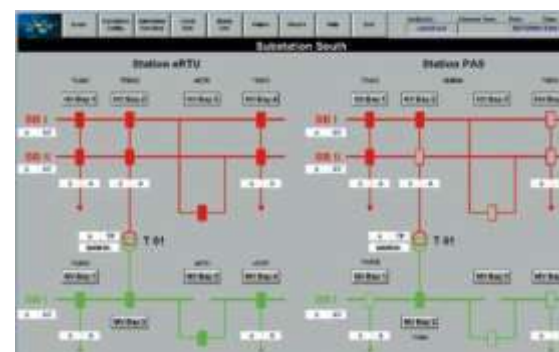




# Solutions for Power Distribution



**ELCOM** is a **EPC company** and cooperate with largest equipment manufacturers:



Končar - Inženjering za  
energetiku i transport d.d.







## Finished Projects

Total 24 kV panels: 94 pcs

Total 36 kV panels: 24 pcs

### Substation 110/35/10 kV Konjic

- 16 Unigear ZS 1 24 kV panels
- 7 Unigear ZS 2 36 kV panels

### Substation 110/35/10 kV HAK

- 14 Unigear ZS 1 24 kV panels
- 13 Unigear ZS 2 36 kV panels

### Substation 110/35/10 kV Zenica 2

- 4 Unigear ZS 1 24 kV panels

### Substation 110/35/10 kV Vitez

- 7 Unigear ZS 1 24 kV panels

### Substation 110/35/10 kV Čapljina

- 18 Unigear ZS 1 24 kV panels

### Substation 110/35/10 kV Kupres

- 4 Unigear ZS 1 24 kV panels

### Substation 110/x kV Pazarić

- 13 Unigear ZS 1 24 kV panels
- 4 Unigear ZS 2 36 kV panels

### Substation 110/x kV Žepče

- 16 Unigear ZS 1 24 kV panels
- 8 Unigear ZS 2 36 kV panels

### Substation 110/x kV Sarajevo 1

- 18 Unigear ZS 1 24 kV panels





**Solutions for Power Distribution Systems**

# **Substations 110 kV**





## Substation 110/35/10 kV Konjic

### Engineering

- Detail Electrical design
- Detail Construction design
- Supervision
- Commissioning

### Procurement

- MV switchgear
- SF6 circuit breakers
- Current transformers
- Disconnectors and Earthing Switches
- Transformer

### Construction

- Dismantling of old equipment
- Installation of new equipment
- Building reconstruction







*BEFORE*





## **RECONSTRUCTION**

*Reconstruction needed to be done almost without no breaks in power distribution because of requests from distribution company and high demands for power from large industrial customers*





**RECONSTRUCTION** 110 kV reconstruction







After







After reconstruction





## Substation 110/35/10 kV Mostar 2

### Engineering

- Detail Electrical design
- Detail Construction design
- Supervision
- Commissioning

### Procurement

- Power transformer
- SF6 circuit breakers
- Current transformers
- Disconnectors and Earthing Switches

### Construction

- Dismantling of old equipment
- Installation of new equipment
- Building reconstruction



**Before of reconstruction**





# Substation 110/35/10 kV HAK

## Engineering

- Detail Electrical design
- Detail Construction design
- Supervision
- Commissioning

## Procurement

- Power transformer
- MV Switchgear
- SF6 circuit breakers
- Current transformers
- Disconnectors and Earthing Switches

## Construction

- Dismantling of old equipment
- Installation of new equipment
- Building reconstruction







BEFORE





After installation

New switchgear 35 kV and 10(20) kV ABB





Control room

**New AC/DC power supply, control and protection relays, telecommunication and SCADA system**





# Projects under construction

## Engineering

- Detail Electrical design
- Detail Construction design
- Supervision
- Commissioning

## Procurement

- Power transformer
- MV Switchgear
- SF6 circuit breakers
- Current transformers
- Disconnectors and Earthing Switches

## Construction

- Dismantling of old equipment
- Installation of new equipment
- Building reconstruction

## Substation 110/35/10 kV Pazarić Substation 110/35/10 kV Žepče



*Before reconstruction*



# Projects under construction

## Substation 110/35/10 kV Žepče

### Engineering

- Detail Electrical design
- Detail Construction design
- Supervision
- Commissioning

### Procurement

- Power transformer
- MV Switchgear
- SF6 circuit breakers
- Current transformers
- Disconnectors and Earthing Switches

### Construction

- Dismantling of old equipment
- Installation of new equipment
- Building reconstruction

### Scope of reconstruction

- Detail civil and electrical design
- Dismantling of old equipment
- Installation of new equipment
- Installation of a new power transformer
- Testing and commissioning

### Equipment

- New power transformer 20 MVA Končar
- 110 kV disconnectors – Končar
- 110 kV SF6 circuit breakers - Končar
- 110 kV current transformers - Končar
- 110 kV voltage transformers - Končar
- SCADA system - Končar
- Protection relays – Schneider Electric



## Projects under construction

Civil works on 110 kV



Substation 110/35/10 kV Žepče





## Projects under construction

New power transformer

Substation 110/35/10 kV Žepče







## After construction

New power transformer



Substation 110/35/10 kV Žepče







## After construction

### Substation 110/35/10 kV Žepče

New power transformer



New control cabinet, power supplier, SCADA system





# Projects under construction

## Substation 110/35/10 kV Pazarić

### Engineering

- Detail Electrical design
- Detail Construction design
- Supervision
- Commissioning

### Procurement

- Power transformer
- MV Switchgear
- SF6 circuit breakers
- Current transformers
- Disconnectors and Earthing Switches

### Construction

- Dismantling of old equipment
- Installation of new equipment
- Building reconstruction

### Scope of reconstruction

- Detail civil and electrical design
- Removal of existing buildings
- Dismantling of old equipment
- Construction of a command control building
- Installation of new equipment
- Installation of a new power transformer
- Testing and commissioning

### Equipment

- New power transformer 40 MVA Hyundai
- 110 kV disconnectors – Alstom
- 110 kV SF6 circuit breakers - ABB
- 110 kV current transformers - Končar
- 110 kV voltage transformers - Končar
- 35 kV switchgears - ABB
- 10(20) kV switchgears - ABB
- SCADA system - Siemens
- Protection relays - Siemens





# Projects under construction

Civil works

**Substation 110/35/10 kV Pazarić**





# Projects after construction

## Substation 110/35/10 kV Pazarić

Civil works



Control cabinets



New power transformer 40 MVA





## Projects after construction

### Substation 110/35/10 kV Pazarić

New transformers



New voltage transformers

