

ANNUAL
REPORT

2025



PPACONTROLL®

The Chief Executive Officer's Speech

Year 2025 was a successful year for the group of companies in PPA CONTROLL in terms of growth in consolidated turnover, an improvement in financial results and confirmation of the group's long-term financial stability.

The consolidated results confirm the group's growing performance, a solid business base and ability to deliver large-scale contracts in a challenging market environment.

The group has maintained a strong position in key segments of its operations, particularly in the fields of energy, industrial solutions, transport technologies, energy network management, the manufacture of switchgear and the implementation of technologically demanding projects in Slovakia and abroad.

The performance of the group of subsidiary companies within PPA CONTROLL in 2025 confirmed the group's diversified nature, its ability to achieve results across multiple market segments and, at the same time, the significance of individual companies to the group's consolidated performance.

The results for 2025 provide a solid foundation for the coming period, during which the group plans to continue developing key segments, strengthening its international activities, digitising processes, increasing efficiency and developing professional potential.

In 2025, PPA ENERGO, s.r.o. continued to implement technologically demanding projects in both domestic and foreign markets. A significant proportion of revenue was generated by activities in foreign markets, particularly in Hungary, Germany, the United Kingdom and France.

In terms of revenue structure, the key segment remained nuclear energy and the implementation of technological systems. On the domestic market, the company completed the projects for Slovenské elektrárne, a.s. at the sites of Jaslovské Bohunice and Mochovce. A significant proportion of the work was related to finalising and commissioning Unit EMO 4.

In foreign markets, the company carried out projects primarily in the field of electrical installations, the supply and

Assessment of the Company's Overall Development in 2025

installation of low-voltage switchboards, and comprehensive solutions in the field of electrical and control systems.

Key activities were executed on the ITER project in France, CERN in Geneva, Hinkley Point C in the UK, Tesla Gigafactory in Germany and on industrial projects for Samsung SDI in Hungary.

From a commercial perspective, year 2025 was characterised by the company's constant ability to secure new contracts and maintain long-term business relationships. There were significant contracts secured, such as projects of Martin Hospital, JRC Karlsruhe – new laboratory building Wing M, DRENİK Biomass Power Plant in Szolnok and contracts for Samsung SDI and other industrial partners.

In 2025, PPA POWER DS, s.r.o. continued to carry out activities in the areas of energy distribution and supply, technical and administrative management of industrial sites and the provision of energy services, which made a significant contribution to the group's steady performance.

In terms of revenue structure, income was generated primarily in the segments of energy distribution and supply, the management and operation of energy systems in industrial sites and the provision of supplementary energy and technological services.

Throughout the year, the company carried out projects in the field of energy infrastructure and technological solutions, including the construction of a photovoltaic power station, including a shelter structure for STAVMAT Stavebniny in Plzeň; the supply and installation of switchboards for Technogym EE; and the modernisation of lighting at EQT Exeter Park Bratislava logistics complex. At the same time, the company expanded its activities in the field of energy services by acquiring and commencing the management of a battery storage facility for Veolia Energia.

The year 2025 was significant for PPA INŽINIERING, s.r.o. in terms of its merger with ENERGO CONTROL, s.r.o. By merging the two entities, the company expanded its implementation capabilities, technical expertise and ability to cover a broader spectrum of technological projects.

A key milestone in 2025 was the completion and commissioning of the technological equipment for the tunnel of Višňové. The company carried out a comprehensive supply of technological systems for the project, ensuring traffic

management, safety and tunnel operations, which represents its most significant reference in the field of transport infrastructure.

In addition to this project, in 2025 the company carried out several significant contracts in the sectors of energy and technological supplies. Among the largest there were the projects for a new source of heat and electricity in Žilina, a gas-powered plant for KVET in Dětmárovice, technological supplies for waste-to-energy facilities, including the projects in Germany, and the projects related to the construction of transport infrastructure, in particular the motorway R4 Prešov – Northern bypass.

From a commercial point of view, the company built on previous projects during the year whilst also securing new contracts, particularly in the energy sector and for EPC supplies, primarily in the markets in the Czech Republic and Germany.

The main activities of LiV ELEKTRA, s.r.o. in 2025 were focused on the implementation of electrical power projects, electrical installation work and the construction aspects of infrastructure projects, in particular the construction and refurbishment of distribution points, transformer stations and LV, HV and VHV power lines, including optical infrastructure and technological systems. At the same time, this year was characterised by the development of the company's own implementation capabilities, particularly in the construction sector, including the provision of machinery, formwork systems and technologies.

The key project of the year was the construction work for the 110 kV Vajnory substation point for a client in the energy infrastructure sector, which was for the first time the construction project of this size the company had carried out using its own resources. In addition to this project, the company conducted work in the field of overhead lines and distribution networks, in particular the construction and reconstruction of cable lines, the building of transformer stations and electrical installation work on energy facilities, including the projects in urban sprawls and industrial estates.

Other companies of the group also contributed to the overall results in 2025, mainly PPA TRADE, s.r.o., PPA T & D, s.r.o., FTVE 3, s.r.o., and PPA CONTROLL Magyarország Kft.



Ing. Bystrík Berthoty
Chief Executive Officer and Chairman of the Board of Directors

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About the Company

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General Information about the Company

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 3 District Court Commercial Register Section Sa, Insert No. 159/B

The Company's basic Values

We want to be the best not only in what we do, but also in how we do it. We want the best in the field and the industry to seek our advice or inspiration, so we could be an interesting source of improvements, innovations and unique solutions for them. In our journey to achieve the goals, we are guided by and adhere to our values, which include:

Stability – which we bring to our customers, employees and shareholders. We are constantly looking for new business opportunities, markets and customers, developing what we are already good at, eliminating shortcomings and developing our competitive advantages based on our own know-how.

Ingenuity – we look for exceptional and efficient technological solutions, create an environment and atmosphere that motivate our employees to be innovative and creative; we anticipate the future needs of our customers and strive to bring positive changes to our operations.

Passion for excellence – we want to amaze with our solutions, their efficiency, originality and uniqueness. We constantly strive for exceptional quality and flexibility, set ambitious goals and enjoy finding solutions to even the most difficult and complex tasks.

Partnership – we strive for partnerships with our customers and suppliers as well as for strong and fair relationships between our employees, which we base on openness, information and trust. We are loyal and do stand by each other in challenging times, we honour and support team spirit, mutual respect and share the same values.

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, š. 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 of LiV ELEKTRA, a.s. by PPA CONTROLL, a.s. and incorporation into its holding group, achieving a certificate of information security management system according to ISO/IEC 27001
2023	Acquisition of ENERGO CONTROL s. r. o. and their inclusion into the group of companies in PPA CONTROLL

Corporate Philosophy

As a supply and engineering company in the field of electrical systems, measurement, control and process automation, we have a successful history of more than 75 years. We want to continue to be a source of inspiration for successful technologies and co-create the world of cleaner and more comfortable ones. By providing professional services, we want to help partners streamline their activities and operations, participate in their innovations, reduce potential risks in their operations, streamline energy costs and reduce environmental burdens. We are a team of experts giving life to technologies of the future. In order to fulfil this mission, we create a productive working environment for our employees with a focus on professional and personal development.

Line of Business

The core activities of the PPA
CONTROLL Group companies include
studies, design, supply, installation,
commissioning, and maintenance in
the following areas:

Measurement and control,
Field Instrumentation

- Measuring temperatures, loops of pressures, pressure differences, flows, levels, displacements and other physical variables
- Specialized measurements, detection of flue gases and toxic gases, environmental monitoring
- Systems for liquid and gas analysis – chromatographs
- Control valves and actuators
- Regulators and evaluation systems
- Connections to control and LV systems

Control and Monitoring
Systems

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

Electrical Systems

- LV, HV and VHV underground cable lines
- Linear constructions
- Transformer stations and substations for LV, HV, VHV, EHV
 - Power output from generators to HV networks
- Power distribution systems, cable and busbar systems
- LV cabling
- Power protection
- Battery storage systems
 - Electrical power generation equipment
- Search and repair the faults of LV power cables (wiring)
- Search and location the ground electrical and communication lines

Technology Projects in the
Energy Sector

- Feasibility studies (support for project planning and financing)
- Design documentation for all required disciplines
 - Building permit design
 - Execution design
 - Cybersecurity design
 - As-built documentation
- Implementation phase in cooperation with reputable partners
- Construction part
- Mechanical and technological supplies, including:
 - Turbines, boilers, cogeneration units, and other compact units
 - measuring and control technology, control systems, and electrical systems
- Commissioning, including
 - Leak tests, pressure tests, individual system tests,
 - chemical cleaning and air purging
 - comprehensive testing
 - guarantee tests and so-called babysitting
- Warranty and post-warranty service

Technological Equipment for
Motorways and Tunnels

- Supply of electric power for tunnels – HV, LV, UPS, backup sources
- Tunnel lighting and ventilation
- Tunnel radio
- Radio connection in tunnels
- Measurement of physical and meteorological parameters in tunnels
- Emergency call telephones
- 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

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, Sivacon 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

Serial production

- Long-term cooperation in the serial production of control systems for an internationally established escalator manufacturer
- Production of specialized switchboards for AI data centres in Western Europe as part of a global technology project
- Production of custom-designed switchboards, panels, and components based on the client's technical specifications
- Serial production in a dedicated manufacturing facility with in-house project management, warehouse logistics, assembly stations, and a specialized testing centre to verify the functionality and quality of every product
- Preparation of cable and wire harnesses at a semi-automated workstation to ensure high efficiency and repeatability of production
- Adherence to high quality standards, environmental requirements, and lean manufacturing principles, with emphasis on fast delivery and flexibility in response to changing serial production demands

Information and
Telecommunication Systems

- Integrated light-current distributors
- Data LAN, MAN and WAN networks
- Data line systems (EFS, IDS, CCTV, etc.)
- Parking systems
- Voice communication systems
- Cisco solutions
- Structured metallic and optic fiber cabling systems data centers
- Search and repair the faults of communication metallic and fiber optic cables

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 (including areas with explosion hazards, without voltage limitations, and in mining environments classified under groups C3, C5, and C6)
 - 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
- Consultations and advisory services for maintenance personnel
- Network analysis and problem identification
- Supply of spare parts for maintenance
- Verification of intrinsically safe circuits
- MV cable diagnostics using partial discharge measurements (measuring vehicle)
- Diagnostics of MV and LV cables using DAR, PI, and insulation condition measurements
- Detection of sheath faults in MV cables
- Voltage testing of MV cables up to 22 kV (measuring vehicle)

Welding

- Supervision of the welding quality system according to ISO 3834-1 by qualified personnel – IWE/EWE
- Preparation of welding documentation – WPS, WPQR, and welding procedures
- Documentation assessment
- Welding of impulse piping
- Welding of steel structures – stands, supports, auxiliary structures, switchboard frames, cable trays, grounding strips, etc.
- Welding of hermetic and non-hermetic tube and cable glands
- Locksmithing work
- Non-destructive testing (NDT) of welds
- Visual testing of welds – VT
- Penetrant testing of welds – PT
- Leak testing – LT



Social Responsibility

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The group of companies in PPA CONTROLL finds social responsibility an integral part of its business. We realise that our activities have an impact on society and the environment.

We therefore approach this responsibility systematically, with an emphasis on specific provisions, measurable results and long-term sustainability.

Quality, safety and reliability are the cornerstones of our operations. The group of companies in PPA CONTROLL has certified management systems in accordance with ISO 9001, ISO 14001 and ISO 45001. We are also among a selection of Slovak companies with ISO 19443 certification focusing on the requirements of the nuclear industry.

Ethics and transparency are important pillars of our corporate social responsibility. Our business is governed by the Ethical Code which sets out the rules of conduct for both employees and company management. This framework is complemented by the Ethical Code for suppliers and business partners, through which we promote fair business practices, compliance with legislation, the protection of human rights, zero tolerance for corruption and a responsible approach to the environment.

The group of companies in PPA CONTROLL invests in the professional development of its employees through training, certification and involvement in technologically demanding projects. We encourage sharing of know-how, innovation and professional excellence. At the same time, we create working environment based on respect, equality of opportunity and safety, including the highest standards in the field of health and safety at work.

We are also aware of our responsibility towards future generations of professionals. We collaborate with vocational secondary schools and universities, support technical education and create opportunities for students to gain practical experience.

For the group of companies in PPA CONTROLL, social responsibility is a long-term commitment to developing sustainable, ethical and innovative solutions with a focus on people.

Management systems in accordance with ISO 9001, ISO 27001, ISO 14001, ISO 45001, SCC-VAZ and ISO 19443.

We responsibly apply the principles of quality assurance, information and nuclear security, health and safety at work, as well as environmental protection, in all our processes. We regularly assess and continuously improve the implemented management systems, whilst placing great emphasis on compliance with the requirements of our customers, government authorities, regulatory bodies and other parties involved.

