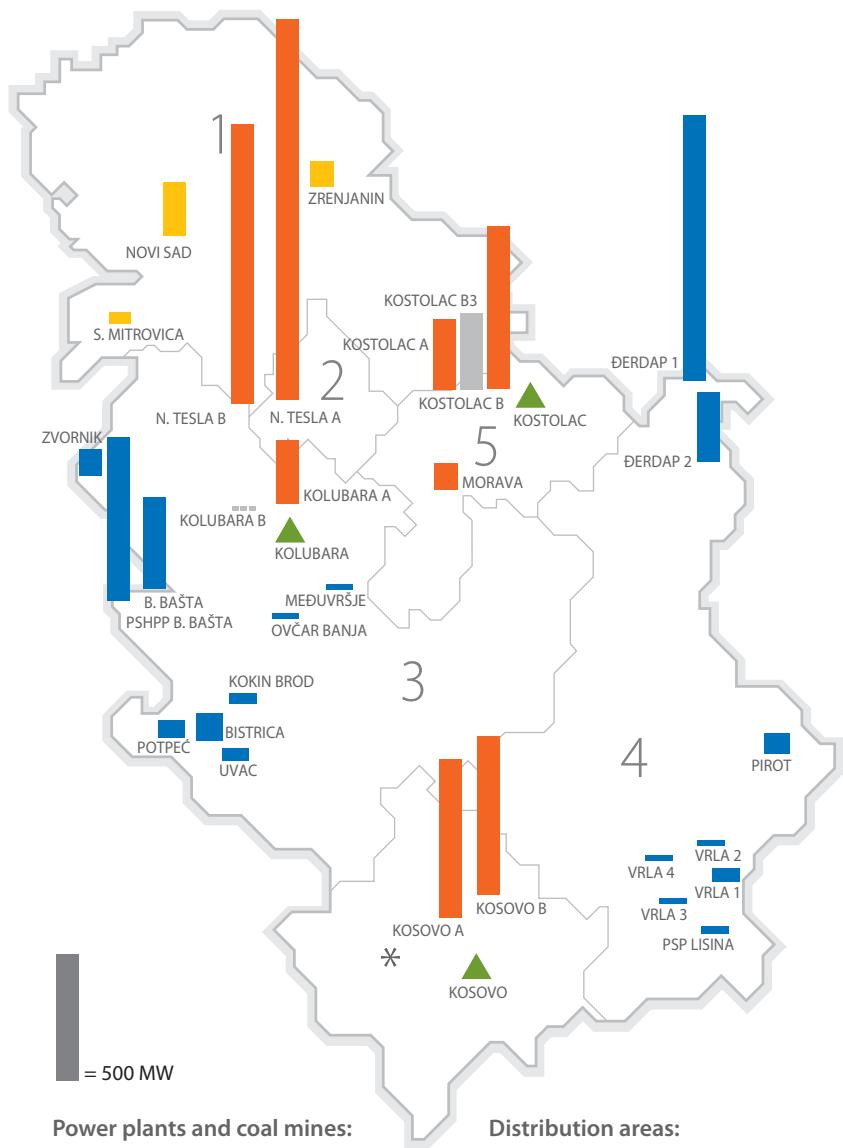
# ELECTRIC POWER INDUSTRY OF SERBIA



TECHNICAL REPORT

2020

# EPS INSTALLED CAPACITIES



## Power plants and coal mines:

- TPP
- TPP UNDER CONSTRUCTION
- TPP potentially place
- CHP
- HPP
- COAL MINE

## Distribution areas:

- 1\_Novi Sad
- 2\_Beograd
- 3\_Kraljevo
- 4\_Niš
- 5\_Kragujevac
- \*\_PE Elektrokosmet, Priština

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

# EPS 2020

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

<b>GENERATION CAPACITIES</b>	
Net output capacity	<u>7,391</u> MW
<b>ELECTRICITY GENERATION</b>	
	<u>34,009</u> GWh
<b>COAL PRODUCTION</b>	
	<u>39,087,541</u> t
<b>OVERBURDEN REMOVAL</b>	
	<u>107,190,691</u> bcm
<b>ELECTRICITY SALE</b>	
	<u>35,987</u> GWh
In EPS Group	<u>33,808</u> GWh
Out of EPS Group	<u>2,179</u> GWh
<b>ELECTRICITY PURCHASE</b>	
Out of EPS Group	<u>1,978</u> GWh
<b>NUMBER OF CUSTOMERS</b>	
Total	<u>3,499,362</u>
Guaranteed supply	<u>3,477,824</u>
Last resort supply	<u>23</u>
Commercial supply	<u>21,515</u>

