

MV & HV SWITCHGEARS



*Installation
Servicing
Testing
Commissioning*

MISSION With exceptional professionalism we always exceed our customers' expectations by increasing their productivity and competitiveness and making sure that working with us is always a pleasure.

Through a spirit of togetherness and our dedication to continuous improvement we create a positive working atmosphere and an environment in which exceptional results are encouraged, recognized and rewarded.

With our socially responsible behavior we are a role model for others in sustainable community development.

24 years of professional experience in installing, servicing, testing and commissioning in the field of production, transmission and distribution of electric power.

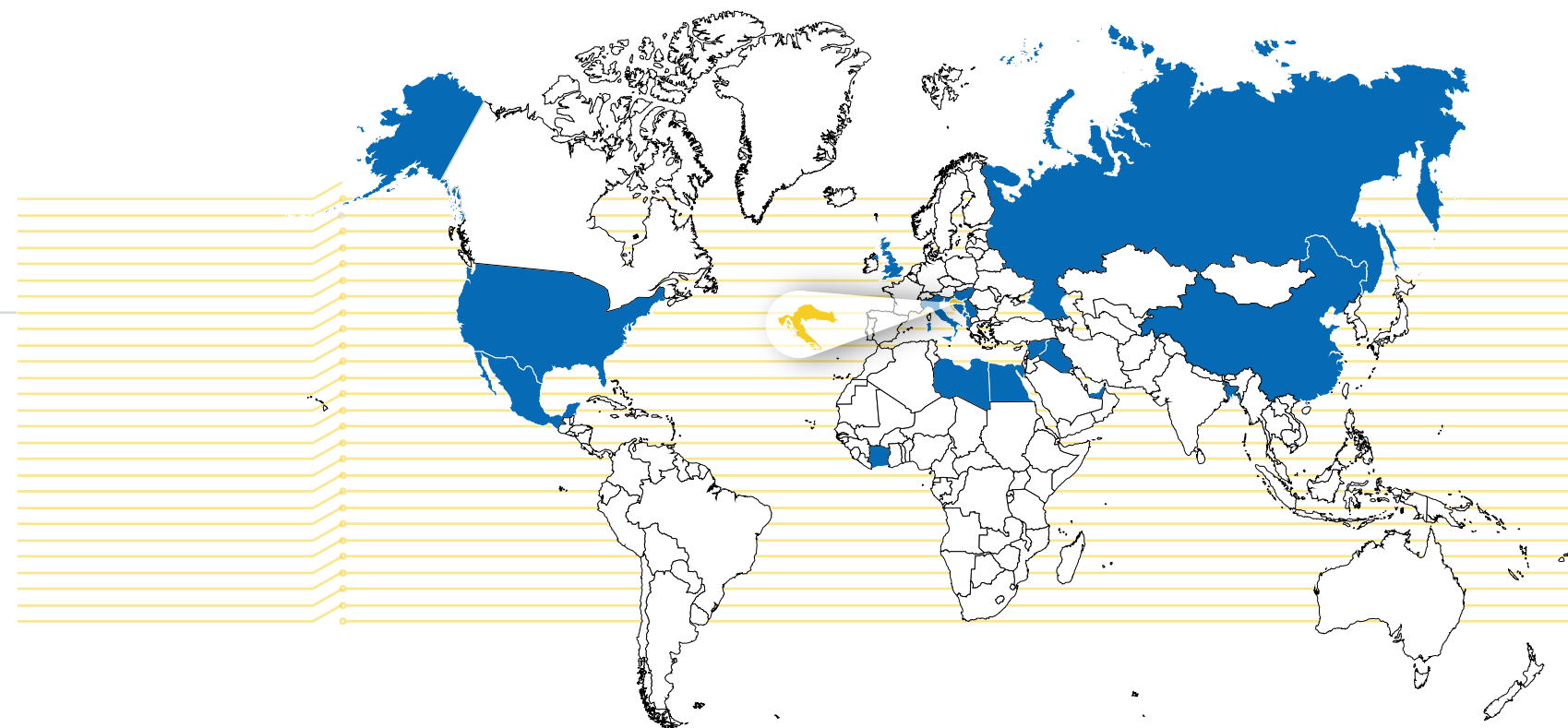
24 years of tradition and reliability

percentage of college-educated people has risen to 35%

100 employees

100% private ownership

over 3000 references



WHAT DO WE DO? development and design of electrical systems and products

production of electrical products and devices

delivery and installation of electrical equipment

testing and commissioning of electrical switchgears, automation systems and systems used in explosive atmospheres

maintenance and improvement/upgrade of electrical systems

Quality management and environment protection – certified according to ISO 9001 & ISO 14001

