

HELB

Engineering for energy infrastructure







Mission

We are an engineering team based on experience, excellence and partnership that provides solutions beyond expectations.

We are proud to make electricity available for next generations through our community and co-creation.

Vision

We will become a digital engineering company by 2025 through continuous creation of top experts.

We will be the first choice in the integration of advanced power systems through the implementation of new technologies and knowledge on the local and global market.



Values

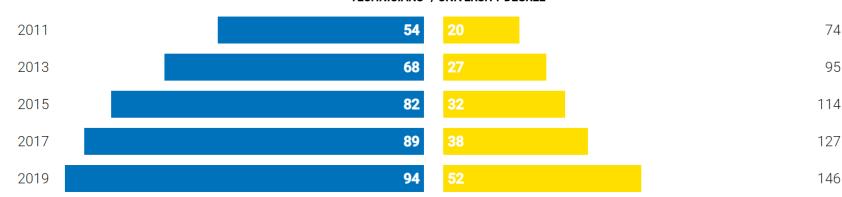
- Cooperation / Communion / Partnership
- Openness / Trust / Sincerity
- Responsibility
- Contribution / Productivity / Creativity
- Learning / Flexibility / Adaptability
- Love / Care about somebody and/or something



Business segments

- ENGINEERING SERVICES
- ► PRODUCTION
- PLAN CONSTRUCTION
- OIL AND GAS
- CONTROL AND MAINTENANCE

TECHNICIANS* / UNIVERSITY DEGREE**



^{*} A technician means a highly qualified employee with a maximum of high school certificate.

^{**} The university degree marks the first-degree diploma, graduate degree and master's degree.



Engineering



Engineering Services











Quality management systems

ISO 9001 | ISO 14001 | ISO/IEC 27001 | ISO 45001 |SCCp | ISO/IEC 29001

- More then 250 professional trainings
- More then 120 certificates









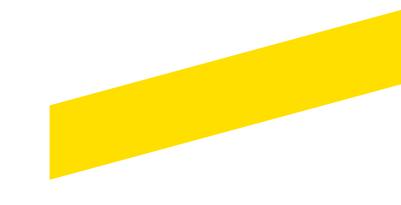




Engineering services



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Engineering Services



Production







IN-HOUSE SOLUTIONS FOR THE CONSTRUCTION OF THE POWER INFRASTRUCTURE.



DESIGNING

EPLAN Electric P8, AutoCAD, DiaLUX, Relux software tools and other specialized software



AUTOMATION

Automation of the manufacturing process or an optimization for power consumption



TESTING

From basic and functional testing to specialist and diagnostic testing



RELAY PROTECTION

Extends the testing from the primary (power system) to the secondary (control system)



PROJECT MANAGMENT

Using our own developed business software system



CONSULTING

various consulting services in the power sector and oil and gas sector



SUPERVISION

Includes the examination of the conditions that the contractor must fulfill



HEALTH AND SAFETY AT WORK

Health and Safety Management System – BS OHSAS 18001



ENERGY CONSULTING

Through energy audits - energy and cost optimization

Production



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Engineering Services



Production



WE PRODUCE CUSTOM-TAILORED SOLUTIONS









CONTROL AND PROTECTION CABINETS

Creation of advanced control solutions used in automation of industrial processes or in transformer station protection systems



LOW POWER ENERGY DISTRIBUTION

Complete technical solution—design, manufacture, installation and commissioning



PORTABLE POWER AND CONTROL CABINETS

Robust power and control cabinets for mobile power supply for industrial consumers



ENERGY DISTRIBUTION CABINETS

Mobile datacenters, prefabricated plants, mobile drilling rigs for the petroleum industry and many others.



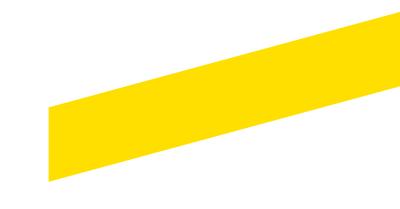
LOW POWER ENERGY DISTRIBUTION

Experienced team of designers, engineers and technicians can handle the most diverse specialized products.

Plant Construction



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Engineering Services



Production



Plant Construction





COMPLETE ENGINEERING SERVICE FOR POWER PLANTS.