In 2025, we underwent surveillance audits for the management systems ISO 9001, ISO 27001, ISO 14001, ISO 45001 and SCC-VAZ, as well as a certification audit for ISO 9001, ISO 14001 and ISO 45001 at our subsidiary PPA T&D. At the same time, we completed the first phase of the audit for nuclear safety culture under ISO 19443 at our subsidiary PPA ENERGO.

The long-term implementation of these management systems at PPA CONTROLL, a. s., and its subsidiaries is a prerequisite for the successful and comprehensive fulfilment of all legislative and procedural requirements.

With a collective approach by all employees, we strengthen the PPA CONTROLL group's overall contribution to socially responsible behaviour. Continuously improving standards of quality, safety and the overall corporate culture is our daily task.

By means of a thorough risk analysis, goal setting and the implementation of appropriate measures, we contribute to the development of the group of companies in PPA CONTROLL and the promotion of its good reputation. Using this effort we aim to continuously improve our internal processes and meet the expectations of our customers and other parties involved, and above all, we wish to remain your trusted and reliable partner.

Human Resources

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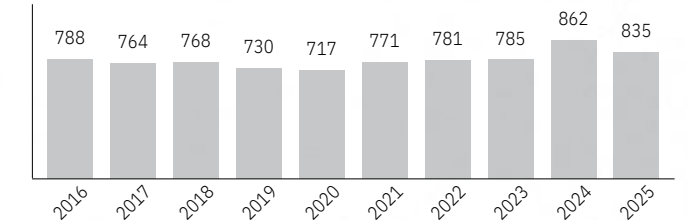
Staff structure

The company's strategy is to look after its staff in order to stabilise its skilled workforce. To promote its employer brand and present PPA CONTROLL as an attractive employer, the company has taken part in student careers fairs. The company regularly presents itself at specialist conferences and is actively involved in collaboration with secondary schools and universities of technical specialisation. The company supports dual education and encourages the acquisition of practical experience for secondary school students. As at 31 December 2025, the PPA CONTROLL group of companies employed a total of 835 employees. The staff retention rate fell to 59 percent in 2025 (the percentage of employees being with us for more than 5 years out of the total). Of the total workforce, there are 82 per cent of men and 18 percent of women. The average age within the company is 46 years. Technical education of our employees and job applicants remains a key priority for us. The most frequently filled positions in 2025 were test engineers, implementation managers and designers.

Staff Development

Staff training and development is one of the company's top priorities. PPA CONTROLL has expanded the training opportunities available to its staff to include further options, with the aim of providing flexibility in acquiring qualifications. In order to maintain a high level of expertise, the company has streamlined the training process and language training for staff by providing opportunities to attend specialist conferences. PPA CONTROLL invested €448,309 to the staff education, with the average annual cost per employee amounting to €536. PPA CONTROLL provides its employees with a wide range of benefits focusing on wellbeing, sporting activities, family and relaxation, and psychological support.

Number of employees in PPA CONTROLL group 2016 – 2025



Number of employees by Education

	2023	2024	2025	%
Primary	1	1	1	0%
Secondary	454	486	476	57%
University	330	342	358	43%
Total	785	829	835	100%

Number of employees by Age

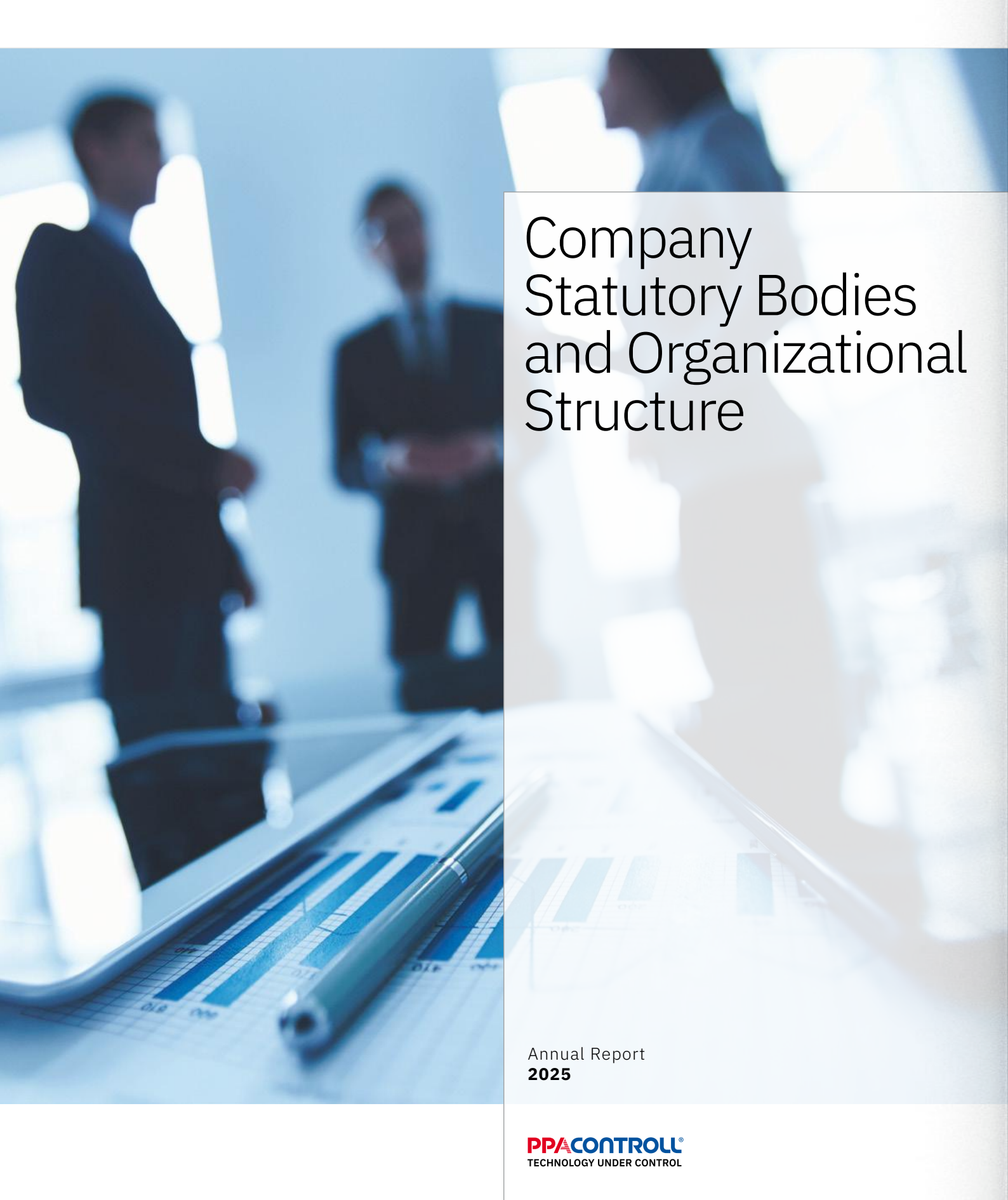
	2022	2023	2024	2025
18-29 year	73	72	82	73
30-39 year	177	185	184	159
40-49 year	208	216	257	255
50-59 year	210	205	234	236
over 59 year	113	109	105	112
Average age	46	46	45	46

Number of employees by Gender

	2023	2024	2025	%
Women	132	168	154	18 %
Men	650	694	681	82 %
Total	782	862	835	100 %

Employee structure by Professions

	2023	2024	2025	%
Management	37	39	34	4%
Sales and Procurement	75	89	94	11%
Project management	85	105	107	13%
Designers, programmers	121	127	136	16%
Administration	118	124	102	12%
Technicians	167	133	129	15%
Assembly workers	172	222	214	26%
Others	10	23	19	2%
Total	785	862	835	100%



Company Statutory Bodies and Organizational Structure

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Board of Directors

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. 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 Director of subsidiary PPA INŽINIERING, s. r. o. from 2013 till 2023. Since 2013 he has been a Member of Executive Board.

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.

Ing. Peter Mekel

Born on 13 November 1976. A graduate from the Faculty of Electrical Engineering and Information Technology at the Slovak University of Technology in Bratislava. He has held his current position as Managing Director of the subsidiary LiV ELEKTRA, s.r.o. since 2023. He has been a member of the Board of Directors since 1 August 2026.

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.

Mgr. Juraj Lott, Member

Born on 10 April 1975. Graduate from the Faculty of Management at Comenius University in Bratislava. In 2020 and 2021, he was a member of the Supervisory Board. Since 2025 he has been a member of the Supervisory Board again.

Senior Management

PPA CONTROLL, a.s.

Ing. Bystrík Berthoty

Managing Director

Ing. Erik Vicena

Deputy CEO for Business Affairs

Ing. Marta Kramárová

Finance Director

Ing. Michaela Tavalýová

Management Systems Director

PhDr. Martina Fandelová

Human Resources Director

JUDr. Marek Jurina

In-house Legal Counsel

JUDr. Juraj Oslanec

In-hoctor of IT Division

Subsidiary Company Management

PPA ENERGO, s.r.o.

Ing. Bystrík Berthoty

Executive Director

Ing. Erik Vicena

Director of the Commercial Division

Ing. Emília Lalíková

Finance and Human Resources 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.

JUDr. Erik Štefák

Executive Director

Ing. Branislav Babic

Director of the Commercial Division

Ing. Miroslav Hladký

Director of the Finance Division

Ing. Igor Jamnický

Director of Traffic Technology Department

Ing. Richard Pavlík

Director of Department for Technological Projects in Power Industry

Ing. Stanislav Uhlár

Director of Technical Department

Ing. Roderik Gröne

Director of Department for Contract Realisation

PPA POWER DS, s.r.o.

Ing. Marian Hlasný

Executive Director

Ing. Michal Vargončík

Sales Director

Ing. Michal Kolimár

Director of Energy Distribution Department

Ing. Eva Turňová

Director of Economic Department

LiV ELEKTRA, s.r.o.

Ing. Peter Mekel

Chief Executive Officer and Chairman of the Board of Directors

Martin Latečka

Technical Director and Member of the Board of Directors

Ing. Karol Herchl

Production Director and Member of the Board of Directors

Ing. Jozef Múdry

Sales Director

PPA T&D, s.r.o.

Bc. Ivana Krajčírovičová

Executive Director

Mgr. Darina Pavlů

Legal Representative of the Company

Ing. Bystrík Berthoty

Legal Representative of the Company

Ing. Erik Vicena

Legal Representative of the Company

Radoslav Benc

Legal Representative of the Company

PPA POWER, s.r.o.

Ing. Erik Vicena

Legal Representative of the Company

PPA TRADE, s.r.o.

Ing. Rudolf Chochula

Executive Director

PPA SLAVUTIČ KYJEV, s.r.o.

Ing. Vladimír Pánik

Executive Director

PPA CONTROLL CZ, a.s.

Mgr. Darina Pavlů

Legal Representative of the Company

PPA CONTROLL Magyarország Kft.

Tibor Szüllő

Legal Representative of the Company

Ing. Tomáš Hörigh

Legal Representative of the Company

References

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Energy

Západoslovenská distribučná, a. s.

ES Čulenova – completion of T103 and replacement of T101, T102

- Ensuring sufficient 110/22 kV transformation capacity for the increasing load on the 22 kV distribution system in the vicinity caused mostly by development activities in the immediate and wider area of the power station, especially at Landererova Street and Mlynské Nivy.
- Construction and completion of the 110/22 kV T103 power transformer, which was implemented in the existing R22 kV building. The implementation included dismantling of useless equipment and demolition of buildings. The addition of transformer T103 and replacement of transformers T101, T102 2 x 63 MVA with 2 x 40 MVA in low noise design required several modifications to the existing power station technology.

