



## ELEKTROZAPAD DOO

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### ELEKTROZAPAD DOO PORTFOLIO

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Elektrozapad Company is founded in 2015 in Belgrade and operates within the field of electric power engineering. The company's operations encompass all phases of project realization, including design and implementation, ensuring solutions that meet the strictest international standards. It specializes in the design and construction of power facilities, engineering services within these facilities, power supply systems provision, and manufacturing cabinets and equipment for the electric power sector.

The company is divided into five sectors, which represent its primary market orientations:

1. Construction of power facilities
2. Engineering in power facilities
3. Power supply systems
4. Commercial and industrial facilities
5. Production

At the core of the company is a team of engineers with extensive experience, specialists in their fields, who have collectively executed major projects such as transformer stations, hydroelectric plants, thermal power plants, and transmission lines, both domestically and internationally. Their expertise and rich experience form the foundation of our capability to deliver the most efficient and reliable solutions in this field.

Our vision is to become a leader in the electric power engineering sector, recognized for innovation, exceptionally high quality standards, and flawless project execution. We aim to continuously advance the electric power industry through technological innovations and efficient solutions, providing our clients with the highest level of services. Our focus is on continually enhancing the expertise of our team and expanding our market presence, enabling us to meet all demands and maintain our reputation as a dependable and expert partner.

## Construction of power facilities

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- Dismantling and erection of MV facilities
- Dismantling and erection of primary and secondary equipment in facilities from 110 kV up to 400 kV
- Design of complete electrical part of MV and HV substations
- Design of 110 kV, 220 kV and 400 kV bays for reconstructions
- Detail design of the relay protection schemes for reconstruction of HV facilities
- Consulting and supervision of the electrical works during construction of HV facilities

## Engineering in power facilities

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- Development of configurations and parameterization of relay protection for MV and HV facilities
- Functional testing and commissioning of relay protection and remote control systems in MV and HV facilities
- Preparation of relay protection settings studies
- Regular and corrective maintenance of electric power facilities
- Configuration and parametrization of relay protection for MV and HV facilities
- Regular annual overhauls of HV equipment on MV and HV facilities
- Regular annual testing of relay protection system and remote control system on MV and HV facilities

## Power supply systems

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- Designing power supply systems for LV, MV, and HV facilities (rectifier systems, inverters, DC/DC converters, batteries)
- Testing and functional evaluation of power supply systems
- Installation, commissioning, and maintenance of power supply systems

## Commercial and industrial facilities

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- Design, erection and commissioning of complete electrical part of public, business and residential buildings, industry and other facilities
- LV installations, telecommunication, safety, security, maintenance and monitoring systems
- Smart control and monitoring systems on facilities and systems integration

