

ANNUAL
REPORT

2021



Managing Director's Statement

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2021

Assessment of the Overall Development of the Company in 2021

Due to the ongoing pandemic the activities of the PPA CONTROLL, a.s. group were accompanied by difficulties and constraints throughout 2021. Frequent illnesses of employees, reduced production capacity due to placing employees to quarantine, restrictions on movement and travel, especially for foreign projects, complicated logistics, difficult communication and availability of employees working from home were the facts that caused significant complications in the execution of our contracts.

The beginning of several contracts and projects was postponed to later dates, with a gradual increase in the price of inputs, especially materials and energy. It was virtually impossible to open price agreements or contractual terms and conditions, and these facts were eventually reflected in the declining margins achieved on individual projects.

During the year, however, the companies of the group in PPA CONTROLL were able to cope with the situation and the demanding financial and business plan adopted for 2021 was met at 110.9% in terms of revenue from sales of goods, own products and services and 156.5% in terms of profit before tax.

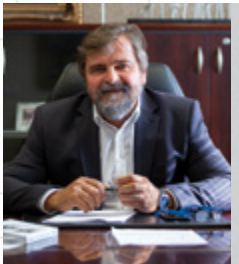
In order to achieve excellent results PPA ENERGO s.r.o. continued to focus on the contracts in energy sector, such as the completion of Units 3 and 4 of Mochovce Nuclear Power Plant. It has conducted many major contracts and technology projects on foreign markets, in particular for Samsung Engineering Magyarország in Hungary, the NEXEN TIRE project for SAMSUNG in the Czech Republic, in France the implementation continued for BUSBAR4F Società consortile a.r.l. and also for the end customer ITER ORGANIZATION France. In 2021 it continued to implement the ROOKERY incinerator project for HITACHI ZOSSEN INOVA AG and the NEWHURST project in the UK. A significant achievement for the company was a contract acquisition for TESLA, implementation of which will be going on in 2022 in Germany.

PPA INŽINIERING s.r.o. still maintains a significant position in the transport technology market. Also in 2021, the contracts of this nature, such as the ISD D1 Trnava - Horná Streda, which also had the largest share of the company's revenues, were being implemented. The second largest contract in terms of sales was the replacement of the heat source in Cukrovar Sered'. Among the foreign contracts, the company recorded the highest sales in the contract for FELTON Thermal Power Plant in Cuba.

PPA Power DS s.r.o. increased its share in the local distribution of energy and media through its own networks. In 2021 it completed an investment in road and energy infrastructure in total of 3.5 million EURO, bringing the size of the private utility networks in D1 Park Senec to more than 25 km of networks distributing electricity, gas and water, including sewage and rainwater drainage. This enables the company to distribute energy and utilities over an area of 200 ha of industrial land. The investment in infrastructure development has opened further sales of distribution capacity to end customers and the maintenance of economic results.

In 2021 the group of companies in PPA CONTROLL, a.s. expanded by a new subsidiary, LIV ELEKTRA, a.s. The primary areas of its business are the provision of services to the energy industry, particularly in the field of HV, MV and MVZ as well as in the construction, reconstruction, modernisation, maintenance and repairs of electrical equipment, substations and transformers without voltage limitations.

The following companies: PPA TRADE, spol. s r.o., FTVE 3, s.r.o. and PPA CONTROLL Magyarország operating in Hungary also contributed to the overall success of the group with their positive economic results.



Ing. Bystrík Berthoty
Managing Director

About the company

PPA CONTROLL, a. s.

General Information about the Company

Legal identity
Business name: PPA CONTROLL, a.s.
Registered office: Vajnorská 137, 830 00 Bratislava
Legal form: joint-stock company
Company ID: 17 055 164
VAT Reg. No.: SK2020459078
Date of incorporation: September 2, 1991
Stock capital: € 1,052,008

The Company is incorporated in the Bratislava 1 District Court Commercial Register Section Sa, Insert No. 159/B

Corporate Philosophy

Our successful history, as a supply and engineering company in the field of electrical systems, measurement, control, and process automation, spans over 70 years. Based on our stable financial background and active operation, we want to provide our partners with comprehensive and professional services of the top quality and through the optimal solutions. By providing professional services, we want to help our partners streamline their operations and activities, co-innovate, reduce potential risks associated with their operations, and reduce energy costs and environmental burdens. We have been consistently creating a productive work environment for our employees, focusing on professional and personal development. Our main goal is to achieve sustainable growth of the company, strengthen its stable position in the domestic and international markets, and support the company's ability to prosper in the future.

The Company's basic Values

- The company endeavours to ensure that all its employees develop their personal efforts aimed at achieving collective success and reaching it based on the following fundamental values:
- Customers – and their needs, expectations, and satisfaction are paramount
 - Guarantee – of a professional and accommodating approach and provision of top quality services
 - Development – of skills and professional growth of our employees
 - Transparency, honesty and reliability
 - Compliance – with legal, regulatory and other binding requirements of the parties interested
 - Protection – of health, environment and data
 - Readiness – and flexible response to changes

Company Milestones and History

1951	REGULA Praha founded
1958	ZPA Praha (Prague Industrial Automation Company) founded
1965	ZPA-DP Praha (Prague Industrial Automation and Supply Company Works) founded
1969	Branch office in Bratislava (ZPA-OZ) founded
1985	Elektromont, k.p. founded in Bratislava with the merger of ZPA-OZ and Elektromontážne závody Bratislava (Bratislava Electro Plants)
1990	Elektromont, s.p. in Prague and its suppliers throughout the CSFR liquidated and PPA, s.p. founded in Bratislava
1991	PPA CONTROLL, a.s. established
1997	Received certificate of quality under STN EN ISO 9001
2013	Received certificate of integrated management system under ISO 14001 – Environmental Management and OHSAS 18001 – Occupational Health and Safety
2017	Acquiring the Safety Management System Certificate according to the SCCP: 2011 standard
2019	Extension of the scope of certification according to the ISO 14001 standard - Environmental management system and ISO 45001 - Occupational health and safety management system
2021	acquisition by PPA CONTROLL, a.s. and incorporation into its holding group, achieving a certificate of information security management system according to ISO/IEC 27001.

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About the company PPA CONTROLL, a. s.

Line of Business

Studies, designs, deliveries, installation, commissioning and services in the areas of:

Instrumentation and Control Systems

- Measuring temperatures, loops of pressures, pressure differences, flows, levels, displacements and other physical variables
- Special measurements, detection of toxic combustion gases, environmental measurements
- Systems for analyzing liquids and gases
- Control valves and actuators
- Regulators and evaluation systems
- Connections to control and LV systems

Automated Control Systems

- Control systems for technological processes (DCS and PLC systems)
- Building control systems
- Systems for collecting and evaluating energy information
- Process analysis and creation of user software
- Commissioning of technologies and optimization
- System integration
- Visualization and operator control of technological processes

Electrical Systems

- LV and HV underground cable lines
- LV, HV and UHV transformer and substation
- LV cabling
- Power protection
- Building cabling
- Weak current systems (fire, intrusion, CCTV, etc.)
- Parking systems
- Voice communication
- Search and repair the faults of LV power cables (wiring)
- Search and location the ground electrical and communication lines

Switchboard Production

- 0.4 kV LV SMO switchboard (Rittal, Sarel, Profiline, Schrack enclosure)
- 0.4 kV LV switchboard for nuclear power plant conditions (SMO-S, SBO, NRS-S)
- RVB modular switchboard with withdrawable blocks (Logstrup boxes)
- System switchboards for control systems, servers and PC
- Switchboards for industrial and data communications
- Power-factor correction switchboard
- Wall-mounted NRS and NRS-P switchboard
- Control room panels and racks
- Road signs

Information and Telecommunication Systems

- Integrated light-current distributors
- Data LAN, MAN and WAN networks
- Cisco solutions
- Structured metallic and optic fiber cabling systems
- Data centers
- Search and repair the faults of communication metallic and fiber optic cables

Technological Equipment for Motorways and Tunnels

- Supply of electric power for tunnels - HV, LV, UPS, backup sources
- Tunnel lighting
- Tunnel ventilation
- Tunnel radio
- Radio connection in tunnels
- Measuring of physical variables in tunnels
- Emergency call telephones
- Measuring meteorological variables
- Traffic monitoring systems
- Traffic management systems – variable traffic signs, traffic control systems
- Security systems - rooms (fire alarm system, electrical security system, CCTV, voice alarm control)
- Technology control systems
- Integration of individual technological devices
- Operator station - control
- LED variable traffic signs – exclusive representation of the DMV manufacturer

Energy Outsourcing

- Managing power distribution and equipment
- Maintenance, repair, servicing, technical inspection and testing of electrical equipment
- Measuring and monitoring of electric power
- Supplying electricity and optimizing electric power consumption
- Audits

Comprehensive Industrial Site Management

Management and administration reports

- Preparing and reviewing budgets, records of costs and management processes, coordination of suppliers

Technical management

- Servicing, maintenance and repairs of technical facilities
- Expert inspections and technical testing of classified technical equipment:
 - electrical
 - gas
 - pressure

Non-technical site management

- Waste management, road maintenance, green maintenance, cleaning, guard service

Construction and Development of Infrastructure in D1 Park Senec

- roads
- HV and LV power lines
- gas pipeline
- water pipeline
- foul water drainage and storm sewers

Operation and Maintenance

- Warranty and post-warranty service and maintenance of all supplied systems and equipment
- Calibrations and repairs of physical and chemical measurement systems
- Calibration of temperatures, pressures and electrical quantities AC/DC
- Infrared measurements



Social Responsibility

Corporate social responsibility has continuously been an integral part of strategic objectives and business activities of the group of companies in PPA CONTROLL. We all are aware that socially responsible behaviour increases labour productivity and employee loyalty, as well as it ultimately brings long-term sustainable development and competitive advantage to the companies in the group of PPA CONTROLL.

