



REFERENCE LIST

Other fields

| Date | PLANT | COUNTRY | ACTIVITIES |
|------|---|---------|--|
| 2005 | COOLING WATER PLANT TC- Koromačno, HOLCIM | Croatia | <ul style="list-style-type: none"> - Final electrical design - Reconstruction of TS-5 - Reconstruction of compressor station - Commissioning and testing - Approval documentation |
| 2005 | Terminal for oil repumping "BEJAIA"-Algeria | Algeria | <ul style="list-style-type: none"> - Main and final design - Supervision - Transformer station 35/5,5 kV, 2 x 8 MVA - Delivery of MCC for LV motors - Delivery of hardware and software for two PLC units for multistart control system (122 DI/56 DO) - Delivery of 4 soft starters for 11 motors 5,5 kV, 140 A - Startup and commissioning |
| 2006 | Automatic control of reception, milk pasteurization, CIP station "NOVI DOMIL", VINDIJA, Županja | Croatia | <ul style="list-style-type: none"> - Main and final design - Supervision - Delivery of PLC hardware and software (720 DI/320 DO, 24 AI, 4 AO, TOUCH SCREEN) - Assembly and start-up |
| 2006 | "JANAF"- Pipeline Jadranski naftovod d.d. - Zagreb | Croatia | <ul style="list-style-type: none"> - Project documentation for reconstruction of electrical plants and control on terminals Omišalj, Sisak and Virje, and pump stations Melnice and Dobra - Technical documentation consists of: <ul style="list-style-type: none"> • Technical description and calculations • Single line diagrams for 35kV, 6kV, 0,4kV, 110 VDC plants • Arrangement drawing for 35kV, 6kV, 0,4kV, VDC plants • Wiring diagrams for 35kV, 6kV, 0,4kV, 110 VDC plants • Equipment list for 35kV, 6kV, 0,4kV, 110 VDC plants • Cable list for 35kV, 6kV, 0,4kV, 110VDC plants |

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|------|--|---------|--|
| 2006 | GRAIN MILL FARINA Mill reconstruction | Croatia | <ul style="list-style-type: none"> - <i>Electrical design</i> - <i>Fabrication of MCC for 120 motor drives</i> - <i>Delivery of hardware and software for PLC system (640 DI/ 240 DO, 16 AI/8 AO, Ethernet)</i> - <i>SCADA software with 8 process images, over 1600 tags, report generation, development of data base and connection with business software</i> • <i>Motor drives (frequency converters 12 pcs, soft starters 30 pcs. in range of 11-132 kW)</i> • <i>Control system (PLC) + SCADA</i> • <i>Low voltage distribution in 10 fields</i> |
| 2007 | FINVEST Gerovo Bio pellet factory | Croatia | <ul style="list-style-type: none"> - <i>Main and final design</i> - <i>Transformer station 20/0,4 kV, 3 x 1600 kVA</i> - <i>MCC for 200 electromotor drives</i> - <i>Hardware and software for PLC (800 DI/400 DO, 30 AI/24 AO, Profibus and Ethernet communication)</i> - <i>Workstation with 3 displays and development of SCADA software</i> |
| 2007 | GRAIN MILL KOPANICA Mill reconstruction | Croatia | <ul style="list-style-type: none"> - <i>Electrical design</i> - <i>Fabrication of MCC for 150 motor drives</i> - <i>Delivery of hardware and software for PLC system (720 DI/ 320 DO, 24 AI/16 AO, Profibus and Ethernet)</i> - <i>Delivery of workstation and SCADA software 8 process images, over 1600 tags, report generation, development of data base and connection with business software</i> • <i>Motor drives (frequency converters 12 pcs, soft starters 30 pcs. in range of 11-132 kW)</i> • <i>Control system PLC + SCADA</i> • <i>Low voltage distribution in 10 fields</i> |

