

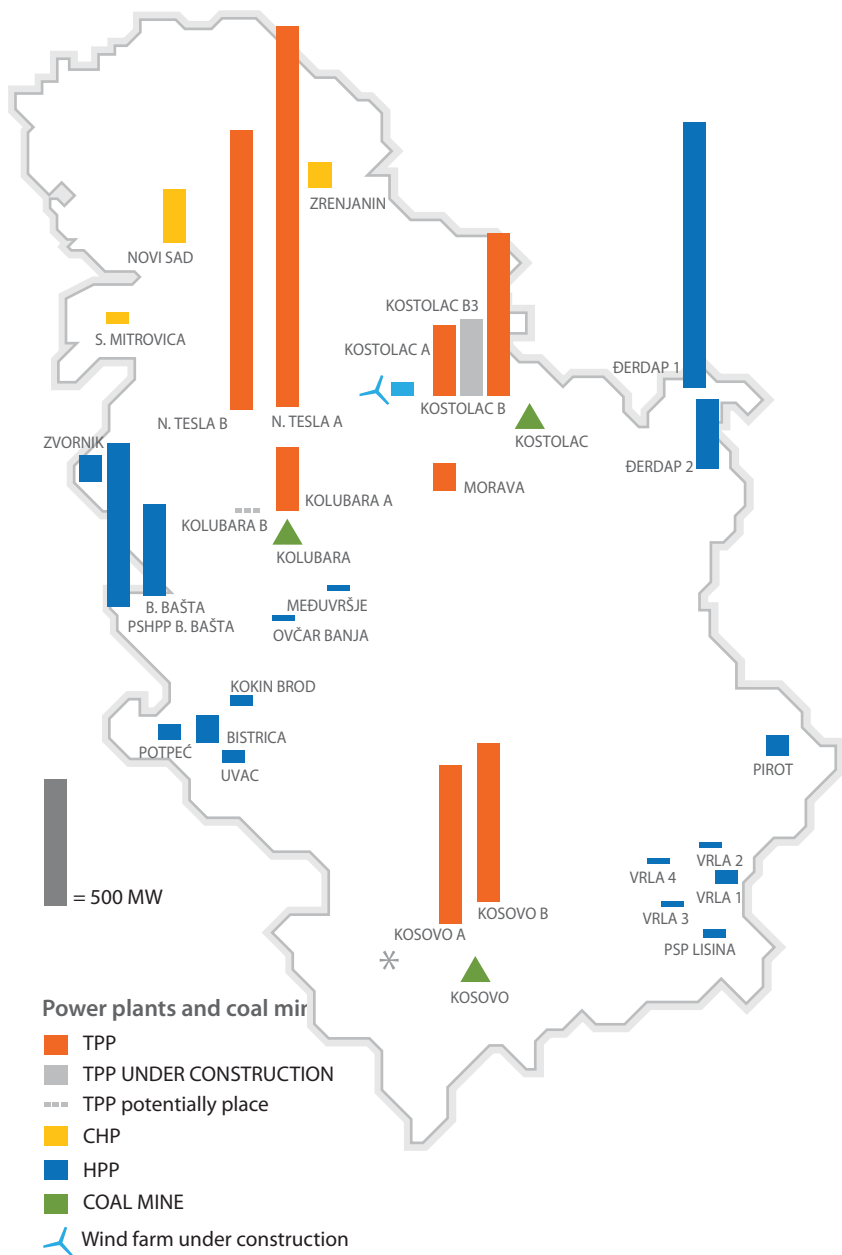
# ELECTRIC POWER INDUSTRY OF SERBIA

**ENC**



**TECHNICAL REPORT**

# EPS INSTALLED CAPACITIES



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

# EPS 2023

Data related to capacities managed by  
Electric Power Industry of Serbia

## GENERATION CAPACITIES

Net output capacity

**7,405** MW

## ELECTRICITY GENERATION

**31,720** GWh

## COAL PRODUCTION

**31,440,875** t

## OVERBURDEN REMOVAL

**103,937,756** bcm

## ELECTRICITY SALE

Consumption in the Republic of Serbia  
supplied by EPS

**35,543** GWh

Power Exchange/other suppliers/ contracts  
on business & technical cooperation

**1.658** GWh

## ELECTRICITY PURCHASE

Power Exchange/other suppliers/ contracts  
on business & technical cooperation

**729** GWh

## NUMBER OF CUSTOMERS

Total

**3,452,152**

Guaranteed supply

**3,415,818**

Last resort supply

**73**

Commercial supply

**36,261**

## 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	1,140
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>3,029</b>
<b>EPS POWER PLANTS</b>	<b>7,405</b>

