

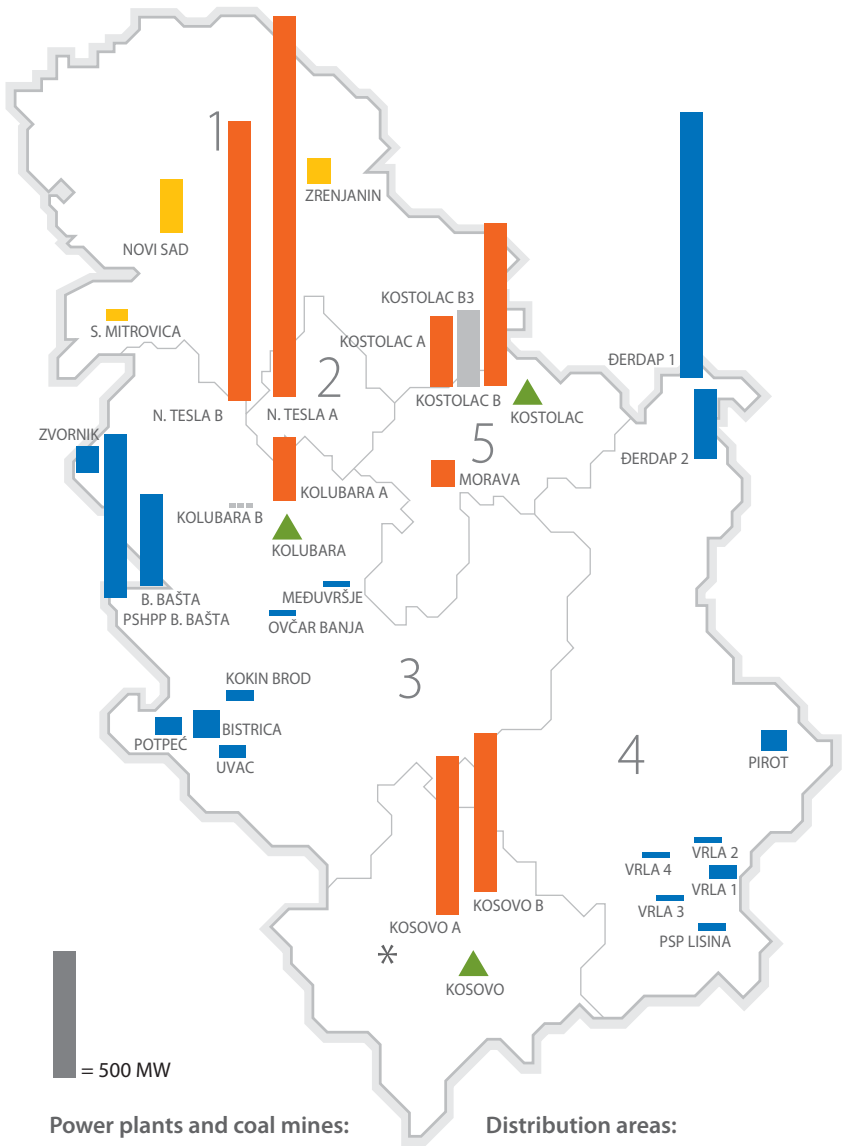
# ELECTRIC POWER INDUSTRY OF SERBIA



TECHNICAL REPORT

2021

# EPS INSTALLED CAPACITIES



## Power plants and coal mines:

- TPP
- TPP UNDER CONSTRUCTION
- 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 2021