DISTRIBUTION OF ELECTRICITY

Market leader in the construction of turn-key primary distribution facilities



ELECTRICITY TRANSMISSION

Specialized in the construction of the most complex transmission network facilities. Over 3,000 references worldwide



ELECTRICITY PRODUCTION

Through biomass, hydro, wind, solar or geothermal power plants building



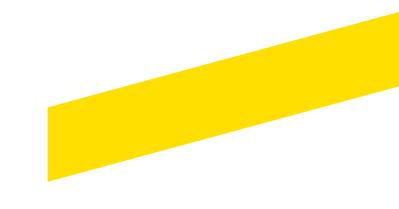
INDUSTRIAL PLANTS

Solutions for industrial drives such as process automation, monitoring and control systems to industrial customers

Oil and Gas



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Engineering Services



Production









AUTOMATION OF DRILLING PLANTS WITH STATE-OF-THE ART **TECHNOLOGY**





PLANT POWER SUPPLY AND CONTROL SYSTEMS

DC motor drive – SCR, AC motor drive – VFD and auxiliary distribution facility – MCC



SPECIAL CABLES FOR TOP DRIVES (SERVICE LOOPS)

Compatible with worldwide for monitoring and control of Top Drives and power supply of Top Drives



AUTOMATION SYSTEMS

The Z-Torque – the torsional vibration damping device, drilling parameter tracking system, automatic drilling system, etc.



RECONSTRUCTION AND UPGRADE OF ELECTRICAL SYSTEMS (DRILLING PLANTS)

High quality service for reconstruction and upgrading of various electrical systems (BV, GL, DNV, LR, ABS, etc.)

Control and Maintenance



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Engineering Services



Production









Control and Maintenance

MAINTAINING AN ENERGY SYSTEMY YOU INCREASE IT'S RELIABILITY AND PREVENT FAILURES



INTERVENTIONAL MAINTENANCE 24/7

Urgent intervention, removal of the malfunction and re-start of the plant



PREVENTIVE MAINTENANCE 365

Preventive maintenance throughout the life of the plant. Periodic examinations and diagnostic tests



REMOTE MONITORING AND MANAGEMENT OF THE OBJECT

By implementing SCADA systems or cloud monitoring solutions, minimizing OPEX



ADVANCED MANAGEMENT AND MAINTENANCE SOLUTIONS

By applying Augmented Reality, we allow efficient knowledge transfer of our specialists at the request of the user.

Projects



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Croatia: Wind farm Senj

- CLIENT: YOUTONE CONSTRUCTION LTD.
- LOCATION: SENJ, CROATIA
- SCOPE OF WORK: ELECTRICAL INSTALLATION WORKS, TESTING, AND
 COMMISSIONING
 - ► LARGEST WIND FARM IN CROATIA, 39 WIND TURBINES, TOTAL CAPACITY 156 MW, PRODUCE. 530 MIL. KWH A YEAR
- ► YEAR: **2021.**







Germany: GEKA substations

CLIENT: SCHALTTECHNIK NORD GMBH.

LOCATION: GERMANY

SCOPE OF WORK: CABINETS, ELECTRICAL INSTALLATION
 WORKS, TESTING, AND COMMISSIONING OF THREE
 SUBSTATIONS IN GERMANY

 GEKA – the leading manufacturer and supplier of innovative and precise solutions for cosmetics products

► YEAR: **2021**









Croatia: Relocation of the substation with a private buyer

- CLIENT: IREKS AROMA LTD.
- LOCATION: CROATIA
- SCOPE OF WORK: RELOCATION OF SS, MV AND LV CABLE

CONNECTIONS

- CONSTRUCTION OF SS 20/0.4 kV, 1×1000 kVA, DISMANTLING OF EXISTING SS, AND FINAL TESTS, MEASUREMENTS, AND COMMISSIONING.
- ► YEAR: **2021.**









Croatia: SS Brinje 220/35 kV

- CLIENT: NORINCO INTERNATIONAL COOPERATION LTD.
- ► LOCATION: SENJ, CROATIA
- SCOPE OF WORK: RECONSTRUCTION OF SS BRINJE 220/35 KV
 - For the Chinese company Norinco, as part of the wind farm Senj grid connection, HELB designed, installed, and commissioned the 220 kV OHL Feeder "WF Senj" to which the entire wind farm is connected.
- ► YEAR: 2021.