The values, such as strict anti-corruption behaviour, respect for transparency in all financial operations, establishing good relations with customers, shareholders and business partners, creating employee-friendly working conditions as well as compliance with environmental standards are applied by the companies in PPA CONTROLL group in their daily business activities. These values are shared by the management, senior managers and all employees of the PPA CONTROLL group of companies, which in practice creates a synergy effect and a solid basis for the all-round development of the PPA CONTROLL group of companies.

In the same way, the basis for a sustainable and successful business activity of the PPA CONTROLL group of companies is the emphasis on the identification and monitoring of the needs and expectations of business partners as well as other parties involved, on the comprehensive assessment of external and internal impacts, as well as on the risk analysis of projects, the evaluation of which is reflected in the subsequent implementation phase.

Especially by finding, creating and delivering socially responsible solutions for customers and other parties involved, together with building long-term fair relationships with business partners and actively involving employees we strive to achieve a common goal and shared prosperity. We see our companies' participation in so-called „green“ projects and projects improving the level of safety in Slovakia and abroad as an important contribution of the PPA CONTROLL group to socially responsible behaviour.

Management Systems according to ISO 9001, ISO 27001, ISO 14001, ISO 45001 and SCCP

The PPA CONTROLL group of companies has identified priority principles for quality assurance, information security, occupational safety, health and environmental protection with regard to vision, strategic objectives and applicable requirements of all the parties involved. These principles are responsibly applied when performing our work activities in all business processes.

Through the personal contribution and commitment of each employee the individual companies place a high value on conducting their activities in compliance with the requirements and expectations of customers, governmental authorities, supervisory bodies and other parties involved.

Almost 25 years of the procedural approach of the quality management system and the long-term application of other management systems in the parent company PPA CONTROLL, a.s. and its subsidiaries have been a good presumption for the successful achievement of a comprehensive integration of process and legislative requirements for quality, safety, working environment and protection health of and the environment in the individual activities of the company. The above activities were completed by the issuance of the integrated certificate according to STN EN ISO 9001, 14001 and 45001 for the group of companies PPA CONTROLL. The unified approach of the managers and employees strengthens the overall contribution of the group of companies in PPA CONTROLL to socially responsible behaviour. A holistic management view by the managers and at the same time a holistic view of the implementation of the relevant processes by our employees, along with taking into account various aspects, are important steps towards achieving a high level of quality and corporate culture, safety, health, occupational and environmental protection, as well as information security in accordance with ISO 27001.

In 2021 the measures enhancing data and information protection were implemented in the business processes with the aim of increasing the overall level of information security in PPA CONTROLL. The success of the implementation steps was confirmed by obtaining a new certificate of information security management system according to STN EN ISO/IEC 27001. With these activities, we want to be closer to meeting the needs and expectations of customers and other parties involved in a more comprehensive way. By a thorough protection of data and information we want to stay amongst your trusted and dependable partners.

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Human Resources

Staff Structure

The company's HR policy in 2021 was once again focused on finding and approaching qualified workforce, their adaptation in the corporate environment, stabilising our employees and dealing with changes.

As at 31 December 2021, the companies of the PPA CONTROLL, a.s. group employed 717 employees. The Employee Stability Index increased to 72 % (the percentage of employees working with us for over 5 years out of the total number of employees). Out of the total number of employees, men account for 83 % and women account for 17 %. The average age in the company is 46 years.

The technical education of our employees and applicants continues to be crucial for us. The key positions that were most often filled in 2021 included chief fitters, heads of project implementation, electricians, and project managers.

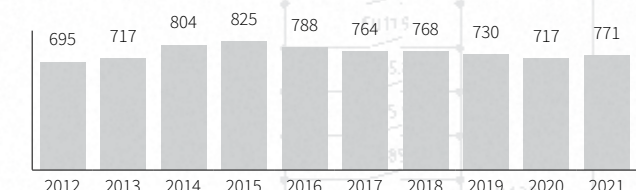
Employee Development

In 2021, the company invested 241 421 EURO in staff training, representing 312 EURO on average per employee.

Despite the challenging period that affected the whole society and the electricity sector in particular, we have learned a lot and convinced ourselves that we can flexibly respond to new and unexpected calls. PPA CONTROLL, a.s. and all its subsidiaries offer a stable working environment, 70 years of tradition, the opportunity to work on unique projects. By collaborating with schools, we offer secondary school and university students the opportunity to become part of teams working on future technologies in the energy and infrastructure industries.

PPA CONTROLL, a.s. values its employees, and we have enriched our wide range of benefits with regular vitamin and respirator packages. Health days are already a regular activity at our company, aimed at prevention and also improving awareness of health and prevention.

Number of employees in PPA CONTROLL group 2012 – 2021



Number of employees by Education

	Primary	Secondary	University
2020	5	394	318
2021	4	441	326
in % - 2021	1	57	42

Number of employees by Age

	18-29 y.	30-39 y.	40-49 y.	50-59 y.	Over 59
2020	63	185	195	186	88
2021	61	180	227	220	83

Number of employees by Gender

	Woman	Men
2020	123	594
2021	128	643
in % - 2021	17	83

Employee structure by Professions

	2020	2021
Management	26	35
Sales and Procurement	71	77
Project management	66	67
Designers, programmers	126	118
Administration	82	95
Technicians	135	128
Assembly workers	205	237
Others	13	14
Total	717	771

Company Statutory Bodies and Organizational Structure

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Executive Board

Ing. Bystrík Berthoty, Chairman

Born August 9, 1965 and a graduate of the University of Economics in Bratislava. He joined the Company in 1999. At present, he has been Managing Director since 2012 and Chairman of the Executive Board since 2015.

Ing. Ladislav Ondriš, Vice Chairman

Born November 22, 1956 and a graduate of the University of Economics in Bratislava. Between 1999 and 2014 he was Chairman of the Supervisory Board. He has been Vice Chairman of the Executive Board since 2015.

Ing. Zoltán Lovász, Member

Born April 18, 1969 and a graduate of the Slovak University of Technology in Bratislava. He joined the Company in 1999. He was appointed to his current position of Director at PPA ENERGO s.r.o. in 2009. He became a member of the Executive Board in 2012.

Ing. Marián Kolenčík, Member

Born September 19, 1967 and a graduate of the Slovak University of Technology in Bratislava. He joined the Company in 1990. He was appointed to his current position of Director at PPA INŽINIERING, s.r.o. and became a member of the Executive Board in 2013.

Ing. Erik Vicena, Member

Born November 28 May 1975 A graduate of the Slovak University of Technology in Bratislava. He joined the Company in 2010. He has held the current position of Deputy Director General for Trade Affairs since 2018. He became a member of the Executive Board in 2019.

Supervisory Board

Mgr. Darina Pavlů, MBA, Chairman

Born December 14, 1981. She graduated from the Faculty of Law, Comenius University in Bratislava, and Master of Business Administration EADA Business School in Barcelona. She has been holding the office of Chairman of the Supervisory Board since 2018.

Ing. Karol Pavlů, Vice Chairman

Born December 19, 1941. Graduate of the University of Economics in Bratislava. In the past, he held offices in several bodies of the Company: chairman of the Supervisory Board (since 1991), vice-chairman of the Board of Directors (since 1996), vice-chairman of the Supervisory Board (since 2002), and chairman of the Supervisory Board (since 2014). He has been holding the office of Vice Chairman of the Supervisory Board since 2018.

PhDr. Darina Pavlů, Member

Born June 4, 1946 and a graduate of the Faculty of Philosophy at Comenius University in Bratislava. She was a member of the Supervisory Board since 2005, the vice-chairman of the Supervisory Board since 2012, and since 2018, she has been a member of the Supervisory Board.

Senior Management

PPA CONTROLL, a. s.

- Ing. Bystrík Berthoty**
Managing Director
- Ing. Erik Vicensa**
Deputy CEO for Business Affairs
- Ing. Marta Kramárová**
Finance Director
- RNDr. Viera Cehláriková**
Management Systems Director
- RNDr. Valéria Kormanová**
Human Resources Director
- JUDr. Marek Jurina**
In-house Legal Counsel

Subsidiary Company Management

PPA ENERGO s.r.o.

- Ing. Zoltán Lovász**
Executive Director
- Ing. Katarína Krchnáková**
Finance and Human Resources Director
- Ing. Peter Spilý**
Commercial Director
- Ing. Lukáš Dubrovay**
Technical Director
- Ing. Peter Špaňo**
Production Director
- Ing. Miloš Glasa, PhD.**
Director of the Project Management Department
- Mgr. Roman Gonda**
Director of the Procurement and Administration Department

PPA INŽINIERING, s.r.o.

- Ing. Marián Kolenčík**
Executive Director
- Ing. Igor Jamnický**
Director of Traffic Technology Department
- Ing. Karol Letko**
Foreign Engagement Director
- Kvetoslava Smejová**
Finance and Human Resources Director
- Ing. Roderik Gröne**
Assembly Director
- Ing. Stanislav Uhlár**
Technical Director

PPA Power DS s. r. o.

- Ing. Roman Nemček**
Executive Director
- Peter Hatina**
Director of Facility Management Department
- Ing. Michal Kolimár**
Director of Energy Distribution Department
- Ing. Eva Turňová**
Director of Economic Department

LiV ELEKTRA, a. s.