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

**GENERATION CAPACITIES**  
Net output capacity 7,391 MW

**ELECTRICITY GENERATION**  
33,834 GWh

**COAL PRODUCTION**  
35,933,752 t

**OVERBURDEN REMOVAL**  
106,374,695 bcm

**ELECTRICITY SALE**  
36,962 GWh

In EPS Group 31,239 GWh

Out of EPS Group 5,723 GWh

**ELECTRICITY PURCHASE**  
Out of EPS Group 1,422 GWh

**NUMBER OF CUSTOMERS**  
Total 3,423,882

Guaranteed supply 3,397,139

Last resort supply 2,802

Commercial supply 23,941

## 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	8,755
TPP Nikola Tesla B	5,563
TPP Kolubara	681
TPP Morava	311
TPP Kostolac A	1,907
TPP Kostolac B	4,320
<b>THERMAL Power Plants</b>	<b>21,537</b>
CHP Novi Sad	630
CHP Zrenjanin	0
CHP Sremska Mitrovica	0
<b>COMBINED Heat and Power Plants</b>	<b>630</b>
HPP Đerdap 1	5,379
HPP Đerdap 2	1,598
Vlasina HPPs	441
HPP Pirot	156
HPP Bajina Bašta + SPP Brana Lazići	1,859
PSHPP Bajina Bašta	699
HPP Zvornik	593
HPP Elektromorava	64
HPP Potpeć	226
HPP Bistrica and HPP Kokin Brod	560
HPP Uvac	77
Mini HPPs	15
<b>HYDRO Power Plants</b>	<b>11,667</b>
<b>TOTAL</b>	<b>33,834</b>

## ELECTRICITY SUPPLY

### SALES CHARACTERISTICS

Supply type	Number of metering points	Number of customers	Electricity (GWh)
<b>GUARANTEED</b>	<b>3,581,119</b>	<b>3,397,139</b>	<b>15,202.88</b>
LV I Level	12,924	11,765	261.45
CS	3,567,293	3,384,712	14,929.90
LV II Level	251,853	212,202	1,077.96
Households	3,315,440	3,172,510	13,851.94
PL	902	662	11.53
<b>LAST RESORT</b>	<b>14,802</b>	<b>2,802</b>	<b>215.90</b>
HV	4	4	14.80
MV and LV	14,798	2,798	201.10
<b>COMMERCIAL</b>	<b>152,932</b>	<b>23,941</b>	<b>13,698.07</b>
HV	39	36	2,322.04
MV and LV	130,527	23,603	10,915.10
PL	22,366	302	460.93
<b>TOTAL</b>	<b>3,748,853</b>	<b>3,423,882</b>	<b>29,116.85</b>

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

CS - Consumer Spending  
 PL - Public Lighting

### HOUSEHOLD CATEGORY

**AVERAGE CONSUMPTION**  
 per month

**351** kWh

**NUMBER OF  
 METERING POINTS**

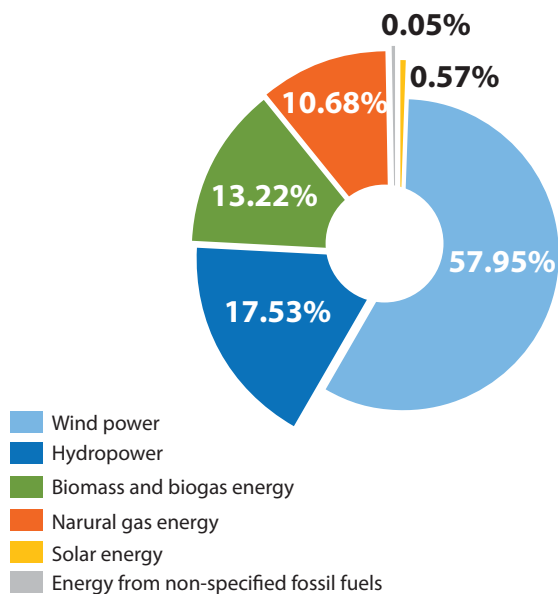
**3,315,440**

## RES FEED-IN TARIFF ELECTRICITY GENERATION

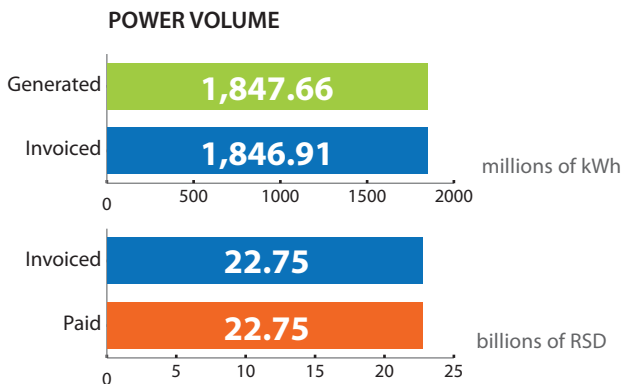
### Feed-in tariff electricity volumes

PRIMARY ELECTRICITY SOURCES	(MWh)
Solar energy	10,494.02
Wind power	1,070,730.61
Hydropower	323,941.17
Geothermal energy	0
Biomass and biogas energy	244,142.56
Energy from non-specified renewable energy sources	0
Hard coal energy	0
Lignite and bituminous coal energy	0
Natural gas energy	197,335.82
Energy from petroleum and petroleum products	0
Energy from non-specified fossil fuels	1,013.56
Nuclear power	0
<b>TOTAL</b>	<b>1,847,657.74</b>