KEY MV AND HV
LEVEL REFERENCES:

- CROATIA — 24 years of continuous work on Croatian substations (35/110/220/400 kV)
- ALBANIA — Substations Tirana, Elbasan, Fierza and Vau Dejës
- ARGENTINA — Nuclear power plant Embalse
- BANGLADESH — Thermal power plant Ashuganj
- BOSNIA & HERZEGOVINA — Power plant Čapljina, HV Cables and Power transformers
Hydro power plant Rama, HV Cables
- KOSOVO — Thermal power plan Kosovo A
- IRAQ — Hydro power plant Dukan, Derbandikan
Substations ss 132/ 33/ 11 kV Koya, Rezan, Soran, Shaqlawa, Qushtapa
- MONTENEGRO — Coal thermal power plant Pljevlja



Experts for MV & HV Switchgears

*Installation
Servicing
Testing
Commissioning*

Power transformer installation

Steel structure assembly

Transformer bay installation

Generator bay installation

Line bay installation

Section bay installation

Metering bay installation

Earthing

Production of auxiliary supply
distribution boards

Production of control cubicles

Production of protection cubicles



CABLE NETWORKS

- Assembly of cable joints
- Assembly of cable terminations
- Laying of power cables
- Laying of signal cables
- Connection of cables to switchgears
- Installation of cable ducts
- Installation of cable trays



BUSBAR SYSTEMS

- Preparation of switchgears for the installation of busbar systems
- Installation of universal busbar systems manufactured by different manufacturers
- Production of busbar systems according to specific customers' requirements
- Installation of support and bushing insulators
- Connection of feeders to busbar systems
- Testing and commissioning



Quality control and commissioning

With the purpose of satisfying all customers' needs, HELB conducts quality control at all stages of production or electrical works.

Quality control is conducted according to QC plan to check that all project requirements, regulations and standards are met.

QUALITY CONTROL INCLUDES:

Control of material and equipment to be built into a product

Interstage control

Control of final products or functional testing of switchgears

Acceptance tests required by the customer

Check of the documentation to be submitted to the customer

VARIETY OF TESTS PERFORMED BY HELB:

Cable insulation resistance test
Current and voltage transformer test
Transient resistance measurement
Transformer protection device test
High voltage test
Battery capacity test
Protection against indirect contact test
Earthing resistance test
Earth continuity test
Lightning protection installation test
Electrical installation test
Auxiliary power supply system DC or AC voltage test
Electric motors protection test
Protection against static electricity test
Secondary circuit-breaker test
Diffusion resistance measurement
Thermal imaging

RENEWABLE ENERGY SOURCES



SUN *As an important partner in the region in the field of electric power, HELB has installed over 15 island and network solar plants on a "turn key" basis.*

WIND *Having installed a number of wind measurement masts, as well as performed electrical works on the largest Croatian wind farm "Vrataruša" (42 MW), HELB has laid a foundation for the exploitation of wind power in Croatia.*

OIL AND GAS INDUSTRY



20 years of product development for oil exploration activities produced a vast portfolio of products for the oil and gas industry, ranging from instrumentation and SCADA systems to large containerized facilities for onshore and offshore rigs:

- Containerized SCR (Silicon Controlled Rectifier) and VFD (Variable Frequency Drive) System
- Containerized MCC (Motor Control Center)
- Auxiliary Service Loop
- RINA-Portable distribution board
- Portable stable power supply distribution board - 5 kVA & 20 kVA
- Top Drive/ Mud Pump/ Draw-works/ Rotary Table Control Panel
- HELB Drilling instrumentation
- HELB Automatic Drilling System
- HELB Active Damping System

A Declaration of Conformity is issued for all finished products and a Test Report for product or switchgear testing.



Tradition Reliability Quality



www.helb.hr