Croatia: Electric power plants in the transmission area of Rijeka

- CLIENT: CROATIAN TRANSMISSION SYSTEM OPERATOR LTD.
- LOCATION: RIJEKA AREA, CROATIA
- SCOPE OF WORK: REPLACEMENT OF DISCONNECTORS TYPE CBE
 110 kV on Power Plants in Rijeka Transmission Area
 - SS LIČKI OSIK, EVP MORAVICE, SS DELNICE, SS CRIKVENICA, SS KRASICA, SS MATULJI, SS BUTONIGA, SS PAZIN AND SS POREČ.
- ► YEAR: 2020









Croatia: INA Oil Refinery Rijeka

CLIENT: IVICOM CONSULTING LTD.

LOCATION: RIJEKA, CROATIA

SCOPE OF WORK: RECONSTRUCTION, CONSTRUCTION OF A
 SUBSTATION, TESTING, AND PARTICIPATION IN
 COMMISSIONING

YEAR: 2020









Ghana & DR Congo: Cabinets

CLIENT: PRO INTEGRIS LTD.

LOCATION: GHANA AND DR CONGO

SCOPE OF WORK: PRODUCTION OF THE CONTROL AND PROTECTION CABINETS FOR KASOA BPS SUBSTATION IN GHANA AND HYDROPOWER PLANT IN THE DEMOCRATIC REPUBLIC OF CONGO.



► YEAR: **2020**







Germany: Design and production of cabinets

CLIENT: PAUL WURTH S.A.

LOCATION: SALZGITTER FLACHSTAHL GMBH, GERMANY

SCOPE OF WORK: DESIGN OF A PROGRAMMABLE LOGIC
 CONTROLLER AND A DISTRIBUTION CABINET, PRODUCTION
 AND TESTING

YEAR: 2020









Croatia: Solar power plant Vis

- CLIENT: KONČAR POWER ENGINEERING AND TRANSPORT INC
- LOCATION: VIS, CROATIA
- SCOPE OF WORK: ELECTRICAL INSTALLATION WORKS
 - Largest power plan in Croatia
- ► YEAR: **2020**









Croatia: Wind farm Korlat

CLIENT: ING — GRAD LTD.

LOCATION: BENKOVAC, CROATIA

SCOPE OF WORK: ELECTRICAL INSTALLATION WORKS, TESTING
 AND COMMISSIONING

One of the largest wind farms in Croatia

► YEAR: **2020**









Germany: Schalttechnik – Kraftwerk Zolling Thermal Power Plant

- CLIENT: SCHALTTECHNIK NORD GMBH.
- LOCATION: KRAFTWERK ZOLLING THERMAL POWER PLANT,
 GERMANY
- SCOPE OF WORK: FROM PRODUCTION AND ASSEMBLY OF MCC
 TO TESTING AND COMMISSIONING
- YFAR: 2019









Croatia: HRT – Croatian Radio and Television

CLIENT: HRT

LOCATION: PRISAVLJE ZAGREB, CROATIA

SCOPE OF WORK: RECONSTRUCTION OF ELECTRICAL INSTALLATIONS OF THE REDUNDANT UPS POWER SUPPLY OF THE MASTER IN THE HOME (MAIN BUILDING)

► YEAR: **2019**









World: On energy transformers in Africa, America, Asia and Europe

- CLIENT: KONČAR POWER TRANSFORMERS, KPT
- LOCATION: AFRICA, AMERICA, ASIA, EUROPE
- SCOPE OF WORK: PRODUCTION OF CONTROL CABINETS FOR
 POWER TRANSFORMERS, INSTALLATION AND SUPERVISION OF
 INSTALLATION OF POWER TRANSFORMERS

YEAR: 2019

Končar Power Transformers Ltd.







Region: Maintenance of wind farms

CLIENT: SEVERAL COMPANIES

LOCATION: CROATIA, MONTENEGRO, REGION

SCOPE OF WORK: MAINTENANCE OF WIND FARMS

THROUGHOUT CROATIA AND THE REGION

► YEAR: 2019







Croatia: Geothermal power plant

- CLIENT: SIEMENS CROATIA, INVESTOR: MB HOLDING, TURKEY
- ► PRODUCT GROUP: SIEMENS SIVACON, NX PLUS, SIMATIC, SIPROTEC
- LOCATION: 'VELIKA 1' CAPACITY 16.5 MWE, THE LARGEST
 GEOTHERMAL POWER PLANT IN CONTINENTAL EUROPE
- SCOPE OF WORK: THE SUPPLY OF EQUIPMENT AND
 ELECTROMECHANICAL WORKS IN TRANSFORMER STATION OF GTE
 VELIKA CIGLENA
- ► YEAR: **2018**