### Structure of feed-in tariff electricity generation



## PURCHASE OF ELECTRICITY FROM RES BY PRIVILEGED PRODUCERS



**265**

Number of producers

**338**

Number of power plants

Fees for privileged electricity producers

**0.437**  
RSD/ kWh

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

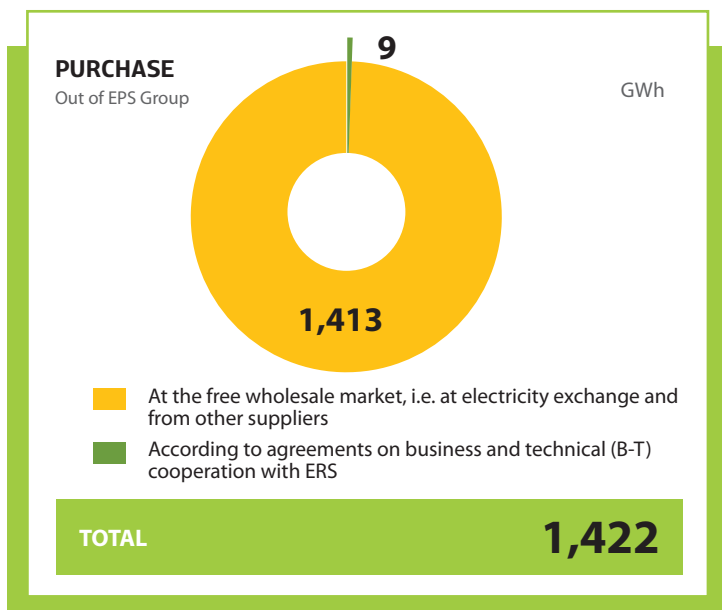
INVOICED AND COLLECTED INCENTIVE FEES	Фактурисано	Прикупљено
	(без ПДВ, у милијардама динара)	
Guaranteed supplier for end customers	6.63	6.50
Suppliers for end customers	6.84	6.70
Distribution / Transmission system operator for end customers	0.05	0.05
<b>TOTAL</b>	<b>13.52</b>	<b>13.25</b>



## ELECTRICITY TRADE

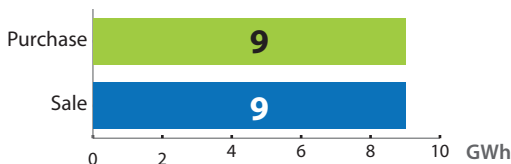
Total scope of electricity trade in  
free wholesale market