## ELECTRICITY GENERATION

POWER PLANT	GWh
TPP Nikola Tesla A	7,150
TPP Nikola Tesla B	7,461
TPP Kolubara	225
TPP Morava	356
TPP Kostolac A	1,898
TPP Kostolac B	4,445
<b>THERMAL Power Plants</b>	<b>21,535</b>
CHP Novi Sad	484
CHP Zrenjanin	42
CHP Sremska Mitrovica	0
<b>COMBINED Heat and Power Plants</b>	<b>526</b>
HPP Đerdap 1	6,388
HPP Đerdap 2	1,711
Vlasina HPPs	389
HPP Pirot	91
HPP Bajina Bašta + SPP Brana Lazići	1,922
PSHPP Bajina Bašta	635
HPP Zvornik	619
HPP Elektromorava	79
HPP Potpeć	248
HPP Bistrica and HPP Kokin Brod	441
HPP Uvac	81
Mini HPPs	55
<b>HYDRO Power Plants</b>	<b>12,659</b>
<b>TOTAL</b>	<b>34,720</b>

## ELECTRICITY SUPPLY

### SALES CHARACTERISTICS

Supply type	Number of metering points	Number of customers	Electricity (GWh)
<b>GUARANTEED</b>	<b>3,619,280</b>	<b>3,415,818</b>	<b>14,093.37</b>
LV I Level	11,032		180.91
CS	3,607,989		13,908.83
LV II Level	230,055		976.05
Households	3,377,934		12,932.77
PL	259		3.63
<b>LAST RESORT</b>	<b>869</b>	<b>73</b>	<b>32.77</b>
HV	-		-
MV and LV	869		32.77
<b>COMMERCIAL</b>	<b>179,532</b>	<b>36,261</b>	<b>18,218.48</b>
HV	39		2,837.61
MV and LV	156,784		14,991.59
PL	22,709		389.28
<b>TOTAL</b>	<b>3,757,358</b>	<b>3,452,152</b>	<b>32,344.62</b>

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

CS - Consumer Spending  
PL - Public Lighting

Power delivered to customers through the GreenEPS Contracts (100% from renewable sources)

**1,852.5** GWh

PROSUMERS	Number of metering points	Number of customers	Electricity (GWh)
	694	668	
	Power taken over from prosumers		59.11
	Power delivered by prosumers		12.89
	<b>DIFFERENCE</b>		<b>46.22</b>

### HOUSEHOLD CATEGORY

**AVERAGE CONSUMPTION**  
per month

**323** kWh

**NUMBER OF METERING POINTS**

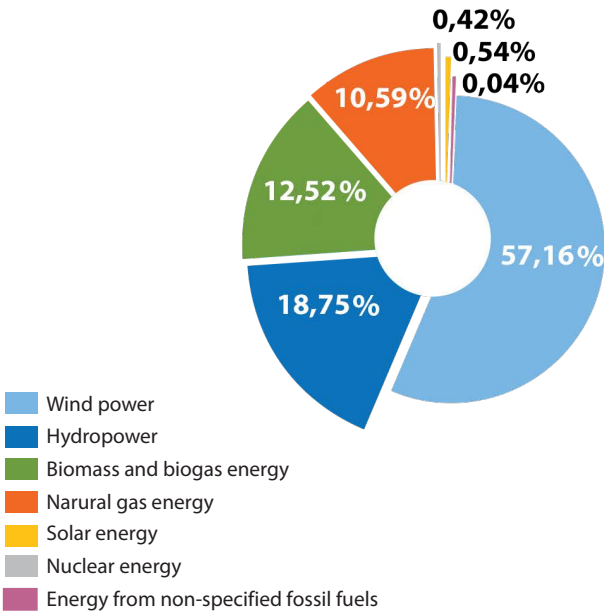
**3,799,681**

# RES FEED-IN TARIFF ELECTRICITY GENERATION

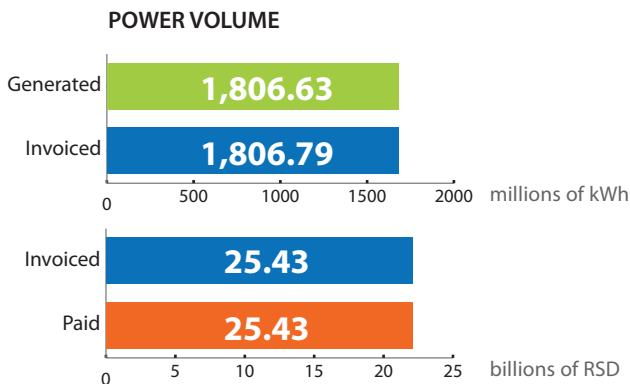
## Feed-in tariff electricity volumes

PRIMARY ELECTRICITY SOURCES	(MWh)
Solar energy	9,671.32
Wind power	1,032,695.84
Hydropower	338,827.46
Geothermal energy	0
Biomass and biogas energy	226,172.62
Energy from non-specified renewable energy sources	0
Hard coal energy	0
Lignite and bituminous coal energy	0
Natural gas energy	191,405.11
Energy from petroleum and petroleum products	0
Energy from non-specified fossil fuels	331.04
Nuclear power	0
Nuclear power	0
<b>TOTAL</b>	<b>1,806,631.76</b>