Oman: 220 kV substation

- CLIENT: (SIEMENS) KONČAR POWER TRANSFORMERS
- LOCATIONS: **SOHAR, OMAN**
- SCOPE OF WORK: SUPERVISION OF INSTALLATION AND TESTING
 OF POWER TRANSFORMERS 500 MVA, 220 KV
- ► YEAR: **2018**









Egypt: Combined - cycle natural gas power plants

- ► CLIENT: SIEMENS AG, GS SCM C SG EFS FS
- ► LOCATION: BENI SUEF, NEW CAPITAL & BURULUSS
- SCOPE OF WORK: SUPERVISION OF INSTALLATION OF POWER
 TRANSFORMERS 485 MVA, 500 KV
- ► YEAR: **2018**









Croatia: SS 110/10 (20) kV Zamet

INVESTOR: CROATIAN TRANSMISSION SYSTEM OPERATOR LTD.

CLIENT: SIEMENS CROATIA

LOCATION: CROATIA

SCOPE OF WORK: INSTALLATION OF GIS 110 KV FOR
 INTERNAL INSTALLATION

YEAR: 2017- 2018









Ukraine: Equipment for subarctic conditions

CLIENT: CROSCO, FOR UKRGASVYDOBUVANNYA (UGV) PJSC

► LOCATION: UKRAINE

SCOPE OF WORKS: PREPARATION OF EMSCO 605:

 Replacement of MCC connector and connecting board, drilling plant's cables and connectors, cooling units in PCR, complete lighting on the drill facility

Complete rig winterization

► YEAR: 2016 -2017









UK: Offshore wind park

CLIENT: DONG, PROINTEGRIS FOR SIEMENS

LOCATION: BURBO BANK & WALNEY EXTENSION - ONSHORE /
OFFSHORE PLANT 400, 220, 34 KV FOR WIND POWER
CONNECTION

SCOPE OF WORK: FUNCTIONAL TESTING

► YEAR: **2016**









Croatia: Dubrovnik airport

- CLIENT: DUBROVNIK AIRPORT
- ► LOCATION: DUBROVNIK, CROATIA, MEDITERANEAN TOURISTIC CENTAR
- SCOPE OF WORK: RECONSTRUCTION OF SUBSTATION TS-1
 10(20)/0,4 kV; 2x1000 Kva.
 - all works performed during the height of the season without the air traffic disturbance
- ► YEAR: 2016









Croatia: SS 110/10 (20) kV Ploče

- ► INVESTOR: CROATIAN TRANSMISSION SYSTEM OPERATOR LTD.
- CLIENT: KONCAR POWER PLANT AND ELECTRIC TRACTION ENGINEERING INC.
- LOCATION: PLOČE, CROATIA
- SCOPE OF WORK: SUPPLY AND INSTALLATION OF PRIMARY
 EQUIPMENT (GIS 110 KV) FOR INTERNAL INSTALLATION
- ► YEAR: **2016**









Iraq: New AIS 132/33/11kV SS

- CLIENT: KURDISTAN REGIONAL GOVERNMENT, MINISTRY OF ELECTRICITY (MOE)
- LOCATION: KOYA, REZAN, SHAQLAWA, SORAN, QUSHTAPA
- ► PROJECT DESCRIPTION:
 - **ERECTION WORKS**
 - ► SITE TESTING & COMMISSIONING OF ALL EQUIPMENT/SYSTEMS
- YEAR: 2013-2014









Croatia: Zagreb international airport

- CLIENT: ZAGREB INTERNATIONAL AIRPORT
- ► LOCATION: ZAGREB, THE CAPITAL OF CROATIA
- SCOPE OF WORK: CONSTRUCTION & RECONSTRUCTION OF SS
 & SWITCHYARDS
 - Challenge: continuous power supply
- ► YEAR: 1996-2014









Albania: Main 220 kV switchyards

- CLIENT: KESH SH.A. KORPORATA ELEKTROENERGJITIKE
 SHQIPTARE
- ► LOCATION: ALBANIA
- MAIN SWITCHYARDS FOR **HYDRO POWER PLANTS**: FIERZA & VAU DEJËS
 - All works conducted without power interruptions
- ► YEAR: **2013**