## GENERATION CAPACITIES

POWER PLANT	Net output capacity MW
TPP Nikola Tesla A	1,622
TPP Nikola Tesla B	1,220
TPP Kolubara	216
TPP Morava	108
TPP Kostolac A	281
TPP Kostolac B	632
<b>THERMAL Power Plants</b>	<b>4,079</b>
CHP Novi Sad	208
CHP Zrenjanin	75
CHP Sremska Mitrovica	14
<b>COMBINED Heat and Power Plants</b>	<b>297</b>
HPP Đerdap 1	1,126
HPP Đerdap 2	270
Vlasina HPPs	129
HPP Pirot	80
HPP Bajina Bašta	420
PSHPP Bajina Bašta	614
HPP Zvornik	126
HPP Elektromorava	18
HPP Potpeć	51
HPP Bistrica and HPP Kokin Brod	124
HPP Uvac	36
Mini HPPs	21
<b>HYDRO Power Plants</b>	<b>3,015</b>
<b>EPS POWER PLANTS</b>	<b>7,391</b>

## ELECTRICITY GENERATION

POWER PLANT	GWh
TPP Nikola Tesla A	9,076
TPP Nikola Tesla B	7,961
TPP Kolubara	560
TPP Morava	492
TPP Kostolac A	1,671
TPP Kostolac B	4,572
<b>THERMAL Power Plants</b>	<b>24,332</b>
CHP Novi Sad	192
CHP Zrenjanin	0
CHP Sremska Mitrovica	0
<b>COMBINED Heat and Power Plants</b>	<b>192</b>
HPP Đerdap 1	4,836
HPP Đerdap 2	1,552
Vlasina HPPs	254
HPP Pirot	50
HPP Bajina Bašta + SPP Brana Lazići	1,154
PSHPP Bajina Bašta	714
HPP Zvornik	389
HPP Elektromorava	48
HPP Potpeć	147
HPP Bistrica and HPP Kokin Brod	277
HPP Uvac	46
Mini HPPs	18
<b>HYDRO Power Plants</b>	<b>9,485</b>
<b>TOTAL</b>	<b>34,009</b>

## ELECTRICITY SUPPLY

### SALES CHARACTERISTICS

Supply type	Number of metering points	Number of customers	Electricity (GWh)
<b>GUARANTEED</b>	<b>3,546,340</b>	<b>3,477,824</b>	<b>14,935.13</b>
LV I Level	13,131	11,307	231.17
CS	3,532,503	3,465,889	14,691.37
LV II Level	253,889	223,193	990.74
Households	3,278,614	3,242,696	13,700.63
PL	706	628	12.59
<b>LAST RESORT</b>	<b>208</b>	<b>23</b>	<b>66.80</b>
HV	1	1	12.40
MV and LV	207	22	54.40
<b>COMMERCIAL</b>	<b>133,653</b>	<b>21,515</b>	<b>12,702.40</b>
HV	35	33	2,094.10
MV and LV	111,954	21,218	10,141.90
PL	21,664	264	466.40
<b>TOTAL</b>	<b>3,680,201</b>	<b>3,499,362</b>	<b>27,704.33</b>