- Ing. Peter Zajac**
Executive Director for Economy and Business
- Martin Latečka**
Executive Director for Production
- Ing. Pavel Proksa**
Sales Director
- Roman Rybár**
Construction Director

PPA Power s. r. o.

- Ing. Roman Nemček**
Executive Director

PPA TRADE, spol. s r. o.

- Ing. Rudolf Chochula**
Executive Director

PPA SLAVUTIČ KYJEV, s. r. o.

- Ing. Peter Gašparových**
Executive Director

PPA CONTROLL CZ, a.s.

- Mgr. Darina Pavlů, MBA**
Executive Director

PPA CONTROLL Magyarország Kft.

- Ing. Tomáš Varga**
Executive Director

References

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Energy

Slovenské elektrárne a.s. Bratislava,
Jaslovské Bohunice Nuclear Power Plant V-2

Power Plant Units 3 and 4

- Replacement of accumulator batteries used for power supply of NPP V-2 safety systems (system devices that ensure the liquidation of primary circuit accidents and after-cooling of the reactor) - preparation of project documentation, installation, testing and commissioning
- Replacement of batteries 1,2EE04, 14, 05 and diesel generator station
- Innovation of dP measurements at primary circulation meter - replacement of sensors, valves and valve sets
- Innovation of computer stations of the Technological Computer System for direct measurement and processing, evaluation, archiving and visualisation of technological data from the secondary and primary circuit of the NPP and for communication with other information and control systems - development of technical and project documentation of equipment and components, their dismantling, assembly and testing at Units 3 and 4 of the NPP V2
- Change of the electrical supply of the Simatic control system ensuring the measurement of parameters in the technical water system
- Replacement of electrical protectors with new digital protectors on 13 pins of 6kV safety system switchgear
- Replacement of obsolete secondary instruments of temperature measuring circuits with resistance thermometer
- Transition cabinets for TJ and super emergency supply pumps (SESP) - preparation of project documentation, execution of works
- Supply of 400kV 1GB and 2GB substation switchgear - preparation of project documentation, supply, installation, recovery, tests
- Replacement of obsolete Gateway PAMS - preparation of project documentation, supply, installation, revival, tests • Replacement of lockable control pushbuttons to ensure functionality and reliability of control and operation of 6kV electrical circuits of switches in non-system switchgear of pump-filter station PFS Pečeňady

- Implementation of a representative full-scale simulator for NPP Jaslovské Bohunice
 - Delivery of technological computer system for the simulator - ensures collection, processing, archiving and visualization of technological data obtained from the simulator
 - Manufacture and assembly of panels and consoles of the simulator
- Replacement of 0.4 kV circuit breakers of ARV type with Siemens and Schneider circuit breakers - development of the implementation project and DSV, delivery, implementation

Mochovce Nuclear Power Plant

Mochovce NPP - Units 1 and 2

- Reconditioning of lights installation in room No. A201/1 and A201/2 in hermetic zone
- Assistance in repairs of electrical equipment to the extent of routine and general repairs during GO 2020-2022 - electric motors, generators, servo drives, distribution equipment, transformers, wiring, protection elements
- Repair of cabling for JEC temperature measurements - repair of cabling, supply of new temperature sensors and materials
- Replacement of the original and supply and installation of new instrumentation and field instrumentation for Units 1&2
- Modification of the fuel leak control system EMO12 - implementation project documentation ICS, cabling, operational power distribution system
- Modernization of 2xTG 250MW, cabling, and wiring works for control system TCS and HR, units 1&2
- Modification of ICS, part of the connection to the cooperating TCS systems, replacement of pressure sensors for the vacuum corrector in units 1&2
- Replacement of H2SO4 dosing pumps for block condensate treatment
- Update of the CPL-SIS documentation for Units 1 and 2 and the Mochovce NPP simulator
- Reassessing the classification of ICS equipment - engineering, supply and implementation, testing
- Modification of pump bearing cooling, removal of embedded cooling circuits and modification of electrical supply to boron VT pumps - engineering for ICS and electrical section, execution, testing
- Groundwater level measurement in boreholes HGM1,2 - engineering, supply and implementation, testing
- Addition of water temperature measurements on cooling towers - engineering, supply and implementation, tests

References



Control Room EBO V2



Nuclear Power Plant
Mochovce



Project ITER



Thermal power
plant in Martin

Completion of Units 3 and 4 at Mochovce NPP

- Designing and engineering activities for parts ELE and ICS
 - for the nuclear island,
 - for the conventional island
 - project documentation, on-site verification of documentation
- Implementation of the E05 Project – General electrical part – engineering, supply, installation, and commissioning of the following own consumption NPP equipment – 6 kV encapsulated conductors, 6/0.4 kV transformers, 6 kV own consumption switchboards, 0.4 kV sectional switchboards, 0.4 kV auxiliary switchboards (MCC – Motor control centres – including production), 1st category secured power system (rectifiers, converters, inverters, batteries and UPS), control and diagnostic system for power supply dispatching at the central electrical control room, generator protection and outlet of power and protection of 110kV back-up power substation
- Reactor protection system (RRCS) – supply and installation of cabling
- EXCORE system – supply and installation of switchboards
- Neutron flux monitoring system – installation of switchboards and technological parameter sensors
- Implementation of the JOB12 project – engineering, supply, installation, and commissioning of selected ICS parts and the electrical part for the nuclear island – sensors reading technological parameters, sampling system for sensors reading technological parameters, sealed tube bushings, sealed cable ducts, cabling, analysers of technical and technological parameters, main and secondary cable routes, cabling
- Implementation of the E06ER project – electrical installation works and installation of ICS for the completion of the emergency diesel generator (Unit 4 of the MO34 NPP), installation of main and secondary cable routes, laying and connection of cabling (HV, LV), installation of sensors, switchboards (6kV, 0.4kV, 24V, protection elements, measurement and synchronization), transformers, impulse lines, earthing, support for commissioning
- Archive of technical documentation - elaboration of the project for the building permit
- Supply and installation of indoor HV instrument transformers
- Adjustment of separating power cables in cable routes
- Modification of cables and cable routes including modification of pullboxes in SO 490/1-02 Engine room
- Replacement of thermocouples and displays on steam separators and superheaters at Unit 3 - engineering, supply, installation, testing

Trenčín Hydroelectric Power Plant (HPP)

- Reconstruction of turbine controllers at HPP Domaša, HPP L. Mara, HPP P. Bystrica, HPP Sučany, HPP Ladce - dismantling of the original and installation of new turbine controller switchboards, sensors, cable routes and cabling, addition of components to the existing switchboards and modification of their wiring, tests

Jadrová a vyráďovacia spoločnosť a.s. Bratislava,

- Project of the International Fund for NPP V-1 Decommissioning Support – **D4.1 Modification of the power plant and installation of new equipment** - installation of the electrical part and I&C system according to the RPD 1-6, including deliveries
 - heavy-current distribution system – power supply and operations
 - technological process management system
 - light-current distribution system and structured cabling
- Project **D4.4C of the International Fund for NPP V-1 Decommissioning Support – Dismantling of systems in the controlled zone of NPP V1** elaboration of an implementation project for the I&C part, power distribution, lighting, EFS and implementation work
- Completion of spent fuel storage capacities VJP – temporary power supply for cranes, operational power distribution

Project ITER (France) – International Fusion Experimental Reactor

Electrical installation work - installation of electrical equipment including water cooled encapsulated conductors, fast charging units and associated equipment, busbars and apparatus, installation of cabling and instrumentation

Installation of cabling - laying and termination of 204 pieces of 66 kV cables (more than 51km) and 108 pieces of 22 kV cables (more than 41km) for the pulsed power network (PPEN) - supplying the fusion reactor technologies (66kV cables from the 66kV substation and 22kV cables providing the connection between 400kV transformers and 22kV high voltage switchgear

Supply of LV switchboards for TOKAMAK Cooling Water System 1st Plasma to the extent:

- Design and manufacture of a test sample assessed in a laboratory in France to a magnetic induction of 21mT
- Manufacture and supply of switchboards
- Support at launching

NPP Temelín (Czech Republic)

- Manufacture and supply of switchboards for technology control
- Manufacture of power distribution boards for technology power supply

NPP PAKS II (Hungary)

- Manufacture and supply of switchboards for the power supply network of temporary wiring
- Electrical installation work on the temporary wiring project

Martinská teplárenská a.s.

Greening of the company – increasing energy efficiency and end of coal operations

Technological part:

- Supply and installation of cogeneration units
- Supply and installation of hot water boilers
- Supply and installation of duct pipes
- Supply and installation of flue gas exhaust system
- Supply and installation of technologies for electrical power output
- Supply and installation of LV and HV distribution systems
- Supply and assembly of low voltage switchboards
- Supply and installation of technological process control systems
- System programming

Construction part:

- Construction of a new building with a machine room for cogeneration units
- Complete reconstruction of the building for the hot water boiler house
- Delivery and assembly of steel service platform structures and pipeline and transport bridges
- Supply and installation of technological equipment for gas leak detection, EFS, and camera systems
- Supply and implementation of underground distribution and sewerage systems
- Construction of roads and paved areas

References



SS 400 kV
Spišská Nová Ves
power transformer
400/110 kV 250MVA



SS 400 kV
Spišská Nová Ves
tertiary winding of
power transformer



SS 400 kV
Horná Žďaňa
AIS 400 kV substation



SS 400 kV Levice
power transformer
400/110 kV 250MVA

Západoslovenská distribučná, a.s.

R8103 Ostredky – Replacement of Transformer T101

In the existing R110/22kV Ostredky substation in Bratislava, there was a new site constructed with a new T101 110/22kV 63MVA transformer installed in an ultra-low noise („ULN“) design, with the corresponding modification of technology and the induced construction modifications.