**7,127** GWh

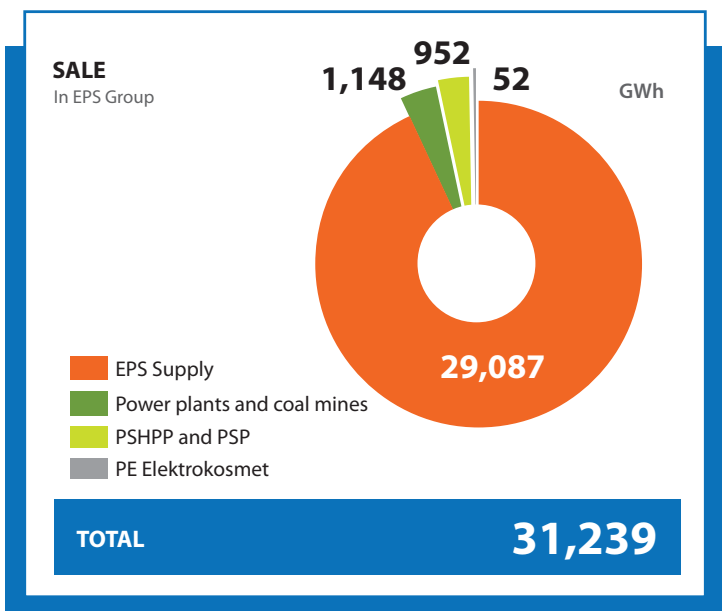
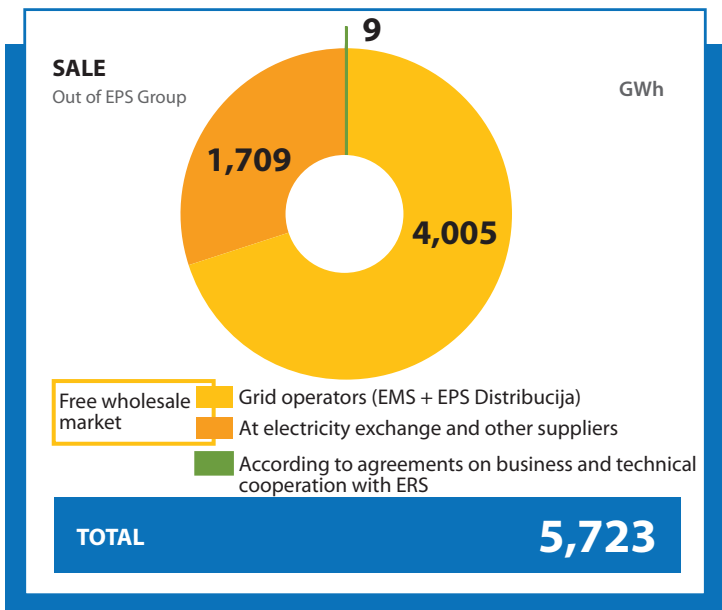


\*ERS - Electric Power Industry of the Republic of Srpska

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



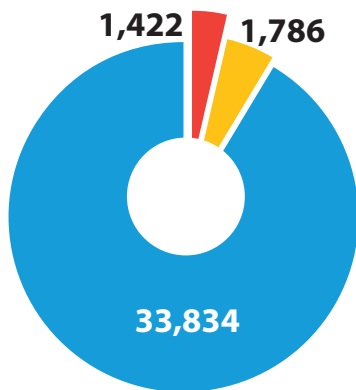
- ▲ Total sale at SEEPEX amounted to 420 GWh, while total purchase amounted to 148 GWh. Sales via EPS Trgovanje at the markets in Hungary (HUPX), Croatia (CROPEX) and Slovenia (BSP Southpool) amounted to 654 GWh, while total purchase at those markets amounted to 59 GWh.
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# ENERGY PORTFOLIO REALIZATION BALANCE RESPONSIBLE PARTY PE EPS

## AVAILABLE ELECTRICITY

GWh



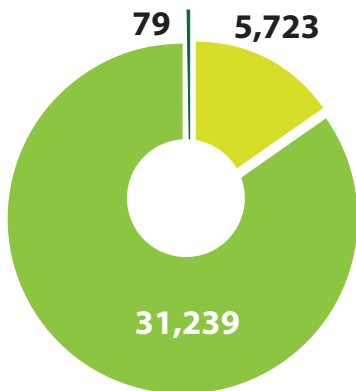
- PE EPS Generation
- Purchasing outside EPS Group - wholesale market and agreements on B-T cooperation
- Purchasing from privileged and other producers outside EPS Group