Building Objects

- SO31 Substation 110 kV
- SO32 Transformer site
- SO34 Building of common operations
- SO35 Substation 22 kV
- SO37 Site lighting
- SO41 Internal communications
- SO45 Rough landscaping
- SO46 Final landscaping
- SO47 External fencing – modification
- SO49 Demolition
- SO59 Intrusion alarm system (IAS)
- SO60 Electric Fire Alarm System (EFS)

Operational Files

- PS01 Technology dismantling
- PS04 Transformers and chokes
110/22 kV transformers – T101, T102 and T103, new primary resistors and their primary connection, VHV power connections from cable glands to HV transformer glands, HV power cables from the node of secondary windings of 22 kV transformers T101, T102 and T103 to primary resistors, HV surge arresters including their connection, auxiliary steel structure for HV and VHV cables, cable VHV terminals and surge arresters.
- PS09 Switchgear 110 kV
New SF6 gas insulated field 07 for connection of 110 kV side of transformer T103, connection of new field

- 07 to prepared main busbar extension modules for connection of new field during operation of 110 kV substation, replacement of existing VHV cables of transformer T101 and T102 with new ones including terminations, routing of VHV cables of T101, T102 and T103, connection of new field 07, terminations.
- PS10 22 kV distribution equipment
Extension of the 22 kV cabinet HV substation to include the new feeder field of transformer T103, modification of the blocking conditions of R22 kV and modification of the parameterisation of the affected protection terminals, laying of new HV cables from transformer T101, T102 and T103 to the HV switchboard, including installation and connection of cable terminals.
- PS31 Electrical protection
Addition of new switchboards to building common operations – R110 kV area, modifications in existing switchboards and in the transmission equipment cabinet, testing and activation of transmitted signals of pulling down and remote switching off, in the opposite substations Ovsšte and Podunajské Biskupice. Modifications in the existing switchgears ARE, ASE Protection relay switchgears due to the replacement of transformers T101, T102 and addition of a new transformer T103, modification of the blocking conditions of R110 kV and modification of the parameterization of the affected protections and substations CIS.
- PS32 Control and Information System (CIS)
Addition of CIS related to the new transformer T103 and its digital protections and to the field substation AEA07. Addition of CIS in connection with the new 110 kV substation SF6 loss automation and with the extension of the R22 kV substation with the new AJE45 field substation. Modifications to transformer substations T101 and T102 in connection with their replacement. Extension of fibre optic loops with new protection and substation.
- PS33 Evaluative measuring and power quality measuring
Construction of a new electricity evaluative measurement cabinet AQQ01 and electricity quality measurement cabinet AQF01.
- PS40 Main earthing network (MEN)
- PS50 Self-consumption Rearmament (addition) of outlets in switchboard ANG2,8 for cooling, control and heating supply in connection with the addition of T103 and replacement of T101, T102 and in connection with the new switchgear AZE03 – ELI R22 kV. Rearmament (addition/disconnection) of outlets in switchboard ATJ1,3 and in switchboard ANL0.

Transition of HV cable line to HV air line in the village of Lakšárska Nová Ves



Construction of 245 kV ES Opočíněk



New transformer, Duslo Šaľa



SA_A1_Lakšárska Nová Ves, VN238, LV, HV cable and overhead line, HV/LV kiosk transformation station

- In 2022 LiV ELEKTRA, a. s. implemented the project SA_A1_Lakšárska Nová Ves, VN238, VNK, TS, NNK. It was a construction conducted under the project of common interest called ACON, which is an important European project financed by the CEF instrument. The ACON project focuses on the main aspects of the development of smart grids based on smart technologies and new communication elements. The main objective of the ACON (Again Connected Networks) project is to support the integration of the electricity market in the Czech and Slovak Republics. The aim of the ACON project is to efficiently unify the behaviour and activities of system users in order to create an economically viable, sustainable electricity system in high quality and security of supply with low losses.
- The specific line structure was built in accordance with the project documentation and relevant permits in the cadastral areas of Lakšárska Nová Ves and Borský Svätý Jur. Its total length was 4,540 m and consisted of a HV cable line, a fibre optic line and three new HV/NN transformer stations. For LiV ELEKTRA, a. s. it was the first construction of this nature, for which it was necessary to provide personnel and new technological equipment.
- SO 01 – HV distribution
Dismantling of the existing overhead line 238. Connection of existing HV cable, laying of new 22 kV HV cable lineNA2XS(F)2Y with total length of 13,700 m to new grooves, crossing with road of 2nd and 3rd class, crossing with product pipeline DN1200, stream crossing and controlled overpressure in the place of dense forest vegetation. Final land work, geometric plans and engineering.
- SO 02 – LV distribution
Connection of LV distribution lines from TS PS 01 to PS 02 and PS 03.
- SO 26 – HDPE protection for fibre optic cable
Supply and installation of MiDia Dry Core 8.1 & 9.1 fibre optic storage cable routed in parallel with the HV cable runs.
- PS 01 – Replacement of TS 0028-010
Replacement of the existing single column TS 0028-010 with a new kiosk transformer station (TS) from the manufacturer HARAMIA type EH6. The existing LV outlets from TS 0028-010 were reconnected to the TS.

- PS 02 – Replacement of TS 0028-015
Replacement of the existing single pole TS 0028-015 with a new kiosk transformer station from the manufacturer HARAMIA type EH6. The existing LV outlets from TS 0028-015 were reconnected to the TS.
- PS 03 – Transformer station TS
New kiosk transformer station from the manufacturer HARAMIA type EH1. New LV and HV lines were connected to the new TS.

ČEPS, a. s.

OPO – renewal of Opočíněk station (P.0457) construction and assembly works

- In association with Bohemia Müller, we conducted the reconstruction of the 220 kV Opočíněk substation for ČEPS, a. s. The scope of work consisted of dismantling the existing fields and subsequent assembly – 2 feeder fields (V202, V203), 2 transformer feeder fields (T201, T202), 1 busbar switch field, 1 auxiliary busbar switch field and 1 measurement field. The existing central house was structurally modified together with the house for the short-circuit sets, where the new diesel generator was placed.

Building Objects

- SO360 Area collection system
- SO360.2 Drainage system
- SO522.2 245 kV outdoor substation building
- SO525 Diesel generator house
- SO527.1 Cable ducts
- SO528 Central house
- SO542 Physical protection of electrical substation assets (PPP)
- SO640 Car Shelter
- SO690 Internal communications

Operating Files

- PS12 245 kV substation
Complete refurbishment of R245 kV outdoor design with two busbar systems and an auxiliary busbar. The substation has two 220/110 kV transformers, two feeder fields, main busbar coupling and auxiliary busbar coupling field, metering field and busbar earthing field. The instruments are located on auxiliary structures with protection of live parts by position.
- PS33 245 kV substation protection
New digital protection switchboards in houses UDD11, UDD21 and UDD31 including new LV cabling.

- PS41 Control system and measurement
Installation of new control system. The system has a decentralised, two-level, modular structure.
- PS50 Self-consumption
As part of the refurbishment, all DC and AC selfconsumption switchboards were gradually replaced, including complete LV cabling and diesel generator.
- PS61 LAN stations
Two racks of LAN stations with TEK servers, active network elements including new structured cabling.
- PS64 TELCO transmission equipment
For the transmission of information from the 245 kV substation, there was the following equipment installed in the electrical station: WDM, IP/MPLS, SDH, PDHoverIP were installed.
- PS65 Transmission equipment
New PCM transmission equipment which provides communication of comparison and distance protectors.

Duslo Šaľa, a. s.

Replacement of HT5 and HT6 110/6 kV transformers

- The aim of the project was to replace the original obsolete 110/6 kV transformers of the specification HT5 and HT6, which supplied the local distribution system, with new transformers to ensure reliable distribution of electricity and increase energy efficiency or reduce operating costs. This exchange also included related construction modifications and renovation of the premises where these transformers were located.

Scope of work within the project:

- Construction modifications (repairs and painting of transformer chamber walls, repair of transformer chamber entrance gates, renewal of entrance gate coatings
- Modification of the transformer station
- Delivery and installation of 110/6 kV transformers
- Design and delivery of a ground choke to compensate for ground capacitive currents with the possibility of automatic tuning via IED connection to the existing Information Control System (ICS)
- Delivery and installation of cabling from the transformer control box to the control room in the length of 150 m and to the LV substation of self-consumption approx. 100 m
- Replacement of sinks from 110 kV collectors to transformer feedthroughs
- Addition of the RIO 600 expansion module for oil level signalling
- ICS modification and tests
- Comprehensive functional control tests

TG-3 generator
outgoing feeder
cubicle control
cabinet, Žilina



Excavation work and
laying of HV cables
– power station
Stupava, power
station Malacky



Modernization
of the distribution
network
in the municipality
of Prietrž



Power System
Flexibility Facility,
Handlová a Cígeľ



Žilinská teplárenská, a. s.

Reconstruction of TG-3 to new parameters

- The subject of the investment project was the reconstruction and repair of worn-out electrical equipment related to the TG3 turbogenerator in Žilinská teplárenská, a. s. The work also included the actual repairs, supplies of materials and spare parts necessary to conduct the reconstruction of the electrical part of the TG3 source on the basis of revision and diagnostic findings concerning the turbogenerator and its parts. The assignment also included the development and submission of project documentation based on which dismantling and assembly work, communication interfaces, all necessary modifications, assembly and repairs, testing and subsequent commissioning were conducted.

Scope of work within the project:

- Necessary dismantling
- Delivery and installation of T40 excitation transformer
- Reconstruction and assembly work related to the HV disconnecter for excitation transformer
- Reconstruction and assembly work of the control and signalling switchboard
- Installation work of measuring current and voltage transformers (CT and VT)
- Assembly work for the reconstruction of insulators and power buses
- Reconstruction of the generator node
- Modifications of cable routes, CT and VT cabling, fire penetrations, barriers, earthing in the dungeon generator and other parts of the operation
- Adjustments in the electricity measurement part
- Reconstruction of the TG3 generator cell space
- Testing and commissioning

Západoslovenská distribučná, a. s.

Cabling within ACON projects: BA_A1_nový VNK_ES Stupava_ES Malacky, VNK

- The investment project called „BA_A1_nový VNK_ES Stupava_ES Malacky, VNK“ was implemented within the so-called Project of Common Interest ACON (Again Connected Networks) for the company Západoslovenská distribučná, a. s. This is a European project funded by the CEF instrument focusing on modernizing distribution systems and applying new communication and intelligent features to the distribution network. The aim of the project

is to support the integration of the electricity market in Czechia and Slovakia as well as to streamline the operation of distribution systems in the given territory with regard to reducing losses, increasing the quality and security of supply.

- As part of this investment project, the interconnection of two substations using HV cable lines was implemented as an alternative solution for supplying the 110/22 kV substations in the „no transformation“ mode. The total length of the new HV cable route was approximately 16.5 km and HDPE conduit was laid together in the route in the same length into which the UOC (underground optical cable) was blown. At the same time, as part of the project, the V604 and V145 overhead lines were partially dismantled and the relevant part of the dismantled part was wired with an HV cable. As part of the project, a part of the HV network from the Malacky power plant was also renewed as well by cabling using MV Cable.

Scope of work within the project:

- Excavation work and overpressure
- Laying of HV cable according to PD (project documentation)
- Blowing of the central heating system and appropriate measurements
- Post-implementation geodetic survey of networks
- Electrical installation work
- Backfilling and landscaping
- Dismantling of overhead lines according to PD

Cabling within ACON projects:

SA_A1_Prietrž, V227 ved., NNK, NNV, VNK, VNV

- The investment project called „SA_A1_Prietrž, V227 ved., NNK, NNV, VNK, VNV „, was implemented within the so-called Project of Common Interest ACON (Again Connected Networks) for the company Západoslovenská distribučná, a. s. This is a European project funded by the CEF instrument focusing on modernizing distribution systems and applying new communication and intelligent features to the distribution network. The aim of the project is to support the integration of the electricity market in Czechia and Slovakia as well as to streamline the operation of distribution systems in the given territory with regard to reducing losses, increasing the quality and security of supply.
- As part of this investment project, the modernization of the HV and LV distribution network and transformer stations was conducted in the cadastre of the village of Prietrž. The total extent of replacement and cabling of HV networks

was more than 16 km of HV cable and about 450 m of LV cable. As part of the construction, 2 existing transformer stations were replaced with new ones, one completely new substation was established and the technology was replaced with a new one in one substation. The cabling also included laying the HDPE conduit in a common trench with the HV cable and blowing the storage optical cable into the conduit. The old parts of the HV air distribution were dismantled.

Scope of work within the project:

- Excavation work and overpressure
- Laying HV cables according to PD (product documentation)
- Laying of LV cables according to PD
- Replacement of old transformers (TS) with a new TS
- Establishment of a new TS
- Replacement of technologies in the original TS
- Blowing the underground optical cable (UOC) and taking measurements
- Implementation or renewal of earthing
- Post-implementation geodetic survey of networks
- Electrical installation work
- Backfilling and landscaping
- Dismantling of overhead lines according to PD

EIF SK 02, s. r. o.

Electricity Flexibility Facility in Handlová and Cígeľ

- In the area Hornonitrianskych baní Prievidza, a. s. in Handlová and Cígeľ, there were 2 constructions of „Zariadenie elektroenergetickej flexibility – Electricity flexibility equipment“ implemented for the purpose of providing support services of the mFRRR type 12.5 min. for the transmission system operator of the Slovak Republic. The purpose of the project was to increase the availability of ancillary services, which is a necessary condition for higher integration of renewable electricity sources into the electricity system of the Slovak Republic.
- The implemented solutions consisted of four diesel generators DG located in front of the building of the 22/6/0.4 kV substation in Handlová, or in front of the building of the existing garages and oil management in Cígeľ. The power output from each DG to the local distribution system was conducted through separate 22/0.4 kV oil transformers with an installed capacity of 1,600 kVA located in kiosks. It was also necessary to build new cable routes, install and revive switchboards and the relevant information and communication Infrastructure.