Civil objects

- 110 kV substation
- Addition of main and auxiliary steel structures
- Transformer site
- Building for common operations
- Site lighting
- Cable ducts
- Rough and final landscaping
- Adjustment of PSN parameters

Technological objects

- PS04 Transformers
- PS10 22 kV switchgear
- PS31 Electrical protections
- PS32 Control and information system
- PS33 Balance and billing measurement
- PS50 Own consumption
- PS60 Link to ASDR

R8135- Reconstruction of SS Nové Mesto nad Váhom

Comprehensive reconstruction of 5 bays of 110kV substation in order to ensure unmanned operation of the substation and its reliable remote control from the respective control rooms (RC HV and RC VHV) by necessary modifications of the existing control and information system in all parts of the substation (R110kV, R22kV, transformers T101, T102, own consumption). Modifications of the substation's technological equipment with reliable electrical drives and switching elements, safety, protection, automation and signalling equipment. The prerequisite for remote control is the comprehensiveness of information, i.e. signalling, control and measurement of all necessary equipment, the possibility of remote diagnostics and specification of automation components, ensuring the reliability of data transmission between the substation and the control room, as well as fire and safety protection of the building itself. The existing ES was replaced by a new 110/22 kV SS.

Civil objects

- Medium-voltage cable lines 22 kV
- 110 kV substation
- Transformer and Petersen coil stand
- Operational building
- Outdoor lighting
- R110 kV lighting
- Lighting of transformers and Petersen coil
- Access road
- Inner communications
- Cable ducts
- Rough landscaping
- Final landscaping
- Outer fencing
- Modification of the outer fencing of the site
- Inner fencing
- Demolition works
- Monitoring of maximum levels
- Intrusion alarms
- Fire monitoring system
- Rainwater drainage
- Wastewater sewerage
- Water connection

Technological objects

- PS01 Dismantling of technology
- PS04 Transformers and reactors
- PS09 110 kV substation
- PS10 22 kV switchgear
- PS31 Electrical protections
- PS32 Control and information system
- PS33 Balance and billing measurement
- PS40 Main earthing network
- PS50 Own consumption
- PS60 Link to SCADA system

Slovenská elektrizačná prenosová sústava, a.s.

Renewal of 220 kV substation in Sučany

This construction was important in terms of maintaining the operation of the 220 kV SEPS system until 2025. The reconstruction improved the technical parameters of the 220kV substation, ensured higher reliability of operation and reduced its operation and maintenance costs. The 220kV substation in SS Sučany is an interconnection energy hub for 220kV overhead distribution lines (V271, V273, V281, V282) and transformation of 400/220kV and 220/110kV.

Civil objects

- Demolition works
- Rough landscaping
- Final landscaping
- Outdoor lighting
- Earthing (HUS)
- Foundations under main steel structures (main and supporting) for 220kV substation
- Cable ducts
- Safety fencing

Technological objects

- PS 08 Substation 220 kV
- PS 30 Control Room

Technological object PS 08 - substation 220 kV:

- Dismantling equipment in all the fields of the 220 kV substation, including the supporting steel structure
- Replacement of the main and auxiliary busbar disconnectors and outlet disconnectors, replacement of circuit breakers and supporting insulators and selected instrument transformers. Replacement of air-operated disconnectors and air-operated circuit breakers for motor operated disconnectors and SF6 gas insulated circuit breakers in bays No. 1 ÷ 7 of the 220 kV substation.
- Voltage measurement on busbars W1 and W2 in the bay No. 01A R220 kV
- Replacement of anchor insulator hangers of busbars W1, W2, W5
- Replacement of anchor insulator hangers in bays ADA01-07
- New equipment cable routing
- New technology connection to main earthing network

References



Planta Centro,
Venezuela



Installation of
a turbine
in Felton Power Plant
in Cuba



Visualisation of
TCS -secondary circuit



Revision of
primary circuit

Power plant Planta Centro, Venezuela

Reconstruction of 400 MW boiler No. 5 - EPC CONTRACT

- 420 kV unit outlet (surge arresters)
- Transformers 30 MVA 5BT01, 5BT02
- Generator outlet and zero
- Generator excitation system
- Electrical protection and measurement, MicroSCADA
- HV block substation
- LV block substation
- Subordinate +6.1m substation
- Subordinate water treatment distributor
- Subordinate pumping station distributor
- Earthing and lightning conductors of technological structures
- Lighting and socket wiring of technology
- Sources and distribution of DC voltage
- Diesel generator

Thermal Power Plant Felton, Cuba (EPC contract)

- Delivery of complete implementation documentation for the construction
- Supply of new boiler parts, burners, flue gas fans, blowers, air heaters, necessary valves and accessories
- Supply of high- and low-pressure turbine parts including accessories, such as the turbine control system, lubrication system, vibration monitoring and other necessary peripherals
- Supply of the generator rotor including oil, gas and water lines
- Supply of automation, which includes the control system, supply of complete instrumentation for the boiler room and machine room, supply of complete assembly material
- Supply of the electrical part, including the supply of the main AC and DC switchgear, light switchgear, DC batteries, mains synchronisation, high voltage protectors, necessary cabling and other additional material
- FAT testing of selected types of supplies for dispatch
- Technical assistance during installation

Maintenance, Repairs and Equipment Inspection

Slovenské elektrárne a.s.

- maintenance and repairs of ICS and ELEKTRO - NPP V-2 Jaslovské Bohunice
- maintenance and repairs of ICS and ELEKTRO - NPP Mochovce 1,2
- Overhaul of visualisation PCs and central server at Diesel Generator Station
- Servicing ICS and ELEKTRO equipment and mechanical parts of the equipment at the transfer stations of the Central Heat Supply
- Preventive and corrective maintenance of signalling system of the fire door opening at NPP V2
- Modifications, updating and engineering support of the software and corrective maintenance of the hardware of the technological computer system (TCS)
- Repair of ICS equipment for the information system of the generator in Jaslovské Bohunice
- Servicing, repair and maintenance of equipment of the controlled input system at Mochovce NPP Unit 3,4
- Diagnostics and servicing of GESTRA electrical condensate diverters for SE-EMO
- Diagnostics and servicing of GESTRA electrical condensate diverters for SE-EBO
- Corrective repairs and maintenance of mechanical equipment in local and detached CZT stations
- Corrective maintenance of RS Simatic S7 installed in technological units in SE EBO
- Corrective repair of RS Simatic S7 and its operator stations OS1-OS4
- Performance of post-warranty service repairs of non-block control systems - NPP Mochovce 1,2
- Addition and relocation of temperature sensors in the rooms of AKU batteries, SW modification of the control system
- Change of the ranges of signals entering the TCS from the follow-up project
- Corrective maintenance of the process computers of the primary and secondary circuit controller system

Jadrová a vyradovacia spoločnosť a. s.

- Repairs and maintenance of electric equipment
- Repairs and maintenance of ICS

Other industry

- **Bekaert Hlohovec a.s.** - service and revision works on the plant
- **NAFTA a.s.** - framework contracts for the performance of professional inspections and professional tests (PIPT) of LV and I&C technical equipment in object classes C5 (objects intended for exploration and production of oil and flammable natural gas, storage of gases or liquids in underground spaces and natural rock structures) on the basis of the authorisation under the Mining Act No. 51/1988 Coll.
- **NAFTA a.s.** - framework contract for the performance of revisions of selected technical electrical equipment in 2021
- **DUSLO a.s.** - Waste Incineration Plant and IRGANOX - Service contract for the YOKOGAWA control system - emergency standby, preventive maintenance and comprehensive maintenance of the control system
- **DUSLO a.s.** - Service repairs on electrical and I&C equipment
- **NOVARES Slovakia Automotive** - Servicing of reactive energy compensators
- **Fortischem a.s.** - Maintenance and performance of periodic inspection of PIPT (professional inspections and professional tests) during outage of 110kW substation

References



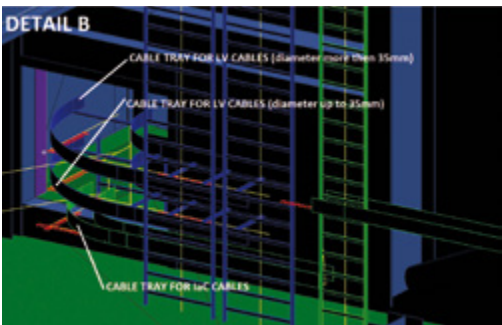
Car battery
factory in Göd



Incinerator
Rookery South
in Great Britain



Incinerator
Newhurst
in Great Britain



Modelling cable
routes in
BIM for Incinerator
Newhurst
in Great Britain

Industry – Abroad

Car battery factory, Göd (Hungary)

Electro implementation to the extent of delivery and assembly of equipment and materials, testing and inspection for commissioning of the supplied equipment

- installation of cabling and lightning conductor
- light current switchboard production including temporary on-site switchboards
- light current and heavy current switchboards
- main and emergency lighting system

Car battery factory, Komárom (Hungary)

Implementation of the electrical part, including

- installation of cable routes, installation of structured cabling, connection of technologies
- supply and installation of electrical and light current switchboards and switchboards for lighting
- light current distribution systems for I&C system and fire signalling systems, CCTV
- installation of inlets for air conditioning units, installation and connecting of temporary wiring switchboards

Factory for car battery components, Környe (Hungary)

Installation of ELEKTRO and ICS equipment, installation of main and secondary cable routes, laying and wiring of cabling, manufacture of LV and light-current switchboards, wiring of technologies

Factory for car battery components, Tatabánya (Hungary)

Implementation of the electrical part to the extent of:

- Manufacture and supply of PLC switchboards for Building management system
- Supply and installation of cable routes, cables and connection of process equipment in the process part for production lines E-H and C-D.

