

# COMPANY PRESENTATION



## EL KONTROL EOOD

PROFESSIONAL SOLUTIONS IN THE ENERGY INDUSTRY

EL KONTROL EOOD is a private partnership **established in 1999** in Stara Zagora, Bulgaria.

We specialize in construction in the energy industry, completing **engineering projects** for the needs of the power distribution sector, power generation sector, infrastructure and industry.

Our leading motivation for development is to provide the clients with **Professional solutions in the energy industry.**



To render our services, **we run several Departments:** Electrical installation, Construction, Electrical design, Trade, Production of electrical panels, Industrial electronics service-station, Inspection body for control tests and commissioning.

EL KONTROL is seated in a modern **Business Complex built with Company's own investments** and located in Stara Zagora, Bulgaria.

## BUSSINESS COMPLEX



# ANNUAL TURNOVER

Period 2011 – 2021, thousands euro



## PERSONNEL

### Average number of personnel, period 2011 – 2021



We rely on a staff of qualified engineers, designers, technicians, electricians and construction workers.

Our experienced professionals work together with young specialists, motivated for career development.

To answer the requirements of a specific project EL KONTROL is able to hire additional number of personnel.

# QUALITY GUARANTEE

Quality of our workmanship, safety of employees, preservation of the environment, and security of information are guaranteed by our certification to the internationally recognized standards **ISO 9001, ISO 45001, ISO/IEC 27001 and ISO 14001**.



# COMPANY DEVELOPMENT

In 2021 we established a **new company** in the Republic of Germany.

**EL KONTROL GmbH.** is registered with the German Chamber of Crafts, Munich (Handwerkskammer München).

Company is involved with completion of construction projects in Germany and Western Europe being closer to local customers.



# ELECTRICAL INSTALLING

We install, repair, and commission **low-voltage, middle-voltage, and high-voltage switchgear**: from 0.4 kV to 400 kV.

## Scope of electrical installation activities:

- Installation of primary devices
- Installation of secondary devices
- Replacement of MV and LV electrical switchgear
- Installation of busbar systems, insulator chains, lighting systems, grounding and lightning protection installations;
- Completion of cable routes, laying and connection of power and control cables;
- Control tests and commissioning



# CONSTRUCTION

EL KONTROL completes construction projects on its own **from zero-level elevation to the site's takeover** with a Permit to Use.

We have a substantial fleet of plant and machinery needed for execution of construction activities.



# INSPECTION BODY

Our Inspection Body of type-C was formed in 2000. It is accredited to **BDS EN ISO/IEC 17020 Standard**.

**Services:** Inspection and control of electrical parameters, cable line marking, elimination of cable failures, test of protective dielectric means, set-up relay protection, earth-loop impedance, resistance of grounding systems.



## Fiber optic networks

Design, installation and commissioning of fiber optic networks and lines. Supervision of projects for fiber optic installations.

## Equipment

Well-equipped test station with high-precision class measuring devices; Mobile test station for high voltage tests on site.

# ELECTRICAL PANELS



We produce wide range of electrical panels in compliance with **BDS EN 61439-2** international Standard.

## TYPES OF PANELS PRODUCED:

- Distribution panels
- Panels for buildings
- Relay protection panels
- Power factor regulators
- Automatic switch-over supply for low voltage with controllers
- Automation panels
- Electro metering panels
- Control panels

# TRADE

We maintain a store and showroom for **sale of industrial and electrical equipment** of the following commodity groups:

- Switching equipment
- Motors, frequency inverters
- Industrial plugs and sockets
- Electro installation switches and outlets
- Relays
- Industrial Automation
- Terminal blocks and accessories
- Electro installation materials
- Cables, conductors, cable accessories.



# OUR EXPERIENCE

Since 1999 EL KONTROL has worked with all major local and foreign investors. We have completed a number of **projects of national significance** for the Bulgarian energy industry.