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|------|--|-----------|--|
| 2008 | WOOD PROCESSING PLANT FINVEST Plant control system | Croatia | <ul style="list-style-type: none"> - Fabrication of MCC for 200 motor drives - Delivery of hardware and software for PLC system (800 DI/ 400 DO, 30 AI/24 AO, Profibus and Ethernet) - Delivery of workstation with 3 monitors and development of SCADA application <p>20 process images, over 2500 tags, report generation, development of data base and connection with business software</p> <ul style="list-style-type: none"> • Motor drives (frequency converters 20 pcs, soft starters 30 pcs. in range of 11-400 kW) • Control systems (PLC) + SCADA • Low voltage distribution in 18 fields |
| 2008 | KEK Priština, Coal mine Bardh, Excavator reconstruction and control | Kosovo | <ul style="list-style-type: none"> - Main and final design - Supervision - MCC development - Delivery of hardware and software for PLC (160 DI/90 DO, 16 AI/8 AO, Profibus and Ethernet communication) - Delivery of 10,4" touch panel - Assembly and start-up for <ul style="list-style-type: none"> • Motor drives • Control system (PLC and HMI) |
| 2009 | ELEM Skopje TG1 &TG2 for ALSTOM Croatia 15 MW steam turbine reconstruction and control | Macedonia | <ul style="list-style-type: none"> - Main and final design - Fabrication of switchgear for turbine - Delivery of hardware and software for PLC (64 DI/64 DO, 50 AI/8 AO, Profibus and Ethernet communication) - Workstation delivery and SCADA software development <ul style="list-style-type: none"> • PLC + SCADA + OP + WOODWARD control system • Special measurement system BENTLY NEVADA |

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|------|--|---------|---|
| 2010 | MILK FACTORY VINDIJA Automatic control system for pasteurization line | Croatia | <ul style="list-style-type: none"> - <i>Programming of the PLC and HMI system</i> - <i>Incorporating new functions into existing control algorithms and connecting new control panel with other panels via Ethernet</i> |
| 2011 | EXCAVATOR SRS-400 E7 Coal mine Sibovac for KEK Priština, Reconstruction and control of coal excavator | Kosovo | <ul style="list-style-type: none"> - <i>Main and final design</i> - <i>Supervision</i> - <i>Delivery of 6kv TS & LV MCC</i> - <i>Delivery of hardware and software for PLC (200 DI/80 DO, 16 AI/8 AO, Profibus and Ethernet communication)</i> - <i>Delivery of hardware and software for touch panel (10,4")</i> - <i>Delivery of intercom system</i> - <i>Delivery of video system</i> - <i>Assembly and start-up</i> |
| 2011 | BELTS WAGON BRS-1600 E Coal mine Sibovac for KEK Priština, Reconstruction and control of belts wagon | Kosovo | <ul style="list-style-type: none"> - <i>Main and final design</i> - <i>Supervision</i> - <i>Delivery of 6kV TS & LV MCC</i> - <i>Delivery of hardware and software for PLC (160 DI/72 DO, 16 AI/8 AO, Profibus and Ethernet communication)</i> - <i>Delivery of hardware and software for touch panel (15")</i> - <i>Assembly and start-up</i> |
| 2011 | UNIVERSITY OF ZAGREB (SC) Reconstruction of heating station control system | Croatia | <ul style="list-style-type: none"> - <i>Construction of a new control panel according to the existing design</i> - <i>Installation of cable trays, cables, equipotential bonding, lighting, sockets and other equipment</i> - <i>Commissioning and measurements</i> |
| 2011 | THERMAL POWER PLANT JERTOVEC for ALSTOM Croatia Design and supply of turbine panel | Croatia | <ul style="list-style-type: none"> - <i>Main and final design</i> - <i>Fabrication of electric switchgear panel</i> - <i>Delivery of touch panel and installation equipment</i> - <i>Factory testing of the panel</i> - <i>Installation of equipment in power plant</i> |