Production plant for biodiesel, Komárom (Hungary)

Implementation of the electrical part to the extent of supply and installation of equipment and materials, complete tests, revisions and tests and commissioning of the supplied equipment

- Production of LV switchboards
- Equipment for explosive environments
- Heating cables for pipelines
- Measuring instruments on tanks
- Main and emergency lighting
- LV and HV wiring

Project Incinerator ROOKERY SOUTH (Great Britain)

Engineering activities and electrical installation works on the project for construction of a recovery plant for municipal and commercial solid waste (545,000 tonnes), with an output capacity of 60 MW of electricity, in the scope of:

- elaboration of the detailed design for the ELECTRICAL part, including 3D model
- installation of ICS equipment, supply and installation of main and secondary cable routes, earthing
- laying of HV, LV, I&C and communication cables (bus and fibre optic) including their connection
- revisions

Project Incinerator NEWHURST (Great Britain)

Engineering activities and electrical installation works on the project for construction of a recovery plant for municipal and commercial solid waste, in the scope of:

- elaboration of the implementation project for the ELEKTRO part, including 3D model
- manufacture, supply and installation of junction boxes
- installation of encapsulated conductors, supply and installation of main and secondary cable routes, earthing, instrumentation, components, impulse lines
- laying of HV, LV, communication cables (ICS and optical fibre) including their connection
- sealing of fire-protection transitions in E-houses and ducts
- cable testing in accordance with BS 7671
- engineering support during the execution of the work
- drawing up of the actual condition after implementation

Project NEXEN TIRE (Czech Republic)

Engineering activities, supply of materials, installation of wiring and recovery on the project of constructing the plant for tires production, in the scope of:

- elaboration of the implementation project for the ELEKTRO and ICS part
- supply and installation of temporary site wiring, switchboards, cabling, lighting, earthing system
- installation of HV switchboards and transformers 6kV and 22kV, supply and installation of HV cabling, PIPT (professional inspections and professional tests)
- supply and installation of LV switchboards, cable routes and cabling, PIPT
- supply and installation of CCTV system and compressed air system and cabling, installation of sensors and SCADA system, PIPT
- supply and installation of light switchboards and cabling, installation of lights, supply and installation of lightning conductor

Derby&Derbyshire - waste incinerator (Great Britain)

Supply and installation of electrical wiring:

- Manufacture, supply and installation of switchboards, junction boxes, switch boxes
- Supply and installation of UPS 110V DC and 400V AC
- Supply and installation of armoured cables, cable support systems for low voltage distribution, instrumentation and fibre optic networks
- Testing of cable systems, instrumentation and optical networks
- Engineering support for design and installation
- Preparation of documentation of the actual state

References



Duslo Šaľa



Refinery Slovnaft
in Bratislava



Nafta, a. s.



Water slalom complex
in Liptovský Mikuláš

Industry – Slovakia

Duslo, a.s., Šaľa

- SW modifications and tests - supply of services related to the inspection and modifications of SW control systems at plants after shutdown reconstructions
- Replacement of HV equipment HTR I and HTR II - supply of materials and services (preparation of project documentation, installation, tests, PIPT (PROFESSIONAL INSPECTION AND PROFESSIONAL TESTS), official test) associated with the refurbishment of 8 pcs of HV vaults at HTR1 and 2
- Supply of electrical and ICS within the action „Replacement of elevator H103“ - supply of material and services (assembly, tests, PIPT, SIEMENS SIMATIC RS software + visualisation) related to the renewal of elevator H103
- Cybersecurity of the RS, part of the Assembly of the structure for the KB - supply of material and services (preparation of the project documentation, material, assembly, tests, PIPT) related to the implementation of the cybersecurity of the control system
- Reconstruction of line control in PEIKO - supply of material and services (assembly, tests, SIEMENS SIMATIC RS software) related to the renewal of 2 OMRON PLCs
- New boiler K8 - alignment of NOx emissions with legislation – elaboration of the implementation project with annexes for the building permit – general supply of the K8 boiler including construction and other professions – comprehensive and functional tests, test operation, official tests, guarantee performance test – actual design, accompanying technical documentation
- Repair of switchboard in building 13-09 – processing project documentations (implementation and actual state), material delivery, disassembly, assembly, tests, PIPT (PROFESSIONAL INSPECTION AND PROFESSIONAL TESTS)
- Alignment of NOx emissions with legislation - part: Upgrade Control System K5, K6, K7 - RPD +DSV processing, material supply, switchgear manufacturing, dismantling, assembly, construction modifications of the heating plant control room, SW RS YOKOGAWA, tests, PIPT
- Upgrade of diagnostic system SYSTEM1 for ČP4+KD3+KD2 -

- processing of RPD +DSV, material supply, modification and completion of switchboards, dismantling, assembly, tests, PIPT
- Distribution boxes Scame, Rittal - material supply
- Cybersecurity of control systems - extension and assembly of the structure for KB - processing of RPD +DSV, material supply, production of switchboards, modification and supplementation of existing switchboards, disassembly, assembly, tests, PIPT
- Replacement of K5 boiler burners - SW modification of RS - RPD +DSV processing, material supply, switchboard production, disassembly, assembly, SW RS YOKOGAWA, tests, PIPT

Slovnaft, a.s.

Construction of the Ethylene Storage Tank

- Supplementing the existing lightning conductor of pipe bridges and supplementing the earthing of buildings and construction objects - supply and installation of cabling, supply and installation of cable routes, supply and installation of fibre optic cabling, tests and trials
- Construction of cable routes for HV and LV distribution
- Supply and installation of cabling, supply and installation of lights, supply and installation of outdoor lighting, connection of existing HV and LV switchgear, tests and recovery, inspection reports
- Air Cooler Wiring - execution of electrical and ICS part, preparation of RPD and DSV, installation of ICS and electrical switchboards, installation of cabling and lightning conductor, PD-MSA control system
- Centralization of HRP7 command centre - supply and installation of cabling, supply and installation of cable routes, supply of switchboards

POZAGAS a.s

- Installation of pressure transducers on the intermediate columns of selected ZS6 probes - project documentation and execution of the work
- Supply and installation of actuators on GU MS Láb IV (HAZOP) - delivery, installation, tests
- Installation of pressure transducers on the intermediate rings of groups of selected ZS6 probes - 2nd stage - project documentation and the work execution, realization of pressure transducers replacement and completion of measurements with connection to technology

- Extension of RS MS Láb IV with RS safety functions - increasing the safety of the operated equipment
- Reconstruction of monitoring and level control of sprayed TEG from RK1AB - ensuring the transmission of new signals to the control systems and the control centre

Nafta a. s.

- Overhaul and modernisation of compressor unit TK8 - preparation of project documentation for the electrical part
- Reconstruction of the equipment of I&C centres of the 3rd construction of PZZP Láb - replacement of converters, supply and installation of cabling and LV switchboard, tests
- Addition of the control stations with pressure sensors on the probes of the 3rd construction of PZZP Láb - elaboration of the project documentation, delivery of materials and electrical installation works
- Dismantling and installation of EFS at ZS3 and ZS4 - elaboration of project documentation, supply and installation of EFS, tests
- Reconstruction of LV wiring of probes ZS1 - preparation of project documentation
- Replacement of EFS detectors at ZSG3 - preparation of project documentation, supply and installation of EFS, tests
- Supply of LV switchboard for TK1-6 - supply and installation of switchboard according to the project documentation, supply and installation of cabling, tests

Reconstruction of underground fuel storage in Zemianske Kostolány

- Supply and installation of PRS and low-current distribution in PS01 - Leakage indication in T53-60
- Supply and installation of I&C for air conditioning
- Temporary lighting of tunnels under the storage facilities during construction

Slovenská kanoistika – water slalom complex in Liptovský Mikuláš

Reconstruction and modification of the object on the Váh River - the electrical part, the implementation includes the development of project documentation and delivery of the HV transformer station, LV switchboards and LV wiring, measuring and control system for monitoring and controlling the valves position, water level and pump performance

References



U.S. Steel Košice



Mondi SCP
Ružomberok



Production plant
Minebea



Paint shop
Jaguar Land Rover

U. S. Steel Košice

Repair of electrical installations, I&C and auxiliary drives for turbocharger TD5

- Supply and installation of internal wiring, cable support systems
- Supply and installation of rotor actuator, temperature and pressure sensors, electro-pneumatic actuators in explosive atmospheres
- Supply and installation of LV switchgear and control system with Symatic S7 visualisation

Reconstruction and modernisation of the boiler house Stage 1 - Boiler K7

- Supply and installation of internal wiring and cable support systems
- Supply and installation of lights and electrical equipment
- Supply and installation of LV switchboards
- Supply and installation of central battery system

Repair of RS1V and RS2V control on URS

- project documentation preparation
- Supply and installation of new pressure and temperature sensors, replacement of actuators for RS1V and RS2V
- Supply and installation of control cabinets for RS1V and RS2V actuators
- Wiring of RS1 and RS2 actuators in the substation.
- Reconstruction of field no 3 in the control room
- Complete replacement of cables and cable routes

Dust removal from the charred coal system at VKB 1 and VKB3

- Supply and installation of indoor and outdoor lighting and socket wiring
- Supply and assembly of cable lines
- Installation of switchboards and local control cabinets
- Supply and assembly of lightning conductor
- Supply and installation of I&C cabling
- Supply and installation of an electric fire alarm system
- Commissioning, inspections, participation in testing