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

CS - Consumer Spending  
 PL - Public Lighting

### HOUSEHOLD CATEGORY

**AVERAGE CONSUMPTION**  
 per month

**349** kWh

**NUMBER OF  
 METERING POINTS**

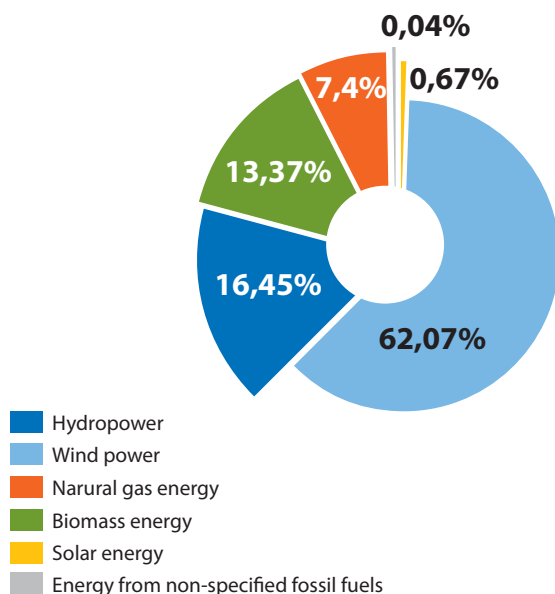
**3,278,614**

## RES FEED-IN TARIFF ELECTRICITY GENERATION

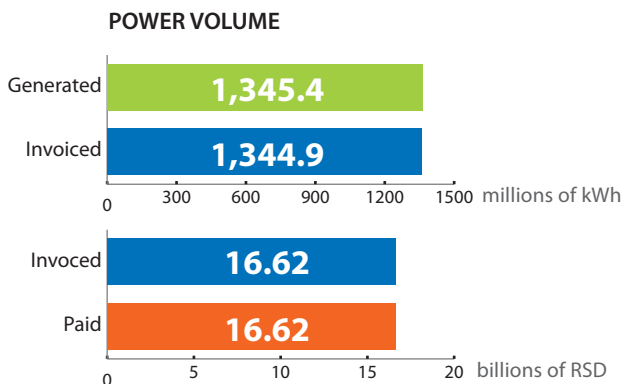
### Feed-in tariff electricity volumes

PRIMARY ELECTRICITY SOURCES	(MWh)
Solar energy	9,043.33
Wind power	835,168.34
Hydropower	221,282.82
Geothermal energy	0
Biomass energy	179,897.16
Energy from non-specified renewable energy sources	0
Hard coal energy	0
Lignite and bituminous coal energy	0
Natural gas energy	99,480.81
Energy from petroleum and petroleum products	0
Energy from non-specified fossil fuels	581.66
Nuclear power	0
<b>TOTAL</b>	<b>1,345,454.12</b>

### Structure of feed-in tariff electricity generation



## PURCHASE OF ELECTRICITY FROM RES BY PRIVILEGED PRODUCERS



**239**

Number of producers

**313**

Number of power plants

Fees for privileged electricity producers

**0.093**  
RSD/ kWh

### Collected and disbursed funds for incentives for privileged producers

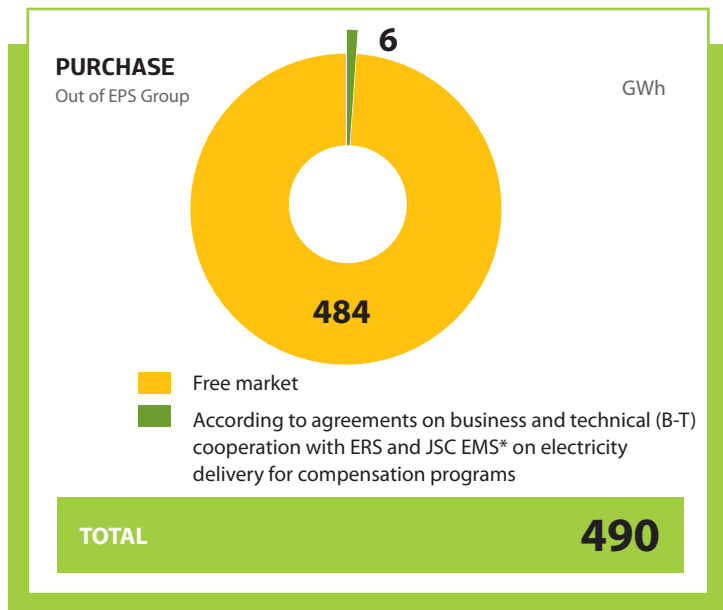
INVOICED AND COLLECTED INCENTIVE FEES	Invoiced	Collected
	(excluding VAT, in billion RSD)	
Guaranteed supplier for end customers	1.39	1.36
Suppliers for end customers	1.35	1.32
Distribution / Transmission system operator for end customers	0.011	0.011
<b>TOTAL</b>	<b>2.75</b>	<b>2.69</b>



## ELECTRICITY TRADE

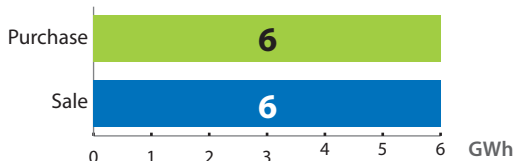
Total scope of electricity trade in  
free wholesale market