Replacement of transformer T402 and installation of compensation reactors at the substation, Podunajské Biskupice



Transformer installation 400/110 kV, Podunajské Biskupice



Construction of a New 110/22 kV R8141 Substation, Mierovo



Unmanned 110/22 kV substation, Mierovo



Scope of work within the project:

- Buildings of T1/T2 and T3/T4 kiosk transformer stations
- Diesel generator stations DG1 to DG4
- Construction modifications in the M0701 converter
- HV cable distribution systems
- HV and LV substation
- Transformers and power output from DG
- ICS and transmission equipment
- Terminal ADCS Automatic dispatcher control system)
- Billing metering
- Grounding network and lightning conductor
- Actual consumption

Slovenská elektrizačná prenosová sústava, a.s.

Replacement of Transformer T402 and Installation of Compensation Chokes at the Podunajské Biskupice Substation

This investment project of the client SEPS was part of the Danube InGrid initiative, funded by the European Union to support the development of power transmission systems. The aim of the project was to enhance the reliability of 400/110 kV transformation for the associated 110 kV distribution network, increase the transformation capacity in the given nodal area, and improve voltage regulation conditions in this part of the transmission system. The project involved both civil and technological works carried out during normal operation of both the 400 kV and 110 kV substations, which required increased occupational safety measures.

Brief description of the scope of work completed under the project:

- Dismantling and demolition of original structures
- Construction of a new transformer bay with fire protection walls, and a bay for compensation chokes
- Construction of foundations for load-bearing steel structures and fire protection structures in the 400 kV and 33 kV substations
- Cable trenches, internal roads, drainage system, emergency containment tank, etc.
- Main grounding grid, operational lighting, etc.

Regarding the operational units and their systems, a brief description of the installed equipment:

- Complete dismantling of existing technological equipment
- Installation of a 400/110 kV transformer and compensation chokes
- Technological components within the 400 kV and 33 kV substations
- Electrical protections, protection information system, control and information system, automatic voltage regulation for the transformer, technology monitoring system, and measurement of electrical energy consumption and quality
- Auxiliary transformers and auxiliary switchgears
- Internal communication systems within the substation
- Grounding network

Extension of the Podunajské Biskupice Substation + Retrofitting of Busbar W2

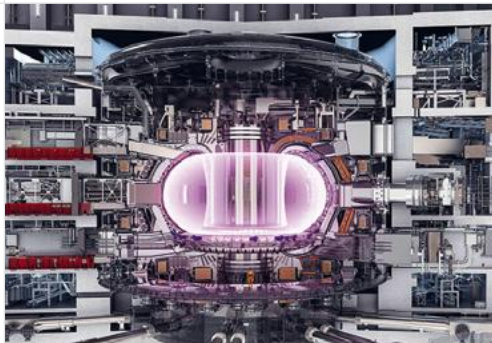
- LiV ELEKTRA, s.r.o. also carried out, in close succession, a second major project within the 400 kV Podunajské Biskupice substation. This project involved the extension of the substation by one bay - Bay No. 08, including the associated secondary equipment, auxiliary power distribution boards, metering switchboards and the RIS, as well as the instrumentation retrofitting of busbar W2. The purpose of this extension was to provide a new connection arrangement for the existing V489 line from the Stupava substation and the future 400 kV line from the Vajnory substation. At the same time, retrofitting of busbar W2 will provide the operator with greater flexibility when performing operations and maintenance activities within the substation. The investment was financed by the investor from its own resources as well as through the European investment project Danube InGrid, aimed at modernising, interconnecting and improving the efficiency of power grids. Construction work commenced at the end of 2024 and was completed in September 2025.
- Overall, the project consisted of four building structures (SO), namely SO 323 Temporary Fencing; SO 321 Internal Fencing Separating the Transmission System and Distribution System Switchyards; SO 522.1 Outdoor 400 kV Switchyard, which primarily involved the construction of new foundations for the newly installed diverter and finally SO 525 Cable Ducts, which were constructed to route cabling to the individual devices.

- From a technological perspective, the project included the following PS (operating units), as well as various modifications, additions, settings and tests associated with the addition of Bay 08:
- PS 07 – 400 kV Switchyard
- PS 30.1 – RIS – Central Equipment
- PS 30.2 – RIS – Interfaces with Technological Equipment
- PS 30.3 – Electrical Protection Systems
- PS 30.4 – Electrical Energy and Power Quality Metering
- PS 30.6 – Protection Technology Information System
- PS 30.7 – Technology Monitoring System
- PS 30.8 – Internal Communications within the Substation
- PS 50 – Auxiliary Power Supply
- PS 61 – Interface with ASDR
- PS 62 – Transmission Links

NZ_G1_Nová Vieska, MV Cables, MV Overhead Lines, Transformer Substations

- LiV ELEKTRA, s.r.o. carried out a cabling project in the municipality of Nová Vieska in 2024 and 2025. The project included the installation of new kiosk-type transformer substations TS 0038-005, TS 0038-007 and TS 0038-0014, a new single-pole transformer substation TS 0038-012, the replacement of the old lattice-type transformer substation TS 0038-3 with a new pole-mounted transformer substation (PTS), and the connection of the existing single-pole transformer substation TS 0038-006 via an MV cable to a new sectionalising switch-disconnector. The works also included the replacement of several sectionalising switch-disconnectors on existing support structures; the replacement of existing LV overhead-line support structures with new ones; the installation of LV cables; and the laying of MV cables, carried out largely using controlled horizontal boring and partly by laying the cables in excavated cable trenches. The cables were terminated at the newly constructed transformer substations, and the associated earthing systems and other related works were also completed.
- The project also included the laying of underground fibre-optic cable (ÚOK) and the installation of associated cable chambers located near the individual transformer substations and/or support structures.
- In addition to the installation works, the contract also included the dismantling and removal of old equipment and existing MV and LV overhead lines.

Fusion experimental reactor – ITER project



CERN European Organization for Nuclear Research, Geneva, Switzerland



JRC Karlsruhe, Laboratories – new wing M



NPP Hinkley Point C, Great Britain



Západoslovenská distribučná, a. s.

Construction of the New 110/22 kV Substation R8141 ESt Mierovo

The investment was financed through EU funds under the Danube InGrid project. The aim of this investment was to build a completely new 110/22 kV substation in the Mierovo area to enhance the reliability of power distribution and to ensure power supply for both existing and future consumers in the region. The substation was designed and built as a permanently unattended facility, equipped with a control and information system enabling remote operation from the distribution company's control centre.

Brief description of the scope of work completed under the project:

- Construction of a new common operations building with full technological equipment
- Development of technical infrastructure
- On-site internal roads
- Bays for chokes and 110/22 kV power transformers
- Construction of the 110 kV substation, including all structural components, foundations, load-bearing steel structures, fire protection structures, cable trenches, pylons, etc.
- Installation and embedding of all technological units and components, including primary and secondary equipment, integrated into functional systems in both the 110 kV substation and the operations building (e.g., 110/22 kV power transformers, chokes, switches, disconnectors, instrument transformers, busbars, conductors, insulators, protection systems, LV switchboards and MV switchgears, auxiliary power systems, control and information systems, grounding systems, etc.)
- Installation of perimeter fencing and internal security fencing, area and working lighting, and security systems
- Testing and commissioning of the substation

Nuclear Energy – Abroad

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 installation of field instrumentation
- 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 to a magnetic induction of 21mT
 - Manufacture and supply of switchboards
 - Support at launching



CERN – European Organization for Nuclear Research, Geneva, Switzerland

- Supply and manufacture of LV control and power switchboards for the cooling systems of the ATLAS and CMS 2PACL CO2 detectors, comprising the serial production of 22 cabinets

JRC Karlsruhe – Laboratories – New Wing M

Supply of technical building equipment – TGA section

- Electrical engineering, control and communication systems, and radiation protection measurement technology for the construction of Wing M (“Wing M”) at the Joint Research Centre (“JRC”) site in Karlsruhe. The Contractor undertakes to perform the services relating to the systems and equipment, in particular in accordance with the technical specifications, recognised standards and the terms and conditions of this Contract.

Block supervision room of unit V2 of NPP Jaslovské Bohunice,



NPP Mochovce



Measurement and control technology of NPP Mochovce



Hinckley Point C Nuclear Power Plant – Great Britain

Installation of field instrumentation in the reactor building and control system rooms, including preparation of documentation, installation of sensors, junction boxes, and cabling.

Systems under our responsibility:

- KIR (Loose Part Monitoring System and Vibration Monitoring System):
- Loose Part Monitoring System (monitoring of loose parts in the primary circuit)
- Vibration Monitoring System
- RCV – system for measuring boric acid concentration in the primary circuit
- RPN (Excore Instrumentation System) – neutron flux measurement
- RIC (Incore Instrumentation System) – electrical platform on the vessel head. Cable installation
- RGL (Rod Position Control and Monitoring System) – system for controlling and monitoring the position of rods

Project SILT1 Leibstadt, Switzerland - Modernisation

- Electrical installation work – Replacement of TXS switchboards for backup diesel generators Div. 11 during outage – transport, dismantling, and installation of switchboards, and connecting cabling to the new switchboards

Nuclear energy in Slovakia

Jadrová a vyrábóvacía spoločnosť a.s.,

- Dismantling of systems in the controlled area – project of electrical section D4.4.C
Preparation of the execution design for electrical systems in the controlled area of the decommissioned equipment of V1 nuclear power plant, aimed at ensuring power supply for HVAC, radiation monitoring, fire protection, and control systems, subsequent modification of existing equipment, implementation of new system components, and installation of power and signal cables for equipment designated for decommissioning.

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

Nuclear Power Plant V-2 – Units 3 and 4

- Replacement of 0.4 kV ARV-type circuit breakers with Siemens and Schneider breakers, including preparation of execution design and DSV (design specification), delivery of breakers with retrofits, and execution during the NPP outage
- Modifications, updates and engineering support of software and corrective maintenance of TPS hardware – SW modifications, algorithm corrections, addition of new functions, application of security patches, etc. at all levels of the information system from PLC data acquisition, through communication and computation modules to data visualization and archiving as well as updating SW of third party (Windows, Linux, VMWare)
- Upgrade of the central system of PI SE a. s. – simplification of data transfer from EBO V2 to the central system and addition of several levels of firewalls and security features
- Implementing measures of Open Phase Condition – replacement of protections for non-system 6 kV switchboards B18150/1 – project development, delivery, installation and tests
- Modification of TQ ultrasonic sensors
- Reconstruction of the ZSTG system on Units 3 and 4 of the SE-EBO nuclear power plant
 - Replacement of electrical excitation and protection switchgears for the diesel generators on Units 3 and 4 of SE-EBO, including project documentation, supply of materials and equipment, installation, testing, and commissioning

- Modification of measuring systems in the hydrogen combustion contact apparatus – delivery, installation, and testing
- Modification of control circuits for PO and SO systems on Units 3 and 4 of the V2 NPP at SE EBO – design, delivery, installation, and testing
- Replacement of excitation systems for TG31, TG32, TG41, and TG42 – electrical installation work
 - Under IPR EBO 10275, we carry out disconnection of original cabling, dismantling of existing TG excitation switchgears, transport and installation of new switchgears, reconnection of the original cabling to the new TG excitation switchgears, operational testing (OPOS) of the new switchgears, installation of the TG excitation control panel on the control desk (BD). Implementation is scheduled during general overhauls (GO) in 2025 and 2026.
- Adaptation of the TPS (Technological Computer System) for follow-up projects – Emergency pump startup in Mode 6, ZSTG system modification, Modification of the reactor level measurement system
- Replacement of automation systems for the secondary circuit and HVAC automation systems of the primary circuit – installation
 - Dismantling of the original switchgears
 - Delivery and installation of metallic and optical cabling
 - Transport and installation of new switchgears in the non-operational sections of the unit control room
 - Transport and installation of new switchgears in rooms PPR II and PPR III
 - Adjustment of pressure switch (manostat) wiring
 - Implementation will take place during the general overhauls (GO) in 2025
- Modification in the cooler node 1,2TG11,12W01_IPR B22009
 - Preparation of the detailed design documentation for the I&C (Instrumentation and Control) section
 - Dismantling of the original sensors
 - Supply and installation of new cabling within the I&C
 - Supply and installation of new I&C sensors
 - Supply and installation of junction boxes
 - Modification of the TPS (addition of new measurements, modification of TPS fragments, modification of the original measurements)
 - Execution of tests for the I&C section (individual tests, pre-commissioning, and commissioning)
 - Preparation of the as-built documentation
 - Implementation will take place after the outages, during the operation of both EBO V2 units, in the period from 09 to 12/2026