Repair of switchboard RM071 for EN2 and cable rooms

- project documentation preparation
- Disconnection and dismantling of the original RM071 switchboard
- Dismantling of original cabling and fire barriers
- Supply and installation of a new RM071 switchboard
- cabling connection and restoration of fire barriers
- CHÚV Heating Plant – repair of the cable space under substation R013
- Inspections, tests, training

Mondi SCP a.s., Ružomberok

Investment project ECO plus PM19

- Technological wiring project – supply and installation of cable routes, cabling, socket, lighting circuits and additional 43 pcs of lightning protection conductors
- Building electrical project – supply and installation of cable routes, cabling, socket, lighting circuits and lightning protection for PM19 in buildings SO24AB, SO24C, SO24E, SO24H and SO24J, including supply of lighting switchboards, commissioning, and expert inspection and testing
- Supply and installation of cable routes, cabling, socket, lighting circuits, and lightning conductor for PM19 shelter SO24I, including supply of lighting switchboard, commissioning and expert inspection and testing
- New container for white lye – electro and ICS parts
 - connection of technological equipment, manufacture and installation of new switchboard, installation of frequency converters, supply and connection of cabling, supply and installation of cable routes, supply and installation of heating cable
 - connection of field instrumentation, manufacture and supply of the pooling cabinet, supply and laying of cables, supply and installation of cable routes, supply and installation of a new air distributor and air distribution lines for valve control
 - supply and installation of lights for the building
- “Cooler Update” – electro-installation work during reconstruction of cooling system in the automatic evaporator

Minebea Slovakia s.r.o.

Production plant for mechatronic drives UB

- Supply and installation of two substations
- Supply and installation of HV distribution lines
- Supply and installation of external LV distribution lines
- Supply and installation of external low-current distribution lines
- Supply and installation of public lighting
- Supply and installation of lighting and socket installation
- Supply and installation of low-current installation
- Supply and installation of heavy-current distribution systems for technology
- Supply and installation of EFS
- Supply and installation of HSP
- Supply and installation of CCTV system

DANUCEM Slovensko s.r.o.

- Reconstruction of backup power supply in the command centre - increase of operational safety - electrical installation works, modification of switchboard EP0-1M1, EP0-1M1.A1 and EP0-1M2, delivery of switchboard EP0-1M3, installation of new UPS
- Modification of mixing station PC1 - supply of electrical installation material, execution of electrical installation works
- Project K22-BW1 - electrical installation works - addition of LV switchboard, dismantling of radar sensor, supply of material, cabling, dismantling and installation

Slovenská elektrizačná prenosová sústava, a.s.

- Innovation of ASZD measuring sets - unification and innovation of SEPS commercial measuring system metering sets in 38 objects of the automated data collection system within the territory of the Slovak Republic, including the relevant necessary specification of the main and backup headquarters of ASZD SEPS in the administrative buildings in Bratislava and Žilina

TRANSPETROL, a. s.

- Reconstruction of H101A, H101C and H102A tank fittings in PS4 Tupá - elaboration of project documentation for the electrical part
- Reconstruction of switchboards RM416, RU2 a RU4 in PS4 Tupá

FORTISCHEM a. s.

- Operational power distribution and I&C for holding tanks - installation of a pumping and monitoring system for newly built holding tanks used for filling railway and road tankers with chemicals

KIA MOTORS Slovakia s.r.o.

- Installation of electrical connection for new USB robots in SO300 LAKOVŇA
- Installation of electrical connection for new robotic station and manipulator in building SO400 ASSEMBLY SHOP

Jaguar Land Rover Slovakia s.r.o.

- Lakovňa JLR Nitra - project development and installation of new TAP OFF BOXES on the existing BUS BAR and modification of switchboards PTS MDB-LV-002 and PTS MDB-LV-004 to connect the new line

References



Administrative building
Continental Matador
in Púchov



Eurotalc
- talc treatment



Hall FELS in Ilava



Ikea Industry

Porfix – pórobetón, a.s.

- New gas boiler house - supply, dismantling, installation and software works - part of electrical, I&C and ICS - construction of complete wiring, lighting, signalling and communication elements with a large share of innovative technologies (LED lights, DALI, intelligent light control system)

Continental Matador Rubber s. r. o., Púchov

- Supply and installation of electrical equipment (HV switchboards, transformer station, HV transformer)
- Increase of the T28 transformer substation capacity

Eurotalc, a.s.

Talc treatment in Gemerská Poloma

- Supply and installation of complete heavy current and low-current power wiring in six production halls and one administrative building
- Realization of HV connection
- HV relocation
- Supply and installation of heavy current and low-current power wiring as well as fibre optic network wiring throughout the entire complex

Fells Rotaform

Hall FELS in Ilava - power supply of technological equipment

- Supply and installation of transformer and its connection to HV
- Supply and installation of LV switchboard RH03
- Supply and installation of compensation switchboard RC03
- Supply and installation of SIEMENS PS2500/PS1600 busbar system
- Connection of production technology including carrier routes
- Services: project documentation, individual, comprehensive tests, commissioning, personnel training, participation in guarantee tests

Ikea Industry Malacky

Analysis of data collection from HVAC units

- Analysis of possible data collection from HVAC units
- Design of a technical solution for data collection from HVAC units
- Programming and data collection of HVAC units
- Delivery of Wonderware software
- Delivery of application software for Wonderware SW

ZF Slovakia a.s.

ZF Levice – Geňa – Reconstruction of main lights

ZF Trnava – Overhaul of the lighting in PKW production hall in object No.24

- Removal of the original lights and supply and installation of new lights, PRS and communication wiring for the control system DALI by company Philips

Adler Pelzer Automotive Slovakia, s.r.o.

Hall BRA1 - HP PELZER - Power supply for technological switchboards

- project documentation
- Supply and installation of LV switchboards (with compensation)
- Supply and installation of cable support systems
- Supply and installation of heavy current power cables including termination

SCA Hygiene Products Slovakia, s.r.o.

PS02 HV connection and switchboards of VH6 substation

- Supply and installation of transformers and their connection to HV
- Supply and installation of HV disconnectors including connection to HV feeder in VH4
- Supply and installation of switchgear in VH6 substation RH11/x and RH12/x fields and their connection to the respective transformers
- Supply and installation of compensation switchboards RC11 and RC12 in the premises of SCA Hygiene Products Slovakia, s.r.o.
- Services: project documentation, individual, complex tests, commissioning, staff training, participation in guarantee tests

Waste water sewage disposal plants (SDPs)

- SDP Aglomerácia Tornaľa
- SDP Poltár
- SDP Krupina
- SDP Látky
- SDP Sereď



ZF Levice



Adler Pelzer
Automotive
Slovakia



switchboards
in the substation
SCA Hygiene
Products Slovakia



wastewater
treatment plant

References



Tunnel
Považský Chlmec



Motorway D3



Motorway feeder
Lietavská Lúčka
- Žilina



Project of Bratislava
bypass D4/R7

Technological Equipment for Road Tunnels, Motorways and Railways

Motorway D3 Žilina (Strážov) – Žilina (Brodno)

Complete supply of the following objects of the technological part of the Považský Chlmec tunnel:

- Complete Electrical Fire Signalling System (EFS)
- Supply, installation of switchboards of the Central Control System (CCS), including the SIMATIC S7 control system
- Programming of the traffic control system and tunnel technology control system
- Supply and installation of illuminated and LED changeable traffic signs
- Dispatching telephone
- Visualisation at the Integrated Operator Workstation at the Motorway Administration and Maintenance Centre in Považská Bystrica

Complete delivery of the construction and technological part of the Motorway Information System (MIS):

- Communication and power supply infrastructure
- Supply, installation, integration and management of complete changeable traffic signs
- Road traffic lights
- Technological hubs
- Traffic signal controllers
- Supply, installation, integration and visualisation of weather stations
- CCTV surveillance
- Electrical safety signalling
- SIMATIC S7 control system
- Visualisation at the Integrated Operator Workplace at the Motorway Administration and Maintenance Centre in Považská Bystrica
- Delivery, installation and configuration of a vehicle counter with axle weighing at the intersection in Brodno

Motorway feeder Lietavská Lúčka - Žilina, Stage II, km 4.7 - 7.3, information system of the feeder

- Construction part – supply of power distribution switchboards, power cables, UPS, communication fibre optic cables, earthing
- Construction part – technological equipment poles
- CCTV surveillance
- Road traffic signalling
- Changeable traffic signs – lamellar
- Changeable traffic signs – LED
- Signal-circuit controllers
- Technological hub
- Weather station
- Visualization SW for the Integrated Operator Workplace of the Považská Bystrica Motorway Administration and Maintenance Centre

Motorway D1 Hričovské Podhradie – Lietavská Lúčka

- Visualisation SW for Ovcársko and Žilina tunnels and adjacent parts of motorway at the Integrated Operator Workplace in Motorway Administration and Maintenance Centre in Považská Bystrica

Motorway D1 Trnava – Horná Streda

- Communication and power infrastructure
- Construction of supporting structures for technological equipment - columns and steel portals
- Technological hubs
- Signal section controllers
- Supply, installation, integration and visualisation of weather stations
- CCTV surveillance
- SIMATIC S7 control system
- Operator workstation including video wall at the Motorway Administration and Maintenance Centre in Trnava
- Visualisation of the motorway part at the operator's workplace
- Delivery, installation and configuration of traffic counters
- Supply, installation and configuration of TNV emergency telephones
- Supply and installation of slat PDZs, including large-area ones
- Supply and installation of LED PDZs
- Supply and installation of LED information panels