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| 2011 | MILK FACTORY VINDIJA Automatic control system for yogurt fermentation and storage line | Croatia | <ul style="list-style-type: none"> - <i>Programming of the PLC and HMI system</i> - <i>Incorporating new functions into existing control algorithms and connecting new control panel with other panels</i> |
| 2011 | GRAIN MILL FARINA Transportation line control system | Croatia | <ul style="list-style-type: none"> - <i>Main and final design</i> - <i>Fabrication of power & control panels</i> - <i>Delivery of hardware and software for PLC control system</i> - <i>Upgrade of existing SCADA system, touch panel software development</i> - <i>Installation</i> - <i>Commissioning and start-up</i> |
| 2012 | LIVESTOCK FOOD STORAGE KRMIVA Automatic control system for silos and drying plant | Croatia | <ul style="list-style-type: none"> - <i>Main and final design</i> - <i>Fabrication of power & control panels</i> - <i>Delivery of hardware and software for PLC control system</i> - <i>Software development</i> - <i>Installation</i> - <i>Commissioning and start-up</i> |
| 2012 | MILK FACTORY VINDIJA Automatic control system for Kwark cheese production | Croatia | <ul style="list-style-type: none"> - <i>Programming of the PLC and HMI system</i> - <i>Incorporating new functions into existing control algorithms and connecting new control panel with other panels</i> |
| 2012 | OIL PIPELINE JANAF PS Melnice | Croatia | <ul style="list-style-type: none"> - <i>Preliminary and main project design for replacement of 35kV electrical plant</i> |
| 2012 | OIL PIPELINE JANAF Terminal Omišalj | Croatia | <ul style="list-style-type: none"> - <i>Preliminary and main project design for replacement of 35kV electrical plant</i> |

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| 2012 | THERMAL POWER PLANT JERTOVEC for ALSTOM Croatia Design and supply of turbine panel (block 2) | Croatia | <ul style="list-style-type: none"> - <i>Main and final design</i> - <i>Fabrication of electric switchgear panel</i> - <i>Delivery of touch panel and installation equipment</i> - <i>Factory testing of the panel</i> - <i>Installation of equipment in power plant</i> |
| 2012 | THERMAL POWER PLANT KOSOVO A Ash transport system | Kosovo | <ul style="list-style-type: none"> - <i>Electrical design</i> - <i>Equipment delivery: Heating, air conditioning, Fire detection, lighting, cable protection and cable tray systems, lightning protection</i> |
| 2013 | THERMAL POWER PLANT KOSOVO B Delivery of LV MCC | Kosovo | <ul style="list-style-type: none"> - <i>Electrical design, fabrication and installation of three 0.4kv MCC in water treatment plant (WTT)</i> - <i>OCW01 – 4420x2200x600mm</i> - <i>ODF01 – 4462x2250x680mm</i> - <i>ODG01 – 8130x2250x680mm</i> |
| 2013 | <i>BARTEC Varnost</i> | Kazakhstan | <ul style="list-style-type: none"> - <i>Main and final design</i> - <i>Delivery of 7 soft-starters 6 kV, 200 A</i> - <i>Field testing, commissioning & start-up for:</i> <i>3 x Motor drives 670 kW, 6 kV</i> <i>4 x Motor drives 250 kW, 6 kV</i> |
| 2014 | GRAIN MILL FARINA Silos transportation line control system | Croatia | <ul style="list-style-type: none"> - <i>Electrical design</i> - <i>Fabrication of MCC for 80 motor drives</i> - <i>Delivery of hardware and software for PLC control system</i> - <i>Control system PLC + SCADA</i> - <i>Installation</i> - <i>Commissioning and start-up</i> |