Nuclear Power
Plant Reactor Hall
Mochovce



- Modification of the control circuits of the primary and secondary circuit
 - Preparation of the detailed design documentation
 - Supply and replacement of cabinets, sensors,
 - Execution of tests
- Modification of mobile rectifiers for diesel generators (DG) at EBO
 - Preparation of the detailed design documentation
 - Supply and installation of cabinets, fabrication of structures, cable laying
 - Execution of tests

Mochovce Nuclear Power Plant

Units 1, 2 and 3

- Repair of cabling for JEC temperature measurements – repair of cabling, supply of new temperature sensors and materials
- Electrical installation works at the EMO12 plant – replacement of luminaires
- Diagnostics and servicing of steam traps at the EMO12 plant
- Atmospheric vent stations - Overhaul
 - Preparation of design and execution documentation, implementation of modification and testing in the BELT control system
 - Maintenance work on electrical equipment at SE EMO
 - Maintenance and repair work, and fault elimination on electric motors and generators.
 - Repairs, maintenance, and fault elimination on actuators
 - Repairs, maintenance, and fault elimination on medium- and low-voltage electrical distribution equipment, transformers, and electrical installations
 - Repairs, configuration, and testing of circuit breakers Schneider Compact NS, Masterpact NT and NW, Compact NSX
- Maintenance work involving repairs to electrical equipment at SE EMO:
 - Maintenance and troubleshooting of electric motors and generators.
 - Repairs, maintenance and troubleshooting of servo drives.
 - Repairs, maintenance and troubleshooting of high- and low-voltage electrical distribution equipment, transformers and electrical installations.
- Modification of the TELEGYR TG809 Control System – SE EMO Units 1 and 2
- Development and delivery of complete execution design documentation (preparation of OPP, BPP, TPP, programmes FAT, FS, pre-commissioning and commissioning tests, preparation of the project schedule (HMG), cybersecurity documentation, and quality plans for selected equipment for approval by the Nuclear Regulatory Authority (ÚJD))

Tanks of emergency
systems of NPP
Mochovce



Impulse tube routes
of NPP Mochovce



Hydroelectric
Power Plant



- Project management; supply of software, including documentation, licences and software tools
- Supply of I&C and electrical (ELE) equipment and components, cabling and materials
- Dismantling and installation of electrical and I&C equipment and components, including cabling
- Software configuration, validation and verification of the implemented software
- Execution of pre-commissioning and commissioning tests
- Training of SE personnel
- Preparation of Technical Documentation Guideline, As-Built Documentation, and As-Built Documentation for Design Modification for the operation of equipment
- Implementation will be carried out in stages from 2026 to 2029

Maintenance of 6 kV substations EMO3

- Maintenance of 6 kV switchgears
- Cleaning
- Diagnostics
- Testing of MV switches
- Testing of electrical protection systems
- Interfaces with the control system
- Establishment of a Support Centre for Nuclear Power Plant Unit Commissioning and Modernisation
- Overhauls and repairs of internal leaks on PSA valves during RGO1/25 – performance of fitting, installation and related works to the extent required for the overhaul.
- Maintenance of specific valves during RGO3/2025 at EMO – performance of maintenance work to the extent required for routine repairs, overhauls, lubrication, resealing, inspections, cleaning and checks of specific valves, valves and check valves during the RGO3 outage
- Comprehensive maintenance solution for routine repairs and overhauls of 3LBA quick-acting valves – preparation of the required documentation and specification of spare parts, and preparation for implementation in the following calendar year for an air-operated valve and an oil-nitrogen-operated valve
- Rectification of leaks and defects in quick-acting valves / Rectification of a leak in the pneumatic system of quick-acting valve 3LBA63AA007-P001 – dismantling of the valve, resealing and restoration of the actuator to an operational condition.

Unit 4 – Completion

- Design and engineering activities related to the preparation of design documentation for the electrical (ELE) and I&C systems for the conventional and nuclear islands, including on-site verification of the documentation and support for the

- client’s teams (SE MO34) during post-installation inspections, system energisation and commissioning
- 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 110 kV back-up power substation
- Implementation of the JOB12 Contract – engineering activities, supply, installation, inspection and testing, including commissioning of selected I&C and electrical equipment for the nuclear island, comprising process parameter measurement and control sensors; impulse-line tapping and drainage systems and sampling systems for process parameter sensors; hermetic and non-hermetic tube penetrations; manufacture and installation of stands and support structures for sensor impulse lines; hermetic and non-hermetic cable penetrations; analysers and chemical panels for measuring chemical and process parameters; main and secondary cable routes, including cable supports and supporting structures; cable laying and connection; fire-resistant sealing of non-hermetic cable penetrations and openings; and fire protection and earthing of cable routes and penetrations
- Building wiring for conventional island on Unit 4 – installation of light and socket wiring, lightning conductor, circuit recovery
- Servicing, maintenance and repairs of access control systems and industrial CCTV systems.
- Establishment of a Support Centre for Nuclear Power Plant Unit Commissioning and Modernisation
- Activation and commissioning of TG41 (7 units) and TG42 (7 units) extraction check valves at Unit 4 – installation of designated technical equipment and performance of professional inspections and tests
- Inspection and commissioning of oil-filled hydraulic accumulators of the high-pressure hydraulic system of the turbine condenser bypass station and the high-pressure turbine oil system for TG41 and TG42 – inspection, reassembly, leak testing, completion of documentation and issuance of inspection reports
- Replacement of diaphragms in the HP sections of the Unit 4 turbines – mechanical installation of the diaphragms on TG41 and TG42 in accordance with DOOSAN requirements and technical specifications

Heating Plant,
Martine



- Rectification of defects and leaks on quick-acting valves RČA 4LBxXAxxx of Unit 4 and comprehensive testing thereof prior to the commencement of active testing
- Contract awarded under preparation - Inspection and commissioning of Wier safety valves – implementation in the following year

Unit 4 – support during the commissioning of the unit

- Validation and verification of measurement circuits (I&C, INCORE, EXCORE and noise diagnostics)
- Activation and adjustment of the end positions of actuators (shutoff and control servo drives, high-speed valves and non-return valves)
- Participation in automation tests, technological and pressure tests
- Changes in sensor ranges, configuration and setting of parameters for special measurements according to customer needs
- Activation and calibration of chemical measurements
- Activation, calibration and adjustment of air conditioning systems
- Shift support for 24/7 operation during the hot hydrotesting, physical start-up and energy start-up phases, for the area of actuators and I&C
- Finding errors, removing defects and backlogs found in the commissioning process



CHP Units at the
Martin Heating Plant



Thermal power plant
Felton, Cuba

Jadrová a vyrad'ovacia spoločnosť a. s. Bratislava

- 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
- Project for the completion of spent nuclear fuel (SNF) storage capacity at the site of Jaslovské Bohunice
 - temporary power supply for cranes, operational power distribution
 - installation and supply of electrical systems, ICS systems, I&C and construction electricity
- Reconstruction of the CTW – chemical treatment water to DSW – deionised service water – production of electrical and ICS switchboards, installation of new measuring circuits, programming of PLC automats for communication with the production line for deoxidised utility water production and provision of information gathering from the electrical part to the CIS
- Modification of air supply to activation tanks at the WWTP electrical installation works



Steam boiler room
in the heating plant of
Slovenské cukrovary
Sered'

Hydroelectric power plants – HPP

- Modernization of alarm controllers HPP Nové Mesto and Váhom TG1, TG2, HPP Horná Streda TG1, TG2, HPP Dubnica nad Váhom TG1, TG2

General deliveries in the energy sector

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

Power plant Planta Centro, Venezuela

Reconstruction of 400 MW boiler No. 5

- 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
- Branch substation at +6.1 m
- Branch substation for water treatment
- Branch substation for pumping station
- 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

- Providing 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

Tepláreň Slovenských cukrovarov, Sered'

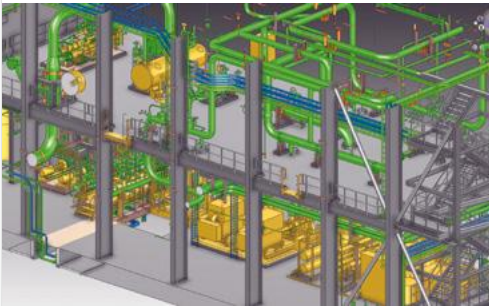
New heat source 2x36 t/h, pressure 12 bar

- Supply of complete project documentation for the building permit and implementation documentation for the work execution
- Preparation of the application for amendment of the integrated permit, including the process of obtaining the building permit
- Construction works necessary for the execution of the work, construction of the building, pipeline bridge
- Supply of 2 Bosch boilers with accessories
- Supply of technology equipment including desulphurisation
- Supply and installation of biogas storage tank including complete pipelines to the heating plant
- Supply and installation of continuous emission measurement

Project Incinerator
Newhurst, UK



Visualisation
of the engine room
in the Newhurst
incinerator plant



Automotive Battery
Manufacturing Plant,
Göd, Hungary



Nexen Tire production
plant, Czech Republic



- Disassembly and reassembly of the existing reverse osmosis system, pre-seasonal service and commissioning
- Assembly and installation of boilers with accessories and other technology equipment
- Supply and installation of transformer substation
- Supply and installation of HV distribution lines
- Supply and installation of external LV distribution lines
- Supply and installation of external low-current distribution
- Supply and installation of lighting and socket installation
- Supply and installation of power distribution systems for technologies
- Supply and installation of EPS
- Supply and installation of GDS
- Supply and installation of CCTV system
- Delivery and installation of the CS for technological processes including a new part of the Emerson superior control system
- Upgrade of an existing Emerson superior control system
- Commissioning, including the approval statement of the Technical Inspection of the Slovak Republic
- Test operation including protocol on measurements taken and criteria achieved
- Preparation of operating and maintenance regulations, list of spare parts
- Operator training
- Approval of the complete work

Modification of LVO combustion technology

- Supply of implementation documentation for the construction of the work
- Construction works necessary for the installation of the LVO storage tanks
- Supply and installation of elements for the modernisation of 2 SAACKE burners
- Modernisation of the existing burner automation
- Supply and installation of 2 storage tanks
- Supply and installation of heated pipework
- Supply and installation of external LV distribution lines
- Supply and installation of external low-current wiring
- Supply and installation of heavy-current distribution systems for technology
- Supply and programming a new part of the Emerson master control system
- Upgrading of the existing Emerson master control system
- Commissioning
- Test operation including report on measurements taken and criteria achieved
- Preparation of operating and maintenance manual
- Operator training

Municipal waste incinerators

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 Incinerator SLOUGH MULTIFUEL (Great Britain)

Engineering activities – preparing the realisation project of the ELEKTRO part including 3D model

SKELTON GRANGE Incinerator Project (United Kingdom)

Delivery and installation of electrical installation on the project of construction of a facility for the recovery of municipal solid waste, in the scope of:

- Production, supply and assembly of junction boxes
- Installation of encapsulated conductors, delivery and installation of main and secondary cable routes, earthing, instruments, components, impulse lines
- Laying of HV, LV, communication cables (I&C and optical fibres) including their connection
- Sealing fire passages in e-houses and ducts
- Cable testing in accordance with BS 7671
- Engineering support during the implementation of the work

Doosan Lentjes, Germany

MHKW Wiesbaden

- Engineering works
- Primary and secondary cable trays

- TerminalsPower and control cables and associated materials
- Cable glands
- Junction boxes
- Auxiliary steel structures
- Mechanical installation of all electrical equipment (transformer station, LV/MV switchgear, UPS, frequency converters, RIO cabinets)

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 110 V DC and 400 V 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

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
- Implementing the electrical extension of the main building of Complex 2 with production lines No. 13 and 14
- Wiring and complete testing of MV transformer cables in the electrical substation for the secondary buildings of Complex 2

Project NEXEN TIRE (Czech Republic), Phase 3 – Automated Tire Warehouse.

Scope of electrical installation work:

- Supply and installation of MV and LV distribution systems, including earthing and lightning protection systems.