We have gained experience in the following areas:

- Electrical Substations and Overhead Lines
- Power Plants under operation
- Transport infrastructure
- Mining Industry
- Oil & Gas Industry
- Various industrial enterprises



# SIEMENS PARTNERSHIP

EL KONTROL has been in business partnership with SIEMENS **since 2007**.

We have successfully completed a considerable number of construction projects.

We are **SIEMENS VAR Partner** regarding system automation solutions for energy automation based on SIEMENS products.

As SIEMENS Solution Partner for Bulgaria EL KONTROL is certified in modules:

- Drives & Motion
- Relay protection



# RECENT PROJECTS

## Biovet Plant, Peshtera

EL KONTROL was selected as Siemens subcontractor for Enlargement of 110/6.3 kV Substation Biovet in Peshtera, Bulgaria. Project includes elaboration of detailed design, supply of equipment, construction and commissioning of new facilities. We completed the following activities:

- Installation of primary equipment: 110 kV gas-insulated switchgear, 110 kV cable ends, 110 kV surge arresters, current limiting reactors, 6.3 kV switchgear, 110/6 kV power transformers, 6/0.4 kV auxiliary transformers, 110 kV three-phase disconnecter with earthing switch; accumulator battery, rectifier, invertors, 6 kV capacitor batteries, completion of earthing and lightning-protection installations.



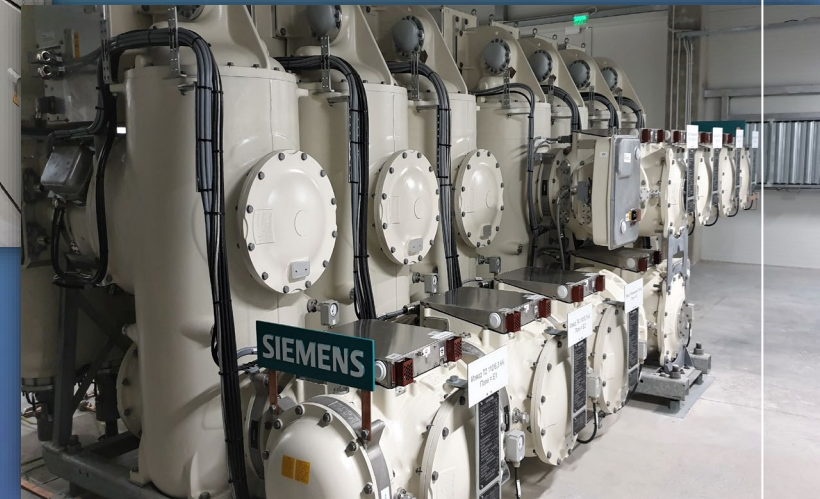
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# RECENT PROJECTS

## Biovet Plant, Peshtera

- Installation of secondary equipment: manufacturing, delivery and installation of relay panels; delivery, laying and connection of power and control cables; construction activities;
- Completion of lighting and socket installation in Control room, new Substation unit.
- Commissioning works and putting all the equipment and installations under operational power.

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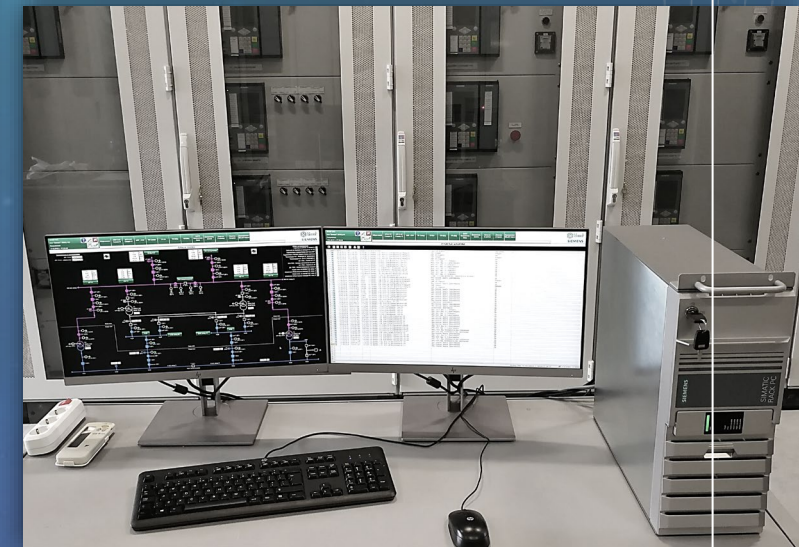