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| 2014 | MAJOR OVERHAUL OF ST 12,5 MW KARDEMIR, KARABUK for ALSTOM Croatia Design and supply of turbine panel | Turkey | <ul style="list-style-type: none"> - <i>Main and final design</i> - <i>Fabrication of electric switchgear panel</i> - <i>Factory testing of the panel</i> - <i>Installation of equipment</i> |
| 2014 | RECONSTRUCTION OF VENTILATION SYSTEM IN HYDRO-ELECTRIC POWER PLANT, for HEP Proizvodnja d.o.o. | Croatia | <ul style="list-style-type: none"> - <i>Main and final design</i> - <i>Fabrication of power & control panel</i> - <i>Delivery of hardware and software for PLC control system and VFD drives</i> - <i>Software development</i> - <i>Installation</i> - <i>Commissioning and start-up</i> |
| 2015 | PETROCHAD - LOGONE RIVER Radio Telemetry and Solar Power System | Chad | <ul style="list-style-type: none"> - <i>Electrical design</i> - <i>Fabrication of power and control cabinets for four autonomous stations powered via solar panels</i> - <i>Delivery of batteries, solar panels, solar chargers, inverters, structures, PLC and telemetry equipment</i> - <i>Installation of system</i> - <i>Factory and functional testing</i> |
| 2016 | GRAIN MILL FARINA Mill control system replacement | Croatia | <ul style="list-style-type: none"> - <i>Electrical design</i> - <i>Change of Hitachi PLC system with Siemens distributed system</i> - <i>Profinet communication between CPU and remote IO modules</i> - <i>Profinet communication between other PLC systems in plant</i> - <i>Decrease in number of cabling in main cabinet</i> - <i>Reconfiguration of existing CITECT SCADA system</i> |
| 2016 | KOKA Varaždin – Plant for breaded meat products | Croatia | <ul style="list-style-type: none"> - <i>Replacement of electrical and control cabinets damaged in fire</i> |

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| | | | <ul style="list-style-type: none"> - Fabrication of 4 cabinets: Oven panel, Fryer panel, Gyrofreeze panel and transport line panel - Configuration of PLC systems and VFDs - Commissioning |
| 2016 | LUG – Silos and dryer facilities | Croatia | <ul style="list-style-type: none"> - Main and final electrical design - Fabrication of control and electrical cabinet - Installation of cables, cable ducts, etc. - Commissioning of transportation line and dryer |
| 2016 | Mill Pukanic – Grain storage plant | Croatia | <ul style="list-style-type: none"> - Main and final electrical design - Fabrication of control and electrical cabinet - Installation of cables, cable ducts, etc. - Commissioning of transportation line |
| 2016 | Čakovečki Mlinovi – Grain storage plant | Croatia | <ul style="list-style-type: none"> - Main and final electrical design - Fabrication of control and electrical cabinet - Delivery of hardware and software for PLC system - Delivery of workstation and SCADA application, over 700 tags, report generation, data base with connection with existing business application - Monitoring of production from two screens in command center - Installation and commissioning |
| 2016 | VINDIJA Dairy plant Modernization of control system | Croatia | <ul style="list-style-type: none"> - Optimization of control process - Change of process control from Hitachi PLC to Siemens PLC (ET200SP) - Communication with existing Hitachi PLC system - New process lines programming - HMI development |

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| 2017 | PIKO Chicken manure pellet plant | Croatia | <ul style="list-style-type: none"> - <i>Main and Final electrical design</i> - <i>Fabrication of power and control panel</i> - <i>Delivery of hardware and software for PLC system</i> - <i>Installation and commissioning</i> |
| 2018 | GALA Poultry farm silos/dryer/mixing plant | Croatia | <ul style="list-style-type: none"> - <i>Reconstruction and modernization of control system</i> - <i>Design and production of electrical and control cabinet for new silos / dryer facilities</i> - <i>Delivery of hardware and software for PLC system</i> - <i>Integration of 2 SCADA stations</i> |
| 2019 | KNEŽEVIĆ Silos and dryer facilities | Croatia | <ul style="list-style-type: none"> - <i>Design and production of electrical and control cabinet for new silos / dryer facilities</i> |
| 2019 | KOLIĆ Silos and dryer facilities and mixing plant | Croatia | <ul style="list-style-type: none"> - <i>Design and production of electrical and control cabinet for new silos / dryer facilities</i> - <i>Design and production of electrical and control cabinet for new mixing plant</i> - <i>Delivery of hardware and software for PLC system</i> - <i>Installation and commissioning</i> |
| 2020 | Čakovečki Mlinovi – Grain storage level measuring and reporting system | Croatia | <ul style="list-style-type: none"> - <i>Design and fabrication of control cabinet</i> - <i>Delivery of EX radar level sensors and transmitters</i> - <i>Delivery of hardware and software for PLC system</i> - <i>Delivery of workstation and SCADA application, report generation, data base in manager's office</i> - <i>Monitoring from operator screen in Mill control room</i> - <i>Installation and commissioning</i> |