TESLA GIGAFACTORY
electric vehicle factory
Berlin, Germany



- Provision of all required testing, inspections and commissioning of the supplied equipment.
- Development of execution design documentation
- Manufacture and installation of switchboards
- Supply and installation of main and emergency lighting systems
- Supply and installation of sensors and thermometers
- Supply and installation cable lines
- Supply and installation of a diesel generator

Factory for electric vehicle production TESLA GIGAFACTORY BERLIN (Germany)

Preparation, adjustment and modification of the implementation project in 3D model

Technical and construction wiring in the scope of:

- Manufacture and supply of lv switchboards (mcc, power panels, lighting panels, local control boxes)
- Installation of hv and lv substations
- Supply and installation of busbar system
- Supply and installation of grounding and lightning conductors
- Supply and installation of main and secondary cable routes
- Supply and installation of cabling
- Supply and installation of lighting, including emergency lighting
- Installation of electrical and ics equipment
- Inspections, recovery and commissioning
- Power supply and implementation of photovoltaic panels
- Delivery and installation of air conditioning
- Supply and installation of HVAC pipes

CJ FOODS Hungary Project Food Production Plant (Hungary)

Technological and building electrical installation in the scope of:

- Production and supply of LV switchboards (MCC, power panels Hygienic Design, lighting panels, local control boxes)
- Supply and installation of grounding and lightning protection
- Supply and installation of primary and secondary cable trays
- Supply and laying of cabling
- Supply and installation of lighting, including emergency lighting

Duslo Šaľa – boiler
house with new K8
boiler



- Inspections, energization, and commissioning
- Supply and installation of a camera system for license plate recognition
- Outdoor and underground works, installation of concrete manholes, and cable laying in underground ducts
- Installation of EV charging stations
- Supply and installation of EPO (Emergency Power Off / Power Cut) for power disconnection in the event of an emergency or fire

Kablitz GmbH, Germany

Project of the New Biomass Boiler at the Wismar Pellets Plant for Waste Combustion from Wood Pellet Production

- Supply and installation of main and secondary cable routes
- Supply and installation of external low-current ducts
- Supply and installation of high-current distribution systems for technologies
- Installation work in the transformer station for power output from the turbine generator
- Installation and wiring of MCC switchboards
- Assembly and wiring of RIO control cabinets in the field
- Testing of cable systems, instrumentation and optical networks

DÜRR SYSTEMS AG (Germany)

Construction of a New Paint Shop at the AUDI Plant, Neckarsulm, Germany

- Delivery and installation of cable routes
- Delivery and installation of main and secondary power cable lines
- Installation of LV system switchboards
- Delivery and installation of low-current cables and connection of technological equipment
- Delivery and installation of communication cable lines
- Individual and functional testing
- Measurement reports for communication networks (PROFIBUS, Optika)

TESLA Blue Planet s. r. o., Netherlands

BESS – Wanneperveen NL – 7 containers

- Supply and installation of battery storage systems, including the preparation of project documentation

Industry – Slovakia

Duslo, a. s., Šaľa

• SW and Cybersecurity Upgrade – UGL1

Supply of materials and services associated with the upgrade of the YOKOGAWA DCS at the SBU A – UGL1 – RPD (Execution Design Documentation), DSV (Design Specification) – (AS RTP), including material supply, manufacture of switchboards, FAT testing, on-site installation, OPOS, testing, YOKOGAWA DCS software development/ configuration, and YOKOGAWA DCS cybersecurity

• Restoration of PPD Production in Building 44-15 – I&C and Electrical Systems

Supply of materials and services associated with the modification of PPD production at the SBU O – PPD facility, including material supply, modification of control and electrical switchboards, OPOS, testing, and YOKOGAWA DCS software development/configuration.

• Addition of Remotely Operated Valves in the Ammonia Water Production Unit, on the Cooling Water Outlet from E-504 and on the Hydrogen Line to HTER – YOKOGAWA DCS

Supply of services associated with the modification of the process technology at the SBU A – ČP4 facility, including YOKOGAWA DCS software development/configuration

• Repair of the Emissions Evaluation System for K6 and K7

Supply of services associated with the modification of the AMS for boilers K6 and K7 at the SBU E – Heating Plant facility, including YOKOGAWA DCS software development/ configuration

BIOTIKA, a. s., Slovenská Ľupča

• Assistance with I&C Calibration during the Production Shutdown

Provision of services related to the calibration of I&C equipment at the production facilities

Slovnaft, a. s.

Online corrosion monitoring system

The objective of the project is to ensure the integrity, operational availability, and safety of selected distillation units at the Slovnaft refinery, specifically the Atmospheric Distillation Unit 5 (BADU5), Vacuum Distillation Unit 5

Slovnaft Bratislava



Slovnaft – Polypropylene Unit (PPJ)



POZAGAS a. s., pressure transmitters



Renewal of NN distribution lines Nafta a. s.



Nafta a. s.

(BVDU5), and Crude Distillation Unit 6 (BCDU6). This objective can be most effectively achieved through the implementation of a wireless online corrosion monitoring system for critical equipment. The corrosion monitoring system helps monitor the effects of processing various crude oil types, prevent leaks and unplanned outages, and supports better maintenance planning to avoid critical equipment failures and downtime.

Included in the project:

- development of a detailed design for engineering, procurement, installation, in accordance with valid STN standards and Slovnaft’s internal specifications (MGS-S-REF-M).
- installation of sensors, probes, and coupons, including:
 - ultrasonic thickness sensors (UT) (289 pcs)
 - Electrical resistance corrosion probes (ER) (6 pcs)
 - Mass-loss corrosion coupons (3 pcs)
- calibration of the ultrasonic sensors provided
- WiFi network installed to ensure uninterrupted operation
- additional instrumentation and computer network installed in control rooms.
- lightning protection provided for antennas
- Emerson Plantweb™ Insight information software delivered, ensuring the relevance of Slovnaft cybersecurity
- training for the relevant Slovnaft personnel provided

Electrical & Instrumentation Installation - Slovnaft a.s. - on PP3 polypropylene unit

- dismantling work
- supply and installation of cable trays
- supply and installation of small steel structures
- supply and laying of MV, LV, instrumentation, and control power cables
- supply and laying of instrument tubing
- supply and installation of heating cables and accessories
- supply and installation of insulation
- installation of busbar systems
- installation of switchboards, cabinets, instrument panels, and junction boxes in substations and buildings
- installation of pressure and temperature measurement instruments
- supply and installation of grounding systems, lightning protection, and cathodic protection
- supply and installation of lighting
- installation of CCTV systems and field equipment
- functional and acceptance testing, functionality tests
- tests, loop tests
- preparation of documentation

POZAGAS a.s

Replacement of central unit, cabling and PDS sensors in ZS6

The project involved the preparation of design documentation for the replacement of the Gas Detection System (PDS) central unit, switchboard, and sensors, due to scheduled equipment renewal at the ZS6 collection centre, and subsequently:

- Connection of the new PDS central unit and installation of new sensors for monitoring air explosiveness
- Programming of the central unit outputs to enable central unit shutdown.
- Dismantling of the existing PDS unit and sensors

40-2024-4780_POZAGAS_Protection of equipment against lightning strike ZS7

The project included the preparation of design documentation for implementation, followed by the implementation of the project for the protection of the overhead part of the technology and electrical equipment at the collection centre ZS7 against the dangerous effects of lightning and static electricity by reconstruction and addition of lightning protection system and grounding according to STN EN 62305 at the centre ZS7.

Modification of safety valves on ZS6 probes - stage 3

The project included the preparation of design documentation for implementation, followed by the implementation of the project.

- installation of solenoid valves into hydraulic circuits (supplied by NAFTA, a.s.)
- installation of pressure sensors into hydraulic circuits (supplied by NAFTA, a.s.)
- installation of position limit switches (supplied by NAFTA, a.s.)
- supply and installation of terminal boxes
- electrical connection of devices to the control system within switchboards DT-Mxx/MZxx
- installation of new grounding systems on selected well pads to replace non-compliant grounding networks
- construction of a new lightning protection system on each selected well pad, in compliance with the STN EN 62305 standard series.

• Capture of Natural Gas Venting at TKG1–TKG3 – Electrical Part

The project focused on 4 main sections of NAFTA’s investment initiative - capture of natural gas venting:

- **SO 508.3 Electrical Fire Alarm System:**
 - Installation of additional warning indicators for the new recompression hall, installation of buzzers, beacons, and sirens in explosion-hazard areas
 - Installation of terminal boxes (MX-EPS), surge arrestors, intrinsically safe modules, and barriers
 - Commissioning of the complete EPS system
- **PS 025.3 Gas Detection System (PDS)**
 - Specification, delivery, and installation of new explosive and toxic gas and vapor detectors in the new recompression hall, including associated cabling
 - Cable connection of alarm signals from the PDS panel to switchboards DT01SCS and DT01-ESD
 - Connection of communication cards
- **PS 018.4 – I&C and Technological process control system (TPCS)**
 - Installation of selected I&C and TPCS devices and components
 - Installation of control system cabinet JB40 for the recompression unit
 - Signal wiring between cabinet JB40 and existing UCS-TKG1/TKG2/TKG3 switchboards
 - Supply and installation of cabling for connection of new valves and pressure transmitters from process technology
- **PS 021.3 – Process Control Cabinet (PRS)**
 - Supply and installation of new RM6 switchgear
 - Supply and installation of new RUPS06 switchgear
 - Installation of a new UPS system for powering the UCP (control panels)
 - Modifications to MCC1/2/3 switchboards

NAFTA_CAG Control System Upgrade 2025 – Stages I and II – Installation Works

Upgrade of G2 – DT02-SCS, G3 – DT03-SCS, G1 – DT-HO, G1 – DT-LAB3

Extension of the existing control system chassis, replacement of the CPU, and addition of communication, AI and DI cards. Installation of intrinsically safe isolators and associated power supply circuits. Removal of 1797-IE8H and 1797-IBN16 modules, 1797-PS1N power supplies and 1794-ACNR communication modules.

Natural gas blow
off recovery



Natural gas blow
off recovery –
electrical scope



U. S. Steel Košice
plant



Mondi SCP
Ružomberok



**NAFTA_CAG Control System Upgrade 2025 – Stage III,
PS 018.2 – I&C and SRTP for KS**

Upgrade of G2 – DT02-SCS:

Extension of the existing control system chassis,
replacement of the CPU, and addition of communication,
AI and DI cards.
Installation of intrinsically safe isolators and associated
power supply circuits.
Removal of 1797-IE8H and 1797-IBN16 modules, 1797-
PS1N power supplies and 1794-ACNR communication
modules

**NAFTA – Works for ENSECO – Upgrade of TEG ZS3
Control System**

Dismantling of electrical and I&C systems; supply and
installation of new switchboards, cables, cable routes,
pressure, temperature and flow sensors; installation of new
isolated lightning protection systems and an earthing
system.
Testing and commissioning

**NAFTA – Upgrade of Methanol Injection Systems at Wells
of Structures 3 and 1**

Project preparation and execution of works:
Supply and installation of new methanol (MeOH) container
tanks, including the injection technology
Connection of LV and M&C technology to new electrical
cabinets. Testing and commissioning

**NAFTA – Rectification of Deficiencies Identified during
Inspections at the ZS6 Gathering Station**

Retrofitting of switchboards with intrinsically safe isolators
and surge protection devices
Removal and installation of cables between the existing and
new equipment.
Testing and commissioning

**NAFTA – Remote Monitoring of the Electrical Network at
HBZS**

Installation of additional monitoring and signalling
equipment which, in the event of a power failure at the Main
Mine Rescue Station (HBZS) in Lozorno, alerts the operating
personnel via SMS and telephone call. Testing -
commissioning

**NAFTA – Performance of Regular Inspections of
Electronic Fire Alarm Systems (EPS) and Gas Detection
Systems (PDS) at the ZSG2, ZS Gajary-Báden and ZS6
Gathering Stations.**

U. S. Steel Košice

**Electrical Installation Works at ZPO1 (emergency
situation following a fire at the plant)**

- Execution of electrical installation work – cable laying and
wiring of switchboards (control, automation, and power
cables)

**Installation of O2 Measurement Systems in the Coke
Plant Control Room**

- material deliveries
- on-site installation
- preparation of inspection reports
- installation of heads with vortex coolers on existing mating
flanges
- installation and connection of utility panels (UOP)
- equipment commissioning and participation in testing
- official inspection by an authorized testing body (OPO)

**Repair of wiring, measurement and control and auxiliary
drives for turbocharger TD1, TD2, TD3, TD4 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

Repair of PZ2 drives

- Supply and installation of cable routes
- Supply and installation of I&C cabling
- Supply and installation of power cabling
- Installation of switchboards and local control cabinets

Mondi SCP, a. s., Ružomberok

**Backup Power Supply Project for Structure 24.S –
Cooling Towers**

- Preparation of execution design documentation
- Supply and installation of secondary distribution boards in
Structure 16.02a – Plate Heat Exchangers and Structure
24.S – Cooling Towers
- Supply and installation of main cable routes on the steel
pipe rack, on the external concrete walls of Structure
16.02a – Plate Heat Exchangers, and on the internal wall
of Structure 24.S – Cooling Towers.
- Connection of new switchboard bays: Bay 8 of switchboard
9S01_RH_01 and Bay 7 of switchboard 234_RM_HRM.
- Supply and installation of cable connections.
- Implementation of switchboard interlocking.
- Pre-commissioning and commissioning tests, issuance of
OPOS documentation, and commissioning

Carmeuse Slovakia



Increase in O2 Mixer Capacity – PRS and Process Control System (AS RTP)

AS RTP scope for the new motor

- Installation and adjustment of the flow switch and pressure switch
- Adjustment of the limit switches of the ON/OFF valve
- Supply, installation and removal of junction boxes
- Supply, installation and removal of the associated cable connections
- Assistance with pre-commissioning and commissioning testing

PRS Scope

- Retrofitting of switchgear 38-MCC-14 – removal,
- modification and reinstallation of the complete motor module
- Installation of an additional disconnecter and surge arrester
- Removal and installation of the associated cable connections

Carmeuse Slovakia, s. r. o.