# RECENT PROJECTS

## Biovet Plant, Peshtera

Along with the project for enlargement of Enlargement of 110/6.3 kV Substation Biovet we completed also: construction of MV electrical distribution network, construction of MV and LV switchgear; modernization of 110/6 kV switchgear; construction of cable routes in S/st Biovet.

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# RECENT PROJECTS

## Mobile Substations

Subject of the project is design and construction of two identical 20/6,3 kV, 10 MVA Mobile Substations for uninterrupted power supply of mining consumers at Martsa-East Mines, Bulgaria.

The Substations are designed with SIEMENS equipment.

EL KONTROL completed installation of 20/6 kV Power Transformer, construction of electro-houses, delivery and installation of 20 kV Switchgears and 6 kV Switchgears.

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# RECENT PROJECTS

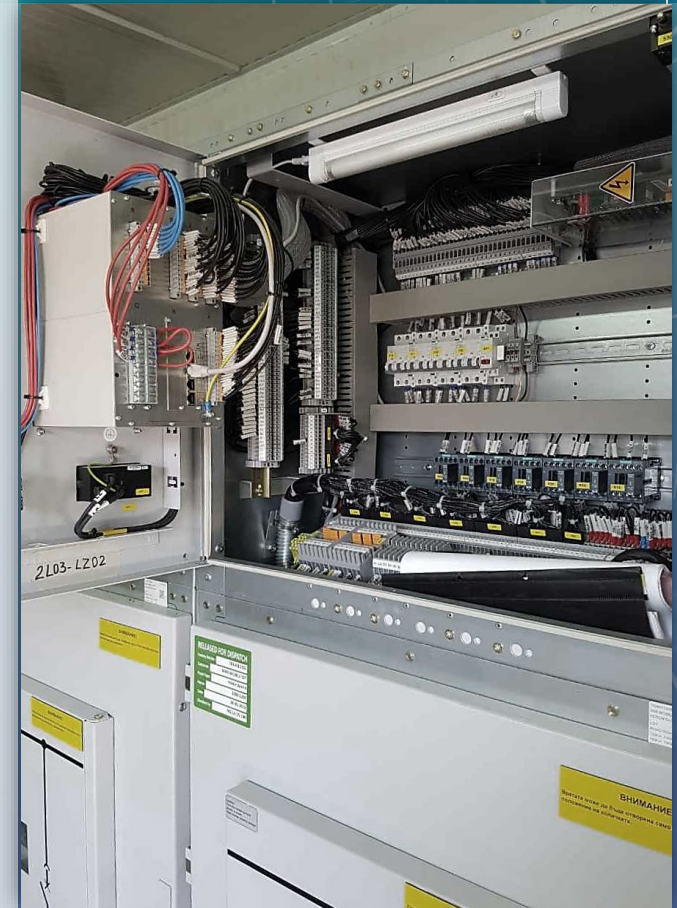
## Movable Substations

We also installed 20/0.4 kV auxiliary transformer, three-pole disconnecter, rectifier, accumulator battery, inter connected star grounding transformer, and active resistance.

We produced and installed AC and DC auxiliary switchboards, and control panels. Also, completed SCADA and wireless data transfer via radio connection.

At final stage, the two Mobile Substations were commissioned and put under operational power.

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## RECENT CHALLENGE

Recently we were challenged to solve an issue with a 7SL82 line differential protection for a 110 kV overhead line.

*The issue:*

Communication failure of the protection interface.

*Solution:*

We had very good communication and assistance from Siemens Bulgaria experts, who coordinated the issue together with the specialized support from Siemens Germany. Finally, the problem was resolved successfully, we managed to complete the project in time and the end customer was happy!





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