**2,639** 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



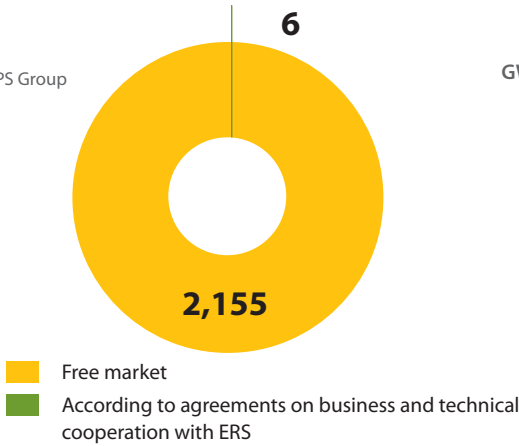
 Total sale at SEEPEX amounted to 411 GWh, while total purchase amounted to 141 GWh. Sales via EPS Trgovanje at the markets in Hungary (HUPX), Croatia (CROPEX) and Slovenia (BSP Southpool) amounted to 801 GWh, while total purchase at those markets amounted to 13 GWh.



### SALE

Out of EPS Group

GWh



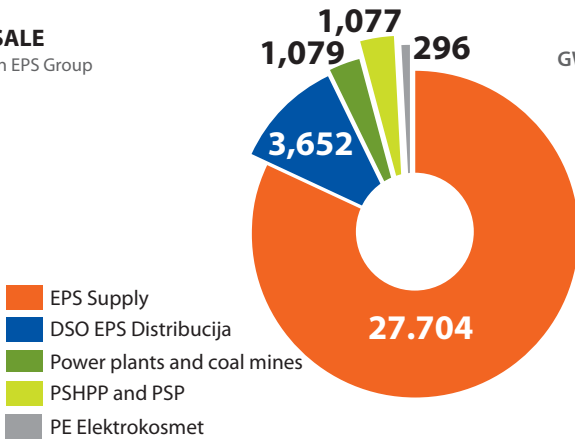
TOTAL

2,161

### SALE

In EPS Group

GWh



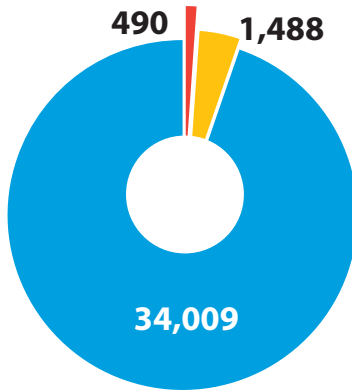
TOTAL

33,808

# ENERGY PORTFOLIO REALIZATION BALANCE RESPONSIBLE PARTY PE EPS

## AVAILABLE ELECTRICITY

GWh



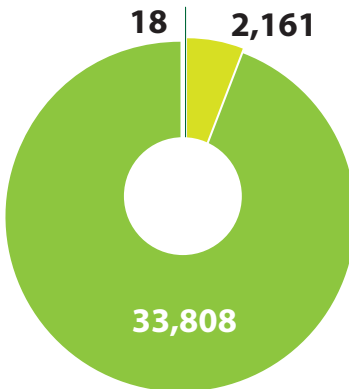
- PE EPS Generation
- Purchasing outside EPS Group - wholesale market and agreements on B-T cooperation
- Purchasing from privileged and other producers outside EPS Group