Vápenka (limeworks) Košice: PS608 – LV Fuel management for new shaft furnaces

- Supply and installation of LV switchgear measurement distributor
- Supply and installation of CIS control information system switchboards
- Installation of new cable routes to the technology in question
- LV cable connections
- Connection of the new equipment supplied to the earthing network
- Revitalisation, participation in FAT tests

Vápenka (limeworks) Košice: PS606 – Transport and treatment of lime for new shaft furnaces

- Installation of LV switchboards
- Installation of DT switchboards I&C
- Installation of RIO stations and SOCOMEC boxes
- Supply and installation of cable routes
- Supply and installation of LV cabling
- Participation in tests

Vápenka (limeworks) Slavec: Automation of the Slavec Plant – Lime Mill and Hydration Station

- Preparation of implementation project documentation for HV, LV, I&C
- Delivery and installation of HV/LV transformer 1,600 kVA
- Delivery and installation of LV RM switchboards
- Delivery and installation of DT and RIO I&C switchboards
- Delivery and assembly of I&C field elements

- Supply and installation of frequency converters and motors
- Supply and installation of cable routes
- Delivery and installation of HV, LV and I&C cabling
- Activation, testing, training

Vápenka (limeworks) Slavec: Automation of lump lime dispatch

- Preparation of execution design documentation for LV and M&C systems
- Supply and installation of LV switchboards RM
- Supply and installation of DT and RIO panels for M&C
- Supply and installation of field M&C components
- Supply and installation of frequency converters and motors
- Supply and installation of cable trays
- Supply and installation of LV and M&C cabling
- Commissioning, testing, and training

KOSIT, a. s. Košice

Replacement of the Woodward Control System for Turbine Generator (TG) Operation

- preparation of design documentation and as-built project after installation
- supply of equipment and installation materials in accordance with the technical specification
- dismantling of existing equipment
- development of user application software (UAS) for the new Woodward Control 505 XT
- installation, commissioning, and testing of the delivered equipment
- accompanying technical documentation for the supplied equipment (test certificates, operation and maintenance manuals, declarations of conformity for major components)
- issuance of inspection reports
- participation in functional testing

ENERGY UTILIZATION OF BOILER K1 - Power supply and control of electrical equipment of the new steam turbine with 999 kW generator

- SO 01 New construction and motor wiring in the affected premises
- PS 05 Turbine power output to the RM 1.3 switchboard in the electrical substation
- PS 06 I&C – Elements of the I&C field for control of control circuits and detection of operating and fault states of the technology, including HW supplementation of the control room and SW programming
- Activation, trial operation

VOLKSWAGEN SLOVAKIA, a. s.

New Construction and Partial Refurbishment of Welding Shop H1

- Supply and installation of lighting with VAGO control system
- Supply and installation of outdoor lighting system
- Supply and installation of emergency lighting via Central Battery System (CBS)
- Supply and installation of cable trays for HV, LV, and IT
- Supply and installation of HV and LV cabling
- Supply and installation of socket outlets 400 V and 230 V
- Connection of technological distribution lines
- Supply and installation of LV switchboards
- supply and installation of grounding system and lightning protection system

Expansion of production capacities – extension H7C, H7D

- Delivery of lighting installation by VAGO control system
- Delivery and installation of outdoor lighting
- Delivery and installation of emergency lighting using the Central Flashlight System
- Delivery and installation of HV, LV, IT cable routes
- Delivery and installation of HV and LV cable distribution
- Supply and installation of 400 V, 230 V socket distribution
- Connection of technological distribution
- Delivery and installation of a 400 V battery-powered connection system
- Delivery and installation of LV switchboards
- Delivery and installation of grounding and lightning conductor
- Construction of 10 transformer stations, of which 8 for halls H1 and 2 for halls H7C and H7D
- Installation of HV terminals
- Installation of dry type transformers from TMC Transformers SpA
- Installation of HV switchboards (8 Siemens NXAir switchboards and 2 PIX switchboards from Schneider Electric)

Jaguar Land Rover Slovakia, s.r.o.,Nitra

Installation of a Busbar Trunking System for the New UPL Paint Line

The project comprised the complete supply and installation of the busbar trunking system, including associated electrical installation works.

Control system,
KOSIT, a. s. Košice



VOLKSWAGEN
SLOVAKIA, a. s.



Jaguar Land Rover
Slovakia, s.r.o.



Eurotalc – talc treatment



Scope of work:

- Supply and installation of busbar connection points
- Installation of the supporting structure for the busbar trunking system
- Supply and installation of cable trays
- Supply, installation and connection of cables
- Modification and replacement of switchboards in the electrical room
- Earthing of switchboards

Installation of Lighting, Emergency Lighting and Lightning Protection for the New UPL Paint Line

The project comprised comprehensive electrical installation works related to lighting and ensuring safe operation of the facility.

Scope of work:

- Supply and installation of cable trays and fire-resistant cable routes
- Installation of luminaires, emergency luminaires and pictograms
- Supply and installation of a central battery system
- Manufacture, supply and installation of a switchboard
- Installation of socket outlet boxes, junction boxes, detectors and control devices
- Supply and installation of steel support structures for luminaires
- Supply, installation and connection of cables
- Supply and installation of a lightning protection system
- Programming of the emergency lighting system
- Measurement of illuminance levels

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

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

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

Wienerberger s.r.o.

Reconstruction of TS, MV, and LV – Zlaté Moravce plant

- Reconstruction of the transformer station
- Supply and installation of the MV switchgear
- Supply and installation of LV switchboards
- Preparation of the detailed design documentation

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

TAURIS, a. s. Rimavská Sobota

Lightning conductor transformer stations and workshops Rimavská Sobota

- Implementation of a distant lightning conductor at the technological operation in the plant in Rimavská Sobota
- Official exam

Essity 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

FELLS Ilava plant



Ikea Industry



Transformer station TS 13, Essity Slovakia



Production plant
Cloetta in Levice



New Generation
Hospital
in Michalovce



New Generation
Hospital in Bratislava



Hospital
in Zvolen



New transformer T13 for production hall 4

- Installation of a new kiosk transformer substation
- Installation of HV supply including HV switchboard
- Installation of a compensation switchboard
- Installation of LV switchboard RH13
- Relocation of power supply to equipment from existing transformers
- Construction modifications for the new transformer substation
- Individual, comprehensive tests, commissioning, staff training, participation in guarantee tests

ZEOCEM, a. s. Bystré

Electrical installation, lightning conductor and LV connection of the KlinomixGranul mixing line

- Delivery and implementation of cable carrier routes
- Delivery, implementation of cabling
- Adjusting the pins of the power array
- Construction wiring and lightning conductor
- Testing, commissioning

Steam-gas power plant in Malženice

- Dismantling and assembly works of the field instrumentation of the combustion turbine at the power plant in Malženice

Bratislavská vodárenská spoločnosť a. s.

- Replacement of electrical switchboards of trolleys LP 3 pcs and LT 2 pcs at ÚSTP Vrakuňa

Faculty of Electrical Engineering and Information Technology of STU in Bratislava

- **Project Revitalization of the interior parts of FEI STU**
Data Centre FEI STU – electrical installation works and material supply, electrical power supply distribution, supply and installation of switchboards, tests and revitalization of components, inspection reports

Expansion of the plant Cloetta in Levice

PS 200.1 Switching station 22 kV

- Dismantling the control cable connected between thermal protection of the T2 transformer in PTS2 and the trip coil of the switch in the switching station

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

Healthcare

Svet zdravia, a. s.

New Generation Hospital in 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

New Generation Hospital in Bratislava

- Supply and installation of heavy-current distribution of electrical system
- Supply and installation of switchboards
- Supply and installation of Medical isolated system
- Supply and installation of lighting and socket system
- Emergency lighting system
- Services: individual, comprehensive testing, commissioning, staff training, participation in guarantee tests

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

Poprad Hospital, a. s.

Increasing the productivity and efficiency of Poprad Hospital, a. s. – reconstruction and extension

- Supply and installation of power electrical installations, cable support systems, and end devices
- Medical isolated power system, UPS, LV connection to the new building
- Individual and comprehensive testing, commissioning, personnel training, and warranty tests

UNMT – Construction of the New St. Martin University Hospital

- **Strategic investment project focused on the comprehensive implementation of high-current electrical infrastructure.** This is a long-term, technologically demanding project for Martin University Hospital. Our involvement covers the entire life cycle of the electrical installation works – from the preparation of execution design documentation (RPD) through to final supply, installation and professional testing. With its scope and value (almost EUR 30 million excluding VAT), the project represents one of our key contracts for the next three years.
- **Integrated technological systems and energy security.** The scope of work includes the installation of high-current electrical distribution systems for the main hospital building, underground car park and critical infrastructure such as the heliport. A distinctive feature of the project is the combination of multiple power sources and backup power systems:

NsP St. James, n. o.,
Bardejov



Hospital
in Stará Ľubovňa



NPP Jaslovské
Bohunice



Duslo Šaľa
plant

- **Smart power distribution:** Installation of transformer substations and site low-voltage (LV) distribution systems.
- **Sustainable sources:** Installation of combined heat and power (CHP) units and a 100 kW photovoltaic power plant.
- **Maximum operational continuity:** Provision of standby diesel generators and central battery systems (UPS and CBS) to ensure the uninterrupted operation of hospital facilities.
- **Specialised facilities:** Power supply for technological systems serving cleanrooms, which are subject to the most stringent hygiene and safety standards.
- **Focus on Quality, Safety and Sustainability (BREEAM).** The entire project is being implemented in accordance with the stringent international BREEAM certification standards, reflecting our commitment to environmental sustainability and the energy efficiency of buildings. The project is being delivered by a team of authorised engineers and specialists, while adhering to the highest standards of quality management and occupational health and safety (ISO 9001, ISO 14 001, ISO 18 001). The work schedule is phased to ensure a seamless transition from the design and planning stage to the implementation stage, enabling efficient coordination with all disciplines involved in the construction project.

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

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
- Technical Inspections and Tests of Electrical Equipment for NPP Units EMO12, EMO34, and EBO34
- 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 SEEMO
- Diagnostics and servicing of GESTRA electrical condensate diverters for SEEBO
- Corrective repairs and maintenance of mechanical equipment in local and detached CZT stations
- Corrective maintenance of the process computers of the primary and secondary circuit controller system
- Service, maintenance and repair of the controlled entry system and CCTV at 5 EMO34 gates – turnstiles, barriers, card readers, cameras, CCTV
- Assistance in repair of control system equipment in SEEBO – service work on ICS equipment as required by the operation during and outside GO
- Maintenance work for repairs of ICS equipment in SE EMO – service work on ICS equipment according to the requirements of the operation during the GO
- Conducting repairs, maintenance work and fault elimination on electrical equipment VH, V, LV – service work on ELE equipment according to the requirements during and outside the GO
- Repair of technological PCs of non-block systems / outdoor objects – replacement of PCs including development of new software
- Diagnostics and servicing of electrically operated MO34 drainage valves
- Corrective repair of condensate drains during the general outage and outside the general outage of Units 3 and 4 of Bohunice NPP
- Corrective maintenance of CS Simatic S7 on technological water units, HVAC, chemical water treatment, TAPROGE, radio-active

- waste bottling station at Units 3 and 4 of NPP V2, central supply station EBO V2
- Corrective repair of CS Simatic S7 and its operator stations OS1, OS2, OS3, OS4 – unmanned operation and remote control of the equipment of Drahovce and Pečeňady nuclear power stations for the EBO V2 NPP
 - Service interventions on SAM DG equipment in SE-EMO – diesel generator service in Mochovce NPP – during emergency conditions
 - Performance of maintenance and interventions for 6 kV electrical switchboards of Unit 3 EMO – annual maintenance on 6 kV NPP EMO3 actual consumption switchboards, cleaning, diagnostics, tests of protection and automation

Jadrová a vyrad'ovacia spoločnosť a. s.

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

We carried out work for VUJE on the expansion of temporary storage capacity for spent nuclear fuel.

U. S. Steel Košice, s.r.o.

- Repairs, maintenance, and service of LV (low voltage) equipment,
- Repair, maintenance, and service of control systems, regulation technology, and I&C (instrumentation and control).