## Structure of feed-in tariff electricity generation



## PURCHASE OF ELECTRICITY FROM RES BY PRIVILEGED PRODUCERS



**242**

Number of producers

**309**

Number of power plants

**Fees for privileged electricity producers**

**0.801**  
RSD/ kWh

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

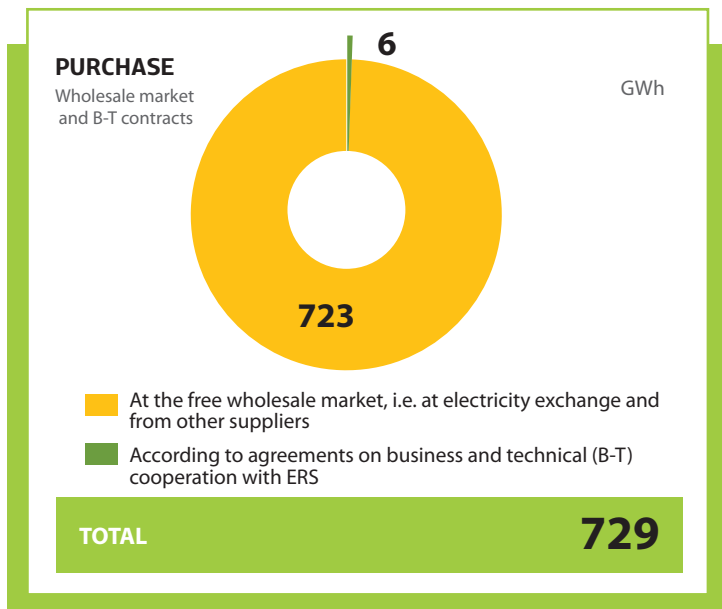
INVOICED AND COLLECTED INCENTIVE FEES	Invoiced	Collected
	(excluding VAT, in billion RSD)	
Guaranteed supplier for end customers	11.29	11.07
Suppliers for end customers	13.10	12.84
Distribution / Transmission system operator for end customers	0.04	0.04
<b>TOTAL</b>	<b>24.43</b>	<b>23.94</b>



## ELECTRICITY TRADE

Total scope of electricity trade in  
free wholesale market

**6,589** 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



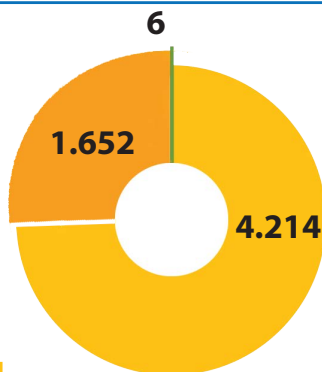
- ▲ Total sale at SEEPEX amounted to 28 GWh, while total purchase amounted to 795 GWh. Sales via EPS Trgovanje at the markets in Hungary (HUPX), Croatia (CROPEX) and Slovenia (BSP Southpool) amounted to 32 GWh, while total purchase at those markets amounted to 232 GWh.



### SALE

Wholesale market  
and B-T contracts

GWh



On the free  
wholesale  
market

- To the Network Operators (EMS and EPS Distribucija)
- On power exchange and to other suppliers
- According to the contracts on business and technical cooperation with ERS

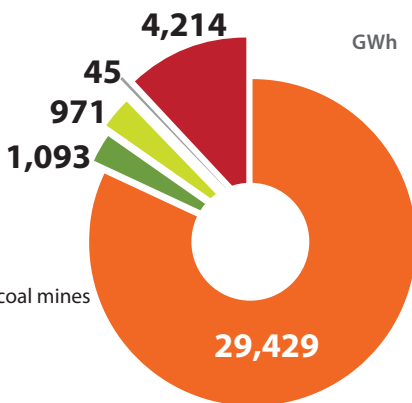
**TOTAL**

**5,872**

### SALE

In EPS Group

GWh



- End customers
- Power plants and coal mines
- PSHPP and PSP
- PE Elektrokosmet
- Network Operators