Croatia: Jackup drilling rig Labin

- CLIENT: CROSCO, INTEGRATED DRILLING & WELL SERVICES CO.
- ► LOCATION: CROATIA THE ADRIATIC SEA
- SCOPE OF WORK: RECONSTRUCTION, TESTING & COMMISSIONING
 OF THE MAIN POWER CONTROL STATION (GENERATOR INCOMERS,
 SWITCHBOARD, MAIN AC/DC DRIVES)
- ► YEAR: **2013**









Croatia: Photovoltaic solar plant Biograd

- CLIENT: MERIDIAN NEUE ENERGIEN GMBH, GERMANY
- LOCATION: BIOGRAD- THE BIGGEST SOLAR PLANT IN THE REGION OF DALMATIA
- THE INVESTOR'S INTERNAL QUALITY CONTROL UNDERLINES

 EXTREMELY HIGH QUALITY CONSTRUCTION & TECHNICAL

 PERFORMANCE
- ► YEAR: **2013**









Albania: Main 220 kV SS

- CLIENT: OST SHA ALBANIA -OPERATORI SISTEMIT
 TRANSMETIMIT
- LOCATION: MAIN SUBSTATIONS IN THE CAPITAL OF ALBANIA:
 TIRANA, ELBASAN
- ALL WORKS CONDUCTED IN EXTREME WEATHER CONDITIONS
- ► YEAR: **2012**









Croatia: Thermal power plant Zagreb

- CLIENT: CROATIAN ELECTRICITY COMPANY HEP-PRODUCTION LTD., BUILDING: BLOCK "L" 100 MWE/80 MWT
- SCOPE OF WORK: RECONSTRUCTION OF 110 KV SWITCHGEAR, RECONSTRUCTION OF LV & MV DISTRIBUTION BOARDS/SWITCHGEARS
 - All works conducted without power interruptions
- ► YEAR: 2009









Croatia: Windpark Vrataruša 42 MW

- CLIENT: VALALTA ROVINJ GREENFIELD INVESTMENT
- FIRST SIGNIFICANT CROATIAN WIND PARK CONNECTED TO 110
 KV TRANSMISSION NETWORK
- SCOPE OF WORK: MAIN CONTRACTOR FOR ELECTRICAL INSTALLATION
 & ERECTION WORKS
- ► YEAR: 2008-2009









Croatia: Motorways Ltd.

- CLIENT: HAC CROATIAN HIGHWAYS LTD.
- ► KEY OBJECTS FOR TRANSMISSION & DISTRIBUTION
- ► SCOPE OF WORK: **RECONSTRUCTION OF 110 KV SWITCHGEAR**
 - SS Oštarije, SS Andrijevci 110/35/10(20) kV
 - SS Bobovje 110/20 kV, SS Obrovac 35/10/20 kV
 - SS Sveti Rok, SS Mala Kapela 35/20 kV
- ► YEAR: 2003-2008









Croatia: Thermal power plant Zagreb

CLIENT: SIEMENS CROATIA

► LOCATIONS: **EL-TO ZAGREB**

SCOPE OF WORK: RECONSTRUCTION OF EL-TO ELECTRIC
 POWER PLANT

► PROJECT DURATION: 18 MONTHS









Croatia: 7 biomass cogeneration plants

- ► LOCATIONS: BE-TO CHP SISAK, OSIJEK, ĐAKOVO, SLAVONSKI BROD, GLINA 1, GLINA 2, SAVA
- ► NET ELECTRICAL OUTPUT: 1-5 MWE, HEAT: 3-15 MWT
- SCOPE OF WORK: GENERAL CONSUMPTION OF BE-TO







Can we HELB you?



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HELB Team

- HELB HAS THE TOP EXPERTS WHO, AT EXTREME WEATHER, DIFFERENT LOCATIONS AND COMPLEXITY OF OBJECTS ALWAYS SUCCESSFULLY OVERCOME OBSTACLES AND DELIVER TOP-NOTCH RESULTS.
- Our values, such as mutual cooperation, lead us to success
- WE ALWAYS PUT OUR CUSTOMER FIRST, SO HELB OFFERS A SOULUTION
 BEYOND THEIR EXPECTATIONS





Thank you



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