Motorway D1 Dubná Skala – Turany, extended workplace SSÚD Žilina

- Connection to MIS optical network
- Power and communication infrastructure
- Operator workstation including video wall at the Motorway Management and Maintenance Centre
- Visualisation of the motorway parts at the operator's workstation

Motorway D1 Budimír – Bidovce

- Communication and power infrastructure
- Road traffic lights
- Technological hubs
- Supply, installation, integration and visualisation of weather stations
- CCTV surveillance
- Electrical safety signalling
- SIMATIC S7 control system
- Visualisation at the Integrated Operator Workplace at the Motorway Administration and Maintenance Centre in Košice
- Delivery, installation and configuration of traffic counter
- Supply, installation and configuration of emergency telephones
- Salt warehouse - integration into RS

Bypass of Bratislava D4/R7

- Bypass of Bratislava D4 – project documentation in paper for building permits related to Motorway Information System (MIS) (approx. 20 building and technological objects)
- Bypass of Bratislava D4/R7 - processing project documentations (implementation and actual state), complete electrical part, including Motorway and Highway Information System (MIS/HIS) (approx. 350 construction and technological objects)

References



Tunnel Horelica



Tunnel Považský Chlmec



Tunnel Bôrik



Tunnel Branisko

Supply, installation, servicing and modification of the road tunnels we have implemented

Tunnel Horelica

- Servicing changeable traffic signs
- Servicing CMS including visualisation
- Servicing HV parts
- Inspections of electric parts

Tunnel Branisko

- Servicing EFS, non-portable fire extinguishers, HV
- Servicing motorway D1 Studenec – Beharovce
- Servicing motorway D1 Jablonov - Studenec
- Repairs of malfunctions

Tunnel Bôrik

- Spare sources
- Emergency call equipment - SOS cabs
- CCTV surveillance
- Radio link
- Notification circuits - transmission system
- Telephone connection
- Tunnel radio
- Fire doors
- Central control system (CCS)
- Measuring physical quantities
- Traffic signs
- Operator workstation equipment
- Electric fire alarm system (EFS)
- Tunnel lighting
- Tunnel ventilation
- Fire water supply - electrical part
- Outer lighting
- Repairs of malfunctions

Tunnel Považský Chlmec

- Central Control System (CCS)
- Traffic signs
- Electric fire alarm system (EFS)
- Dispatching telephone
- Motorway Information System (MIS)
- Repairs of malfunctions

Servicing Motorway Information System (MIS)

- Motorway D1 part Dubná Skala - Turany
- Motorway D1 part Piešťany - Sverepec
- Motorway D1 part Sverepec – Vrtižer
- Motorway D1 part Vrtižer – Hričovské Podhradie
- Motorway D3 part Hričovské Podhradie – Žilina (Strážov)
- Motorway D3 part Žilina (Strážov) – Žilina (Brodno)
- Motorway D1 part Važec – Mengusovce
- Motorway D1 part Mengusovce – Jánovce
- Motorway D1 part Studenec – Beharovce
- Motorway feeder Lietavská Lúčka – Žilina, Stage II, km 4.7 - 7.3

Scope:

- Construction part (power distribution boards, cables, earthing)
- Emergency call stands
- Electrical safety signalling
- CCTV surveillance
- Technological hubs
- Changeable traffic signs - lamellar
- Changeable traffic signs - LED
- Road traffic lights
- Radio transmission
- Signal section controllers
- Operator workstation

Supply and installation of automatic traffic counters

Motorways and highways in Slovakia

- Supply and installation of automatic traffic counters
- Supply of software works
- Testing and commissioning



MIS on motorway
Trnava - Horná
Streda



Full matrix
information panel
on motorway
Trnava - Horná
Streda



Assembly of MIS
on motorway
feeder Lietavská
Lúčka - Žilina



MIS on motorway
feeder Lietavská
Lúčka - Žilina

References



D1 Logistics Park
Senec



Automotive
Industrial Park
Lozorno



Photovoltaic power
plant in Drahovce



Technical
administration

Energy Outsourcing

Comprehensive management of industrial sites

Management of technological equipment of buildings, energy networks of industrial sites, optimization of energy processes, energy supply, local energy distribution, engineering and supply activities:

- D1 Park Senec
- Prologis park Bratislava
- Logistic park Sihot' - Chocholná
- Headquarters DHL Senec
- Production plant ZF Slovakia Trnava, Levice
- Automotive Industrial Park, Lozorno
- P3 Bratislava Airport
- Mahle Behr Senica

Management and office administration

- Budget preparation and audit
- Recording costs and management processes
- Coordination of suppliers

Management of utility networks

- Servicing, maintenance and repairs of:
 - HV and LV power distribution systems
 - gas pipelines
 - heating pipeline
 - water pipelines
 - sewage and storm rain drainage

Construction and development of infrastructure in D1 Park Senec

- Communications
- HV and LV power distribution
- Gas pipeline
- Water pipeline
- Intelligent meter data collection
- Sewage and rainwater drainage

Technical management of objects

- Servicing, maintenance and repairs of:
 - Heating systems
 - HVAC and refrigeration systems
 - fire - technical and security equipment
 - compressed air distribution systems
 - electrical equipment HV, LV and I&C
 - lifting equipment
- Professional inspections and professional tests (PIPT) of the selected technical equipment, such as:
 - electrical
 - gas
 - pressure

Non-technical management of objects

- Waste management
- Maintenance of roads and greenery
- Cleaning
- Guarding service

Energy supply and distribution

- Logistic park D1 Park Senec
- Logistic park P3, Lozorno and Bratislava Airport
- Industrial park DaK Küster, Devínska Nová Ves
- GARBE Industrial real estate
- Shopping centre EUROVEA, Bratislava and City Arena, Trnava
- Shopping centre Galéria Lučenec
- Automotive Industrial Park, Lozorno

Supply of electricity and gas

- Combined supply of electricity and gas
- On-line summaries of electricity and gas
- Notifications of limit and defined parameters

Operation of energy distribution networks

- Establishment of local distribution networks
- Registration of consumption points, certification in accordance with legislative regulations
- Creation and approval of own distribution price lists
- Measuring and billing of consumption
- Energy management via mobile applications and the Power IEM web portal
- Local energy resources

Operation of water and sewerage systems

- Professional representative for the operation of the public water supply system
- Professional representative for the operation of the public sewerage system
- Servicing, maintenance and repair

Energy audits and optimization services

- Železničná spoločnosť Slovensko, a.s.
- Plastic Omnium Auto Exteriors, s.r.o.
- SLOVALCO, a.s.
- ProLogis Slovak Republic
- Faurecia Automotive Slovakia s.r.o.
- IAC Group (Slovakia) s.r.o.

Basic identification of energy management

- Expert assessment of the condition of buildings, technologies and equipment
- Determination of energy performance and savings potential

Establishment of an economically viable savings plan

- Measures without the need for investment
- Low-cost measures and long-term measures

Implementation of energy saving measures

- Coordination of processes, possible financial participation

Operation of energy sources

- Photovoltaic power plants Drahovce
- Photovoltaic power plants Čechánky
- Photovoltaic power plant Šahy

Technical operation of resources

- Ensuring trouble-free operation of resources, servicing, maintenance

Legislative management of resources

- Compliance with legislative obligations of resources, monitoring, billing documents, reporting of mandatory data

References



New Generation
Hospital
in Michalovce



Multifunctional
building Tabáň
in Nitra



Production plant
Cloetta in Levice



Futball arena
in Košice

Other Projects

SLOVMAG, a.s. Lubeník

- Supply and installation of HV cable between existing HV substations on the surface and underground
- Terminations and connections in HV switchboards
- Conducting the necessary measurements and tests

Svet zdravia, a.s.

Hospital - Nemocnica Novej Generácie Michalovce

- Supply and installation of power wiring, cable support systems and installation of ending elements
- Supply and installation of Medical Insulated System
- Supply of UPS
- Supply and installation of LV connection to the new hospital building
- Services: individual, comprehensive tests, commissioning, staff training, participation in guarantee tests

NSP Sv. Jakuba, n. o., Bardejov

Establishment of a ward for emergency medicine

- Delivery and installation of heavy current power distribution of electrical installation
- Supply and installation of the Medical Insulated System
- Supply and installation of lights and sockets
- Supply and installation of EFS
- Supply and installation of HSP
- Supply and installation of CCTV system
- Supply and installation of public lighting

Capacity building and infrastructure modernisation in Ľubovnianska nemocnica, n. o.

- Supply and installation of new lights and sockets
- LV connection
- Supply and installation of structured cabling
- Supply of UPS
- Supply and installation of Medical insulated system
- Supply of Central battery system

Modernization of infrastructure for more efficient provision of urgent health care in Nemocnica Zvolen, a.s.