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|------|---|---------|---|
| 2020 | VINDIJA Dairy plant Modernization of control system | Croatia | <ul style="list-style-type: none"> - Optimization of control process - Change of process control from Hitachi PLC to Siemens PLC (S7-1500) - Communication with existing Hitachi PLC system - HMI development |
| 2021 | BIĆANIĆ Mixing plant | Croatia | <ul style="list-style-type: none"> - Design and fabrication of electrical and control cabinet - Delivery of hardware and software for PLC system - Weighing and mixing application development - Installation and commissioning |
| 2021 | JOZIPOVIĆ Silos and dryer facilities | Croatia | <ul style="list-style-type: none"> - Design and production of electrical and control cabinet for new silos / dryer facilities - Delivery of hardware and software for PLC system - Installation and commissioning |
| 2021 | HPP Pueblo Whitlock Hydroelectric Power Plant | USA | <ul style="list-style-type: none"> - Production of 6 UL certified power and control cabinets - Factory Acceptance test |
| 2022 | GRAIN MILL FARINA Reconstruction of power and control cabinet CITECT SCADA conversion | Croatia | <ul style="list-style-type: none"> - Electrical design - Fabrication of MCC and control panel - Delivery of hardware and software for PLC control system and Siemens SCADA - Installation - Commissioning and start-up |
| 2022 | GRAIN MILL KOPANICA Siemens SCADA and PC upgrade | Croatia | <ul style="list-style-type: none"> - Conversion of SCADA system - Installation - Commissioning and start-up |

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|------|--|-----------|--|
| 2022 | KELEČIĆ Conversion of mixing plant Toshiba control system to Siemens | Croatia | <ul style="list-style-type: none"> - <i>Conversion of PLC/HMI system</i> - <i>Installation</i> - <i>Commissioning and start-up</i> |
| 2022 | HPP Bayang Nyalo Hydroelectric Power Plant | Indonesia | <ul style="list-style-type: none"> - <i>Production of 6 power and control cabinets</i> - <i>Factory Acceptance test</i> |
| 2022 | HPP Polemi Hydroelectric Power Plant | Albania | <ul style="list-style-type: none"> - <i>Production of 9 power and control cabinets</i> - <i>Factory Acceptance test</i> |
| 2023 | VINDIJA Dairy plant Cream line CIP, sterilization, pasteurization | Croatia | <ul style="list-style-type: none"> - <i>Design and production of control cabinet</i> - <i>PLC and HMI development</i> - <i>Commissioning and start-up</i> |
| 2023 | HPP Emas Nova Hydroelectric Power Plant | Brazil | <ul style="list-style-type: none"> - <i>Production and delivery of 2 x CUBIC Switchgears for 4900A/85kA, 1s</i> - <i>Factory Acceptance test</i> |
| 2023 | HPP Great Zimbabwe Hydroelectric Power Plant | Zimbabwe | <ul style="list-style-type: none"> - <i>Production of 6 power and control cabinets</i> - <i>Factory Acceptance test</i> |

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|------|---|---------|--|
| 2023 | HPP Nam Mit Luong Hydroelectric Power Plant | Vietnam | <ul style="list-style-type: none"> - <i>Production of 3 power and control cabinets</i> - <i>Factory Acceptance test</i> |
| 2023 | HPP Saario Hydroelectric Power Plant | Finland | <ul style="list-style-type: none"> - <i>Production of 6 power and control cabinets</i> - <i>Factory Acceptance test</i> |
| 2023 | HPP Shkopeti Hydroelectric Power Plant | Albania | <ul style="list-style-type: none"> - <i>Production of 14 power and control cabinets</i> - <i>Factory Acceptance test</i> |
| 2023 | JAVA IVANEC Solar power plant | Croatia | <ul style="list-style-type: none"> - <i>Design and production of 2 power distribution panels (800VAC, 2500 kW)</i> - <i>Design and production of 1 control panel</i> - <i>Factory Acceptance test</i> |