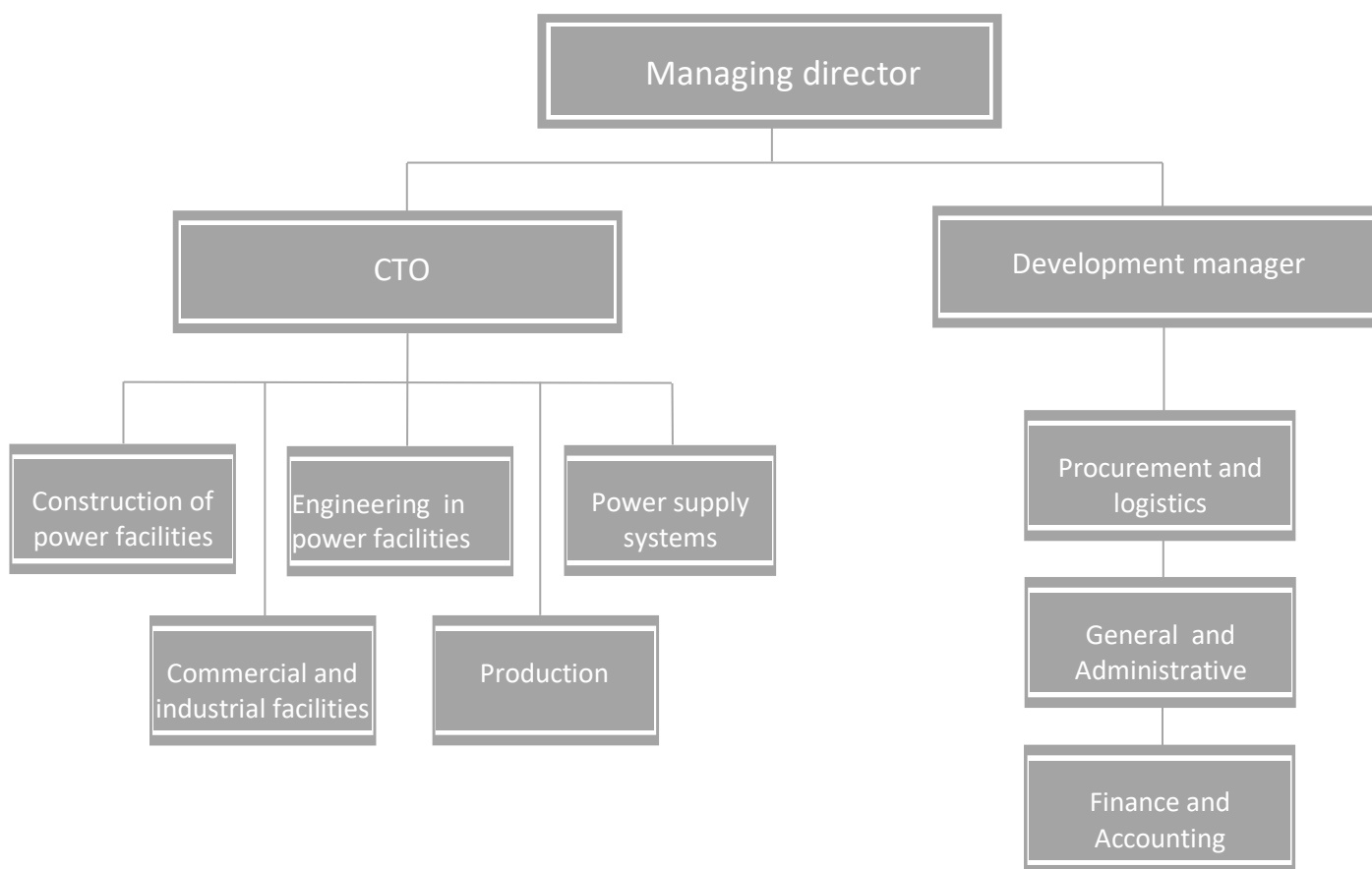
## Production

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- Production of cabinets for relay protection and remote control
- Production of cabinets for power supply systems for LV, MV, and HV facilities
- Production of cabinets for automation and installations for commercial and industrial facilities

## ORGANIZATIONAL SCHEME

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## REFERENCES LIST

### I Medium Voltage and High Voltage facilities

- 1) Technical specification of power energy equipment for SY 220 kV and SS 220/33 kV WF Kovačica as part of the preparation of tender documentation for the construction of WF Kovačica
- 2) Design documentation revision, power energy equipment specification and harmonization of design documentation with TSO (EMS) internal standards for SY 220 kV WF Kovačica
- 3) Configuration, parameterization, relay protection settings study and commissioning (FAT, SAT) of relay protection and auxiliary supply systems; commissioning (SAT) of circuit breakers, disconnectors and measuring transformers for SY 220 kV WF Kovačica
- 4) Documentation preparation and performing of Grid compliance tests (compliance with the TSO rules) for WF Kovačica
- 5) Design documentation revision, power energy equipment specification and harmonization of design documentation with TSO (EMS) internal standards for SY 400 kV WF Čibuk (Dolovo)
- 6) Configuration, parameterization, relay protection settings study and commissioning (FAT, SAT) of relay protection and auxiliary supply systems; commissioning (SAT) of circuit breakers, disconnectors and measuring transformers for SY 400 kV WF Čibuk (Dolovo)
- 7) Replacement of 6 kV circuit breakers in SG 6 kV TPP TENT B
- 8) Commissioning of relay protection system on five SS 35/10 kV in EPCG (Montenegrin DSO)
- 9) Setting and commissioning of relay protection in 6 kV facilities in the Oil refinery Pančevo - Switchgears N1, N2, 220, 2201, SS 35, BC, BD
- 10) Design, replacement and commissioning of relay protection in SS 35/10 kV Kanarevo brdo and SS 35/10 kV Novi Beograd 3
- 11) Configuration, parameterization and commissioning of relay protection in SS 110/20 kV Krnješevci
- 12) Configuration, parameterization and commissioning of relay protection in railway power stations: EVP Slovac, EVP Resnik and four PS power stations
- 13) Configuration, parameterization and commissioning of relay protection in SHPPs Vrgudinac, Seljašnica and Turica
- 14) Configuration, parameterization and commissioning of relay protection in 6 kV facility HPP Đerdap 2
- 15) Functional tests on the excavator station BWE6600 on surface mine Kolubara
- 16) Regular annual overhaul in seven SS 110/35/10 kV PD Centar Kragujevac
- 17) Relay protection settings study for Bosch factory facility 20/0.4 kV
- 18) Relay protection settings study for 6 kV facilities of JKP Beogradske Elektrane (Belgrade heating plants)
- 19) Testing of relay protection in 110 kV, 35 kV and 6 kV facilities of JKP Beogradske elektrane during regular annual overhauls
- 20) Configuration, parameterization and commissioning of relay protection and control system in HPP Vrla 1 (2x40MVA)
- 21) Preventive and corrective maintenance of BoP complex - Wind Farm Čibuk 1 (157MW)
- 22) Configuration, parameterization and commissioning of relay protection and control system in SS 110/6 kV Rudnik 4 and SS 110/35/10 kV Loznica 2
- 23) Configuration, parameterization and commissioning of relay protection in EVP Zemun, PSN Batajnica and PS Stara Pazova (railway substations on Beograd - Novi Sad railway section)
- 24) Configuration, parameterization and commissioning of relay protection and control system in SS 110/10 kV Čukaru Peki and PRP 110kV Bor 4, Bor
- 25) Design documentation for detail design of SHPP Rovni and SHPP Čelije