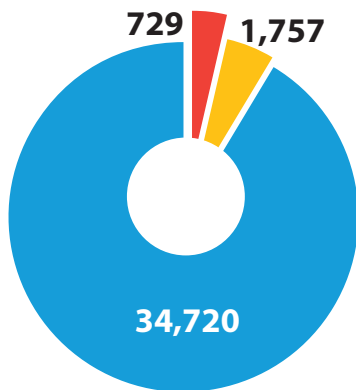
**TOTAL**

**35,543**

# ENERGY PORTFOLIO REALIZATION BALANCE RESPONSIBLE PARTY EPS

## AVAILABLE ELECTRICITY

GWh



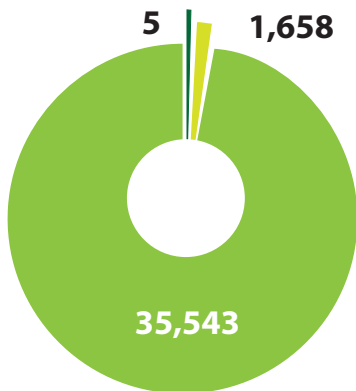
- EPS Generation
- Purchasing - wholesale market and agreements on B-T cooperation
- Purchasing from privileged and other producers outside EPS

TOTAL AVAILABLE ELECTRICITY

**37,206**

## ELECTRICITY DELIVERED

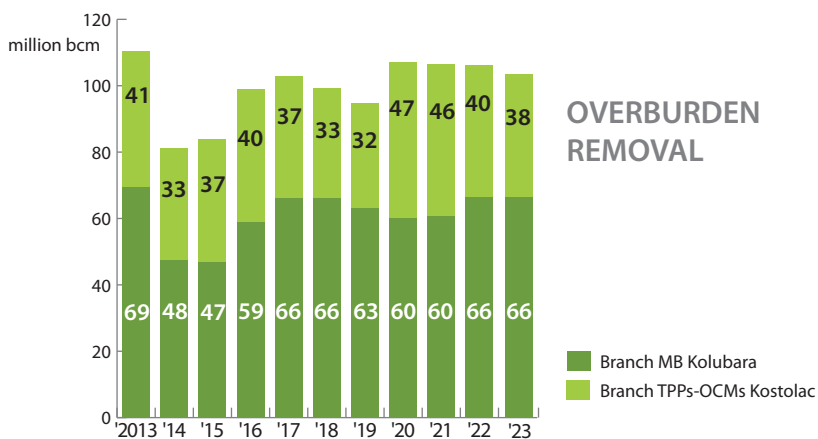
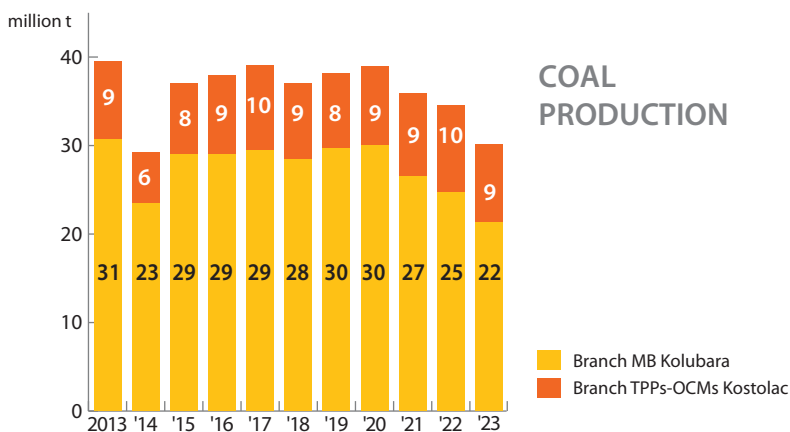
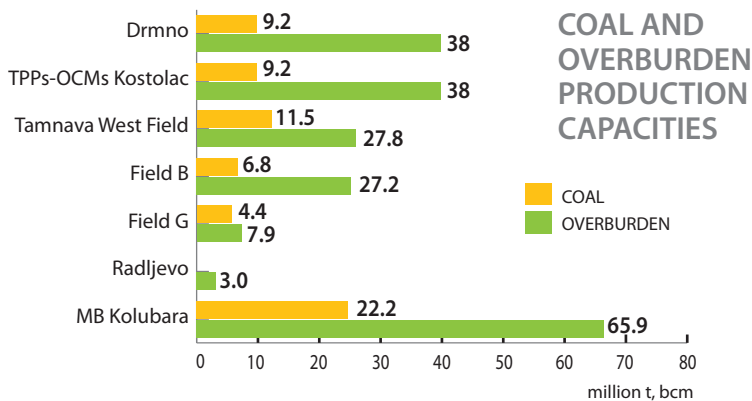
GWh



- Consumption in the Republic of Serbia supplied by EPS
- Net sale on balance market of the Republic of Serbia
- Sale - exchanges, other suppliers and contracts on business and technical cooperation

TOTAL ELECTRICITY DELIVERED

**37,206**





# ELECTRIC POWER INDUSTRY OF SERBIA