TOTAL AVAILABLE ELECTRICITY

**37,041**

## ELECTRICITY DELIVERED

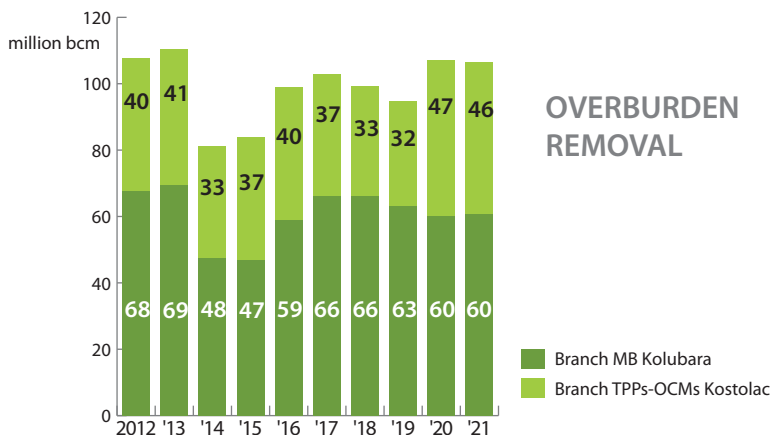
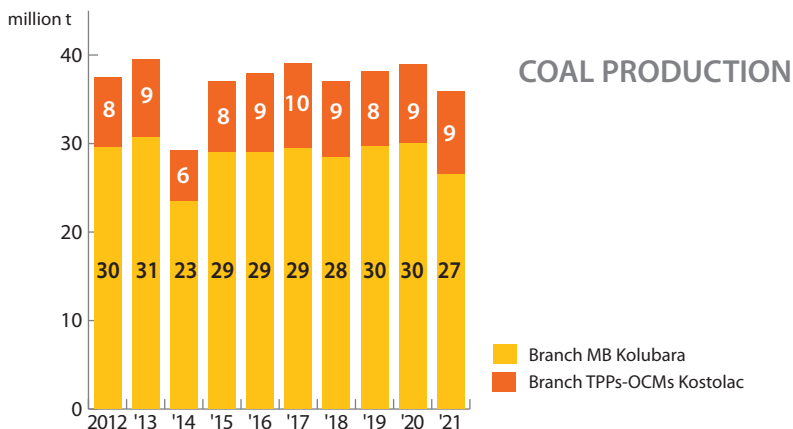
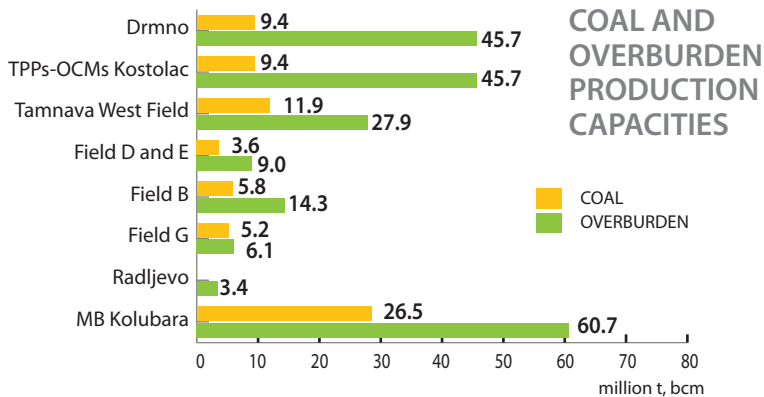
GWh



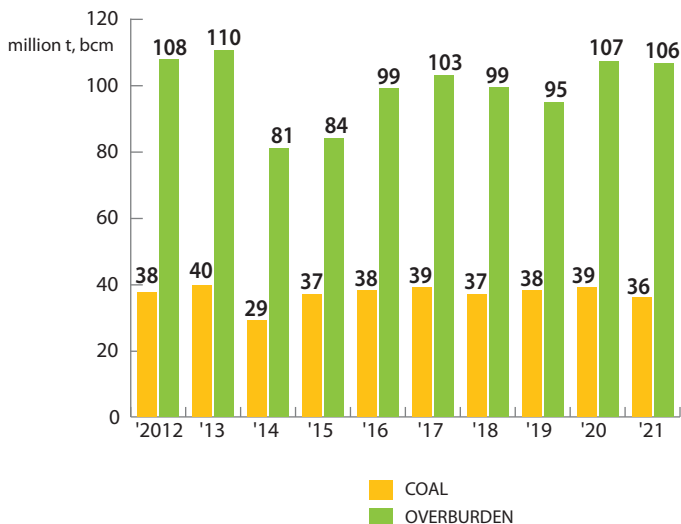
- Sale within EPS Group
- Sale on the Serbian balance market
- Sale outside EPS Group - wholesale market and agreements on B-T cooperation

TOTAL ELECTRICITY DELIVERED

**37,041**



## TOTAL COAL AND OVERBURDEN OUTPUT



## STRUCTURE OF SUPPLY OF THE PRODUCED COAL

(t)	MB Kolubara	TPPs-OCMs Kostolac	EPS
For TPPs	25,637,338	9,176,386	34,813,724
For drying	554,679	/	554,679
For industry	109,029	217,053	326,082
For heating plants	239,267	/	239,267
<b>TOTAL</b>	<b>26,540,313</b>	<b>9,393,439</b>	<b>35,933,752</b>

## OVERBURDEN

**TOTAL 106,374,695**

# ELECTRIC POWER INDUSTRY OF SERBIA