**TOTAL AVAILABLE ELECTRICITY**

**35,987**

## ELECTRICITY DELIVERED

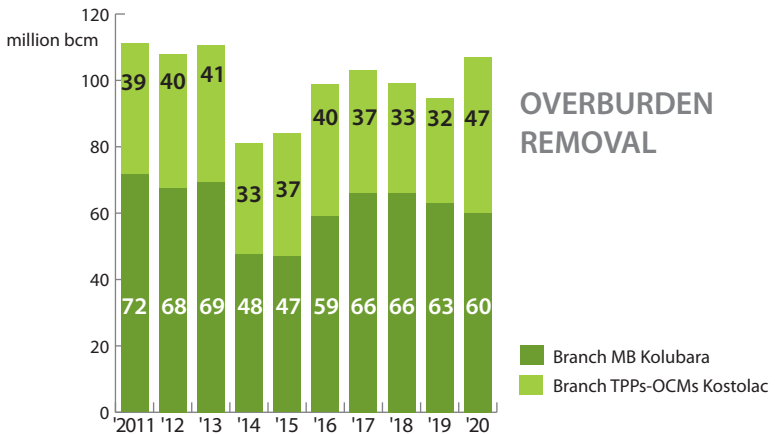
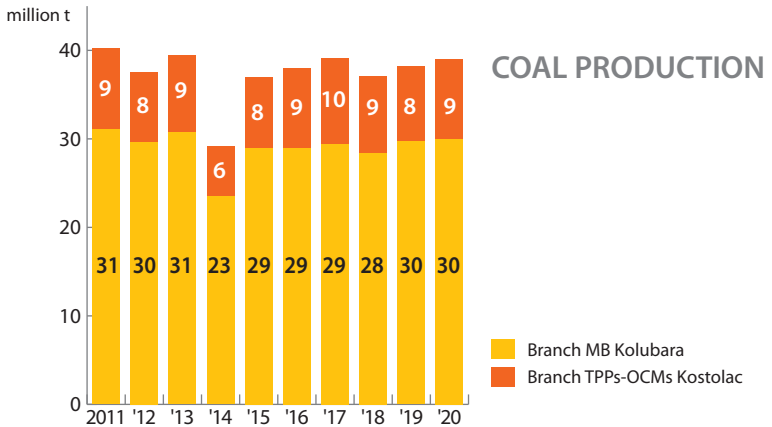
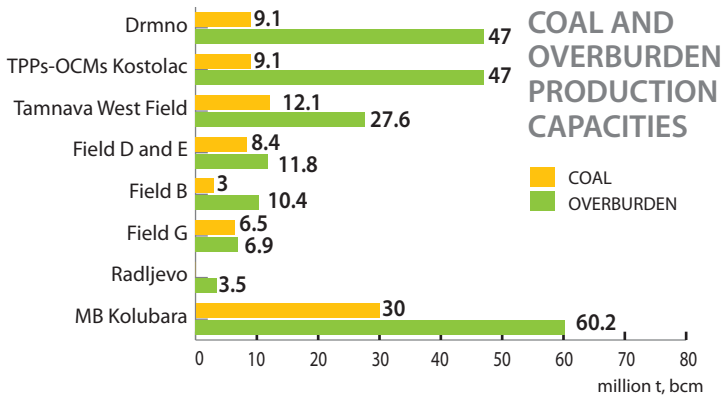
GWh



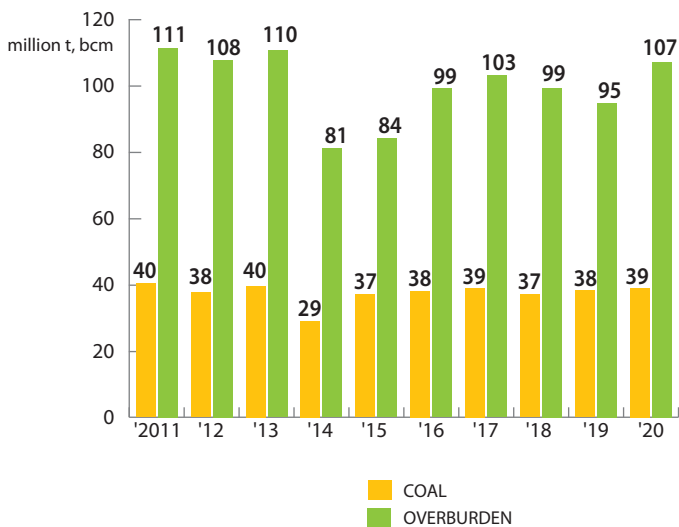
- Sale within EPS Group
- Sale on the Serbian balance market
- Sale outside EPS Group - wholesale market and agreements on B-T cooperation

**TOTAL ELECTRICITY DELIVERED**

**35,987**



## TOTAL COAL AND OVERBURDEN OUTPUT



## STRUCTURE OF SUPPLY OF THE PRODUCED COAL

(t)	MB Kolubara	TPPs-OCMs Kostolac	EPS
For TPPs	29,007,043	8,870,192	37,877,235
For drying	684,302	/	684,302
For industry	117,649	193,792	311,441
For heating plants	214,563	/	214,563
<b>TOTAL</b>	<b>30,023,557</b>	<b>9,063,984</b>	<b>39,087,541</b>

# ELECTRIC POWER INDUSTRY OF SERBIA