Construction of emergency medicine ward, Department of Anaesthesiology and Intensive Care Medicine, reconstruction of operating theatres

- Supply and installation of new lights and sockets
- LV connection
- Supply and installation of structured cabling
- Supply of UPS
- Supply and installation of Medical insulated system
- Supply of Central battery system

Pavol Jozef Šafárik University in Košice

- Replacement of the power cable for the Rector's office building
- Cable routes
- Replacement of LV substation circuit breakers

Multifunctional building Tabáň in Nitra

- Supply and installation of heavy current cabling and distribution system
- LV switchboards
- Indoor lighting system
- Earthing and lightning rod
- Central battery system
- UPS
- Electrical fire detection and alarm system
- Audible fire alarm system
- Heating of a drive-up platforms
- CCTV system
- Data distribution system

KFA - Košická Futbalová Aréna

- Supply and installation of transformer substation
- Delivery and installation of HV switchgear
- Supply and installation of LV switchboards for the main building and additional in-builds
- Implementation of earthing and lightning conductor
- Supply and installation of high-current electrical wiring for playground lighting
- Supply and installation of high-current distribution of electrical, lighting, socket and technological installation
- Supply and installation of emergency lighting system
- Supply and installation of UPS and diesel generator
- Supply and installation of outdoor lighting
- Preparation of the as-built documentation

Zuckerman - ČSOB Bank

- Supply, installation and as-built documentation
- LV cabling
- LV switchboards
- Indoor and outdoor lighting systems
- Earthing and lightning rod
- 800 kVA diesel generator

Zuckerman - administrative buildings

- Installation of main LV switchboards
- Installation of lighting switchboards
- Supply and installation of indoor lighting
- Supply and installation of heavy current lines (cable routes, LV cables including terminations)
- Connection of technological equipment
- Supply and installation of lightning protection system

Expansion of the plant Cloetta in Levice

PS 200.1 Switching station 22kV

- The existing control cable connected between the thermal protection of the T2 transformer in PTS2 and the trip coil of the switch in the No.5 field of the switching station will be dismantled after the implementation of PTS10 and the relocation of PTS2

PS 210 Substation - PTS 10

- Supply and installation of cable lines
- Supply and installation of substation EH3
- Earthing and lightning protection

PS 301 External HV distribution lines

- Supply and installation of cable lines

SO 100 Main building

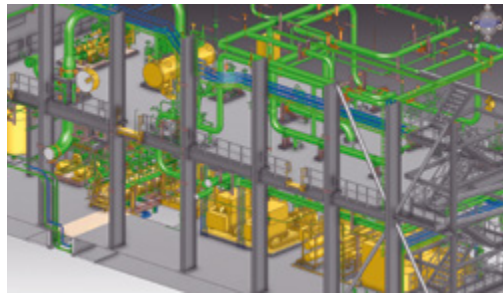
- Switchboard MCC10
- Cable lines in the hall
- Main coupling

Services: project documentation, individual, comprehensive tests, commissioning, staff training, electrical equipment inspections, cooperation in official testing, technical assistance in the approval procedure

References



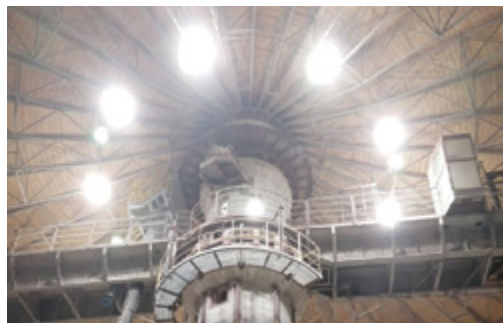
Switchboard
manufacturing plant
assembly hall



Visualisation of
the engine room
in the Newhurst
incinerator plant



Visualisation of
the compressors
in the Rookery
incinerator plant



Renewal of
production unit
lighting systems
in Duslo Šaľa

Engineering Activities in the Area of I&C and ELECTRO

Providing design, programming, 3D modelling and consultancy services for various customers in the area of energy and industry in Slovakia and abroad: Slovenské elektrárne a.s., Slovnaft a.s., Hitachi Zosen Inova, Samsung Engineering Hungary, Ltd., Doosan Energy Solution Kft., Nafta a.s., Transpetrol, a.s., VUCHT a.s., IDO HUTNÝ PROJEKT a.s., Mondi SCP, a.s., Škoda JS a.s., VUJE a.s., Vertiv Slovakia, a.s., PANTOGRAPH s.r.o., Slovenská kanoistika Canoeing - water slalom complex in Liptovský Mikuláš

Data Centre

Faculty of Electrical Engineering and Information Technology of the University of Technology in Bratislava

- Project Revitalization of interior parts of FEI STU - Data Centre FEI STU - electrical installation and material supply, electrical power supply distribution, supply and installation of switchboards, tests and revival of components, inspection reports

Slovnaft, a.s.

- Reconstruction of the data centre, UMT building - electrical installation work and material supply for the heavy current power supply, OMS suspension rail system, supply and installation of switchboards, tests and revival of components, inspection reports

Reducing Energy Demands - Operational Programme of Environmental Quality

The projects of lighting and wiring replacement are implemented within the framework of the OPEQ (Slovak Agency for Innovation and Energy and the European Regional Development Fund) in order to reduce energy consumption and achieve the planned savings in operating costs. The aim of the projects is to improve the quality of lighting at workplaces, in particular by increasing the intensity of lighting and improving equal distribution of lighting. The new lighting and wiring reflect the extreme demands of the environment, such as dust, the impact of chemicals, vibration and ambient temperature in order to reduce service interventions to a minimum and to allow cleaning of the equipment with pressurised air or water.

- **DUSLO a.s. „Renewal of lighting in production units“** - project focused on the renewal of lighting in 6 production facilities with 3-shift continuous operation, where the workplace lighting is provided by artificial lighting in the whole floor plan of each production hall in a highly dusty and corrosive environment. The execution of the contract includes the complete replacement of cable routes, cabling and lighting technology with a high proportion of innovative technologies (LED lights, DALI intelligent light control system).
- **„Increasing the efficiency of indoor and outdoor lighting of the production units at Saneca Pharmaceuticals a.s.“** - project focused on the renewal of lighting in production units with 3-shift continuous operation, where workplace lighting is provided by artificial lighting in the whole floor plan of the production halls in a high clean environment and adding control components to the existing outdoor lights. The execution of the contract includes the replacement of lights, and lighting technology with a high proportion of innovative technologies (LED lights, DALI intelligent light control system).

- **„Building modifications focusing on reducing the energy consumption in AŽD W Poprad, s. r. o. - part 2 Electrical installation“** - project focused on the renewal of lighting/ventilation in production and warehouse facilities with 3-shift continuous operation, where the workplace lighting is provided by artificial lighting in the whole floor plan of each production / warehouse hall. The execution of the contract includes the complete replacement of lights, cabling and lighting technology with a high proportion of innovative technologies (LED lights, DALI intelligent light control system).
- **„Increasing the capacity of Elementary School at Medzilaborecká 11, Bratislava - Ružinov“** - a project aimed at the construction of a new pavilion, a gymnasium and an extension to the existing canteen In Elementary School at Medzilaborecká 11, Bratislava. The execution of the contract includes the construction of complete wiring, lighting, signalling and communication elements with a large share of innovative technologies (LED lights, intelligent DALI light control system). The project also includes the construction of a photovoltaic power plant.
- **„Reduction of energy consumption in RONA, a.s.“** - Project aimed at the reconstruction and modernisation of the lighting system. The subject is the complete replacement of the lighting system with a more energy efficient one, installation of LED lights with a control system and energy monitoring. The execution includes dismantling of the original lighting, installation of new LED lights with DALI intelligent control system, supply and installation of new light switchboards, UPS, motion and lighting sensors, installation of new cable routes and cable sets in 8 production halls. The work is conducted during continuous operation, in most cases the work is at height in a hot temperature environment.

Balance Sheet, Profit and Loss Account

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Consolidated Balance Sheet ending with the 31st December 2021 in thousands of EURO

	2021	2020
Non-current assets	18.455	15.533
Intangible assets	330	136
Tangible assets	11.569	9.216
Other movable property	5.304	5.470
Goodwill	0	0
Non-current financial assets	2	2
Other financial assets	91	118
Long-term receivables	399	13
Deferred tax assets	760	578
Short-term assets	94.286	86.626
Inventory	3.777	4.887
Receivables	47.940	41.153
Other receivables	3.263	681
Short-term accruals	500	4.398
Cash and bank accounts balances	38.806	35.507
Total assets	112.741	102.159
Equity attributed to shareholders	59.438	62.357
Share capital	1.052	1.052
Fund of exchange differences	94	28
Capital and Statutory funds	319	302
Funds of profit	4.231	8.228
Retained earnings	46.460	43.268
Profit for the period attributed to shareholders of the mother company	7.282	9.479
Equity attributed to non-controlling shares	1	1
Total equity	59.439	62.358
Long-term liabilities	13.128	9.867
Long-term trade and other payables	5.199	1.180
Deferred tax liabilities	104	64
Long-term provisions	7.825	8.623
Current liabilities	40.174	29.934
Short-term trade payables	32.472	23.787
Liabilities to the state	1.726	1.936
Other current liabilities	2.373	2.448
Short-term income and accrued expenses	48	441
Short-term provisions	1.544	1.313
Short-term borrowing	2.011	9
Total liabilities	53.302	39.801
Total equity and liabilities	112.741	102.159

Consolidated Profit and Loss Account ending with the 31st December 2021 in thousands of EURO

	2021	2020
Sales	146.496	134.072
Cost of goods sold	-11.800	-21.380
Shaft material and energy	-41.794	-44.672
External services	-47.744	-27.658
Occupational loan	-31.917	-29.188
Depreciation	-1.596	-1.363
Gross margin	11.645	9.811
Other operating income	-2.122	3.597
Other operating expenses	-256	-1.005
Operating profit	9.267	12.403
Financial income	1.563	522
Financial expenses	-1.594	-828
Profit before tax	9.236	12.097
Income tax	-1.953	-2.617
Profit after tax	7.283	9.480
Shares in associated companies affiliated operations	0	0
Discontinued operations		
Profit from discontinued operations	0	0
Profit for the period	7.283	9.480
Assigned to:		
holders of the parent company	7.282	9.479
non-controlling shares	1	1



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Annual Report Availability

The printed annual report is available at the company's registered office and can be sent by post upon request. The report can be downloaded in PDF format from **www.ppa.sk**,
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Technology under control