- 26) Configuration, parameterization and commissioning of relay protection and control system, and Relay protection settings study - SHPP Rekovići (3x2.8MVA)
- 27) Configuration, parameterization and commissioning of relay protection and control system in SS 110/35/20kV Tutin
- 28) Configuration, parameterization and commissioning of relay protection and control system in PRP 220kV TETO Pančevo (GIS 220kV facility)
- 29) Erection of primary and secondary electrical equipment in EVP Indija, PSN Beška and PS Sremski Karlovci (railway substations on Beograd - Novi Sad railway section)
- 30) Configuration, parameterization and commissioning of relay protection and control system in EVP Indija, PSN Beška and PS Sremski Karlovci (railway substations on Beograd - Novi Sad railway section)
- 31) Erection and commissioning of telecommunication system in PRP 110kV and SS 110/10kV Veliki Krivelj 2, Bor
- 32) Configuration, parameterization and commissioning of relay protection and control system in PRP 110kV and SS 110/10kV Veliki Krivelj 2, Bor
- 33) Erection of primary and secondary electrical equipment in SS 110/10kV Bor 5 with 110kV cable lines to PRP 110kV Bor 5, Bor
- 34) Installation and commissioning of complete telecommunication system on facilities: PRP 110kV and SS 110/10kV Veliki Krivelj 2; PRP 110kV and SS 110/10 kV Bor 5, Bor
- 35) Configuration, parameterization and commissioning of relay protection and control system in PRP 110kV and SS 110/10kV Bor 5, Bor
- 36) Delivery, installation and documentation design for teleprotection devices installation in Serbian TSO (EMS) HV power stations
- 37) Delivery and installation of parts of relay protection and control system for 220kV PRP Pančevo power station
- 38) Delivery and installation of parts of relay protection and control system for HV/MV facilities in TCPP Pančevo and Oil Refinery Pančevo

## **II Commercial and industrial facilities**

- 1) Institute for Cardiovascular Diseases Dedinje 2 hospital
- 2) Multifunctional sports hall Košutnjak
- 3) Faculty of Electronic Engineering, Niš
- 4) Business complex Parking Servis
- 5) Health station Borča
- 6) Residential complexes SPV Avala (Beograd - Zemun), SPV Dunav and SPV Tisa (Novi Sad)
- 7) Several retail stores Delhaize Srbija (hypermarkets, supermarkets)
- 8) High school Dragačevo, Guča
- 9) Health station Alibunar
- 10) High school Alibunar
- 11) High school Lazarevac
- 12) Hospital Smederevska Palanka
- 13) Hotel Grand Kopaonik
- 14) Football stadium Kraljevica, Zaječar
- 15) HQ of the Tax Administration in Belgrade
- 16) Parking servis building A

## **LIST OF ONGOING PROJECTS**

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### **I Medium Voltage and High Voltage facilities**

- 1) Preventive and corrective maintenance of BoP complex - Wind Farm Kovačica (104MW)
- 2) Commissioning of railway power stations on Beograd - Novi Sad and Novi Sad - Subotica railway line
- 3) Production, delivery and installation of 220V/48V DC-DC converter panels (self consumption system) for Serbian TSO (EMS) HV power stations
- 4) Production of a relay protection and control system cabinets for SS 400/110 kV Bor 6, Bor (63 panels in total)
- 5) EPC BoP contractor for all electrical works on substation and MV cable network , including commissioning and putting into operation – Wind Farm Pupin (94,6MW), Kovačica
- 6) Reconstruction and regular maintenance of HV and LV facilities on highways (substations and distribution centers)
- 7) Installation of equipment for relay protection systems and telecommunications at EMS facilities (TS Jagodina 4, TS S. Mitrovica 2, TS Sombor 3).
- 8) Production of control and protection cabinets for EMS facilities (TS Bor 2, PRP Bor 4, PRP Košava, RP TENT B, TS Jagodina 4, RP Đerdap 2
- 9) Equipment and construction of DC fields in EMS facilities (TS Bor 2, PRP Bor 4)

### **II Commercial and industrial facilities**

- 1) Sports hall Inđija
- 2) Sports center Radnički, Belgrade
- 3) Airport dock building – Airport “Konstantin Veliki” Niš
- 4) University Children's Clinic "Tiršova 2"
- 5) Wastewater treatment plants in Niš
- 6) Scientific-Technological Park Niš - phase 2
- 7) Maxi Facilities (Delhaize)