Other Industry

- **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 – Service repairs on electrical and I&C equipment
- **NOVARES Slovakia Automotive** – performance of periodic technical inspections and technical tests on the main switchgear in the NOVARES production hall
- **Bekaert Hlohovec, a. s.** – Replacement of a part of HV cables for Transformers T181 and T182 – replacement of 6 kV power cables
- **Gestamp Nitra, s. r. o.** – Performance of periodic OPOS – performance of periodic revisions of SKR switchboards and lighting in GESTAMP
- **GIB EnergyX Slovakia s.r.o.** – Supply and installation of a transformer substation with MV and LV switchgear, construction power distribution systems including switchboards, and lighting for the site cabin yard

Tunnel Bikoš



Technological Equipment for Road Tunnels, Motorways and Railways

NDS, a. s. – Bikoš Tunnel

Technological equipment of road tunnels:

- Control systems
- Safety technologies
- Power supply (MV, LV, UPS)
- Lighting
- Ventilation systems
- Fire detection, FAS (Fire Alarm System)
- Operator workstations, control rooms

Tunnel Višňové



NDS, a. s. – Višňové Tunnel + ISD D1 Lietavská Lúčka – Dubná Skala

Technological equipment of the longest tunnel in Slovakia (7.5 km) and ISD D1 (13.5 km):

- Central control system (14,000 I/O signals)
- Video surveillance, cameras
- Air quality sensors
- Fire detectors
- LED variable message signs
- Communication infrastructure
- 8-year warranty service

Tunnel Višňové



Motorway D1
Trnava –
Horná Streda



Motorway R4 Prešov – Northern Bypass (km 0 – 4.3)

Complete delivery of the technological part of Bikoš tunnel (2 x 1,150 m):

- Complete HV, LV power supply system
- Backup power supplies: Diesel generator, UPS
- LED-based tunnel main lighting system
- Tunnel ventilation and cross-connection ventilation system
- Measurement of physical quantities
- Delivery, installation of switchboards of the Central Control System, including the SIMATIC S7 control system
- Programming of traffic control system and tunnel technology control system
- Delivery and installation of illuminated and LED variable traffic signs
- Complete Electrical Fire Alarm System (EFS)
- Emergency call devices – SOS cabins
- Tunnel announcement system
- Camera surveillance with automatic incident detection
- Radio communication and broadcasting system of radio stations
- Dispatch phone
- Visualization at the Regional Operator's Office at the Highway Administration and Maintenance Centre in Prešov
- Ventilation and air conditioning of the operational-technological building
- Fire water supply – electrical part

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

- Communication and power infrastructure
- Delivery, installation, integration and control of complete variable traffic signs
- Traffic lights
- Technological nodes
- Signal cut controllers
- Delivery, installation, integration and visualization of weather stations
- Camera surveillance
- Electrical signalling
- SIMATIC S7 control system
- Visualization at the Regional Operator's Office at the Highway Administration and Maintenance Centre in Prešov

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

Highway R2 Kriváň – Lovinobaňa, Tomášovce (section Mýtna – Tomášovce)

- Complete communication and power infrastructure
- Technology nodes
- Controllers for signal sections
- Camera surveillance
- Electrical safety signalling
- LED variable message signs
- Supply, installation and configuration of vehicle counters
- Supply, installation and configuration of a road weather system
- SIMATIC S7 control system
- Visualisation at the operator's unit at the Motorway Administration and Maintenance Centre in Zvolen

Highway R4 Košice – Milhošť, Rest area

- Installation of vehicle weighing system – construction and technological part
- Supply of power switchboards, power cables, fibre optic communication cables, earthing
- LV and telecommunication connection
- Camera surveillance
- Supply and installation of transformer substation
- Supply and installation of outdoor lighting in Rest area

Highway R2 Kriváň
– Lovinobaňa,
Tomášovce



Rest area on highway
R4 Košice – Milhost



Operator workplace of
D1 motorway tunnel
Považský Chlmec



Railways of the Slovak
Republic



Servicing Motorway Information System (MIS)

- Motorway D1 part Dubná Skala – Turany
- Motorway D1 part Piešťany – Sverepec
- Motorway D1 part Sverepec – Vrtižer
- Motorway D1 part k 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
- Motorway D1 part Trnava – Horná Streda

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

Tunnel Horelica

- Servicing changeable traffic signs
- Servicing CCS 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)
- Dispatcher ´s telephone
- Motorway Information System (MIS)
- Repairs of malfunctions

Technical and hygienic maintenance of railway rolling stock in Zvolen

- Supply and installation of lighting towers
- Supply and installation of luminaires
- Delivery and installation of HV connection
- Delivery and installation of electrical pre-heating system distribution
- Delivery and installation of SPC distribution systems
- Delivery and installation of LV distribution systems
- Relocation of cables MK – ŽSR, RK – ŽSR

TSS GRADE, a. s. – MUZ II Košice

Modernization of the maintenance base in Košice, implementation – Phase 2

- Main power distribution
- Power distribution to service nodes: Bodywork repairs, Wheelset turning, Bogie repairs, Tram technical inspections
- Electrical installation, Lighting
- Low-current distribution

Hronský Beňadik Railway Station – Tekovská Breznica Stop – Nová Baňa Railway Station

Reconstruction of railway infrastructure

- Hronský Beňadik Railway Station – modification of outdoor lighting and LV distribution
- Tekovská Breznica Stop – reconstruction of outdoor lighting and LV distribution

D1 Logistics Park
in Senec



Automotive
Industrial Park
in 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, onsite energy distribution, engineering and supply activities:
- ┆ D1 Park Senec
 - ┆ EQT Exeter Park Bratislava
 - ┆ Logistic park Sihot' – Chocholná
 - ┆ Headquarters DHL Senec
 - ┆ Production plant ZF Slovakia Trnava, Levice
 - ┆ Car industrial park APP Lozorno
 - ┆ Logistic park P3 Bratislava Airport
 - ┆ Mahle Behr Senica
 - ┆ Mercedes-Benz Truck Centre Senec
 - ┆ FEROVOPARK Vranov nad Topľou Industrial and Logistics Park

Management and office administration

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

Utilities management

- Servicing, maintenance and repairs:
 - 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 administration 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
- ┆ Car industrial park APP 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
- On-site 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

Optimalization 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 plant Šahy
- ┆ Photovoltaic Power Plant GARBE Piešťany
- ┆ Photovoltaic Power Plant PREFA Sučany
- ┆ Photovoltaic Power Plant Hotel Impozant
- ┆ Photovoltaic Power Plant and Battery Storage Eco-Pack Prešov
- ┆ Battery Storage EIF Svit

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

Multifunctional building Tabáň in Nitra



NTC Košice



Zuckerman del – administrative buildings



Multifunctional complex KLINGERKA



Various Projects

Multifunctional building Tabáň v Nitre

- Delivery and installation of heavy current power electrical distribution
- LV switchboards
- Interior lighting
- Earthing and lightning conductor
- Central torch system
- UPS
- Electrical fire alarm system
- Voice fire alarm
- Ramp heating
- CCTV system
- Data distribution

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 unit
- Supply and installation of outdoor lighting
- Drawing up of the documentation of the actual execution

NTC KOŠICE

- Heavy current, grounding and lightning conductor – implementation of high-current distribution, lighting and emergency lighting in the operational building and in the tennis hall, connection of technological equipment, delivery and installation of LV switchboards, delivery and installation of CBS system, lighting control by the DALI system, performance of necessary tests and measurements
- External LV distribution – earthworks related to the laying of supply cables for outdoor lighting switchboards, area outdoor lighting and other technologies in the exterior, performing the necessary tests and measurements

- Relocation of LV and HV networks – earthworks associated with the laying of LV/HV cables and their completion in external switchboards, performance of necessary tests and measurements
- Public lighting – earthworks related to the laying of supply cables and grounding of the outdoor lighting masts, their installation, installation and connection of outdoor lighting switchboard, performance of necessary tests and measurements
- Area lighting – earthworks related to the laying of supply cables and grounding of area outdoor lighting masts, their installation, installation and connection of luminaires and switchboards setting of outdoor lighting, control by the DALI system, performance of necessary tests and measurements
- Replacement of substitute energy source, delivery and installation of diesel generator in accordance with the valid project documentation, performance of necessary tests and measurements

Eurovea 2

- Supply and installation of electric fire alarm systems
- Supply and installation of voice fire alarm
- Supply and installation of cable routes and cabling
- Supply and installation of low-current distribution systems
- Preparation of the documentation of actual state

Zuckerman del – ČSOB Bank

- Delivery, installation and project of the actual state
- LV distribution
- LV switchboards
- Indoor and outdoor lighting
- Earthing and lightning conductor
- Diesel unit 800 kVA

Zuckerman del – administrative buildings

- Installation of main LV switchboards
- Installation of light switchboards
- Supply and installation of interior lighting
- Supply and installation of PRS (cable routes, LV cables including terminations)
- Connection of technological equipment
- Supply and installation of lightning conductors

Multifunctional complex KLINGERKA – Building SO 02 – Office building

- Supply and installation of heavy-current distribution of electrical system
- LV switchboards
- Internal lighting
- Earthing and lightning conductors
- Central flashlight system
- Installation of LV terminal elements and switchboards

L-Construction, s. r. o.

- New construction of the Multifunctional residential zone, Kopčianska SOUTH – sector C (City of Bratislava)
- Supply and installation of power electrical distribution systems
 - LV switchboards
 - Indoor lighting
 - Grounding and lightning protection
 - Central battery system
 - Installation of end devices and LV switchboards

Final preparation for the delivery of switchboards for Schindler escalators



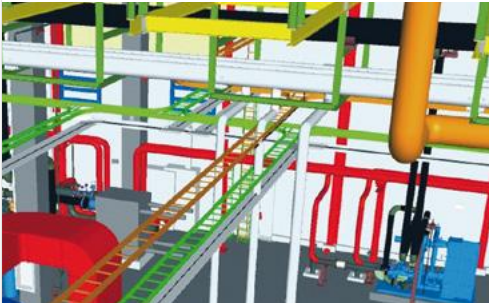
Assembly hall of switchboards for Schindler escalators



Switchboard manufacturing plant assembly hall



3D model of cable routes and supporting structures in a car battery plant for PHEV Nyíregyháza



Production of Switchboards

We are constantly innovating and expanding our competences in the field of quality production and delivery of switchgear in order to meet the expectations and requirements of even the most demanding customers. In 2022, our production portfolio expanded to include the globally recognized SIVACON system – a brand of reliability and quality according to the highest global standards. Thanks to our skilled design team and years of experience in Slovak market and abroad, we have successfully qualified for the Sivacon S8 License, which moved us to the next stage of switchgear production.

SCHINDLER ESKALÁTORÝ, s. r. o.

- Long-term project for serial production and supply of control systems for escalators. The control systems consist of switchboards and external sensors, along with other devices that communicate with each other. The escalators are installed at end users at locations around the world.
- To ensure production capacity, a new functional unit Serial Production Operation (PSV) was established as part of the project in a newly constructed hall. In addition to the assembly section, the facility includes offices, a warehouse, and a dedicated area for specialized testing. Furthermore, a semi-automated workstation was set up for the preparation of cable harnesses, significantly improving production efficiency.

ABB s.r.o.

- Cooperation with ABB commenced at the beginning of 2025 and is carried out within our Serial Production Operations (PSV).
- Under this contract, we manufacture switchboards intended for data centres, with particular emphasis on meeting very high-quality standards. The manufacturing process also includes in-house testing of each switchboard at our production facility.
- During 2025, we manufactured and delivered a total of 124 switchboards comprising 420 panels for ABB.

In addition to the references listed for individual customers or projects, LV production and supply for other major projects:

- Bikoš tunnel – delivery of technological switchboards
- Višňové Tunnel – supply of technological switchboards
- Supply of switchboards for the 4th double row of NAO storage in National Radioactive Waste Repository (RÚ RAO), Mochovce
- Slovnaft – tank truck filling station refurbishment Depot Network Optimization – supply of CCTV and ENTRY switchboards
- Production Facility for water storage systems WINKELMANN STAGE III – supply of switchboards
- TESLA Gigafactory Berlin
- **V At CERN**, the cooling systems are being modernised, including a transition from chemical refrigerants to more environmentally friendly CO₂, which will reduce emissions by up to 40,000 tonnes per year. PPA ENERGO switchboards play a key role, serving as the control centre for the entire system. The equipment processes complex data required for precise control of the accelerator detector cooling systems. The integration of intelligent valve control thus contributes to the safe and sustainable operation of this major scientific facility.
- ITER – delivery of LV switchgear for the cooling system technology (TCWS) of the Tokamak fusion reactor, including successfully assessed samples of magnetic, seismic, EMC qualification
- NEXEN TIRE – supply of technological switchboards for power supply, automation and control of technologies in the Nexen industrial plant

Engineering Activities in the Area of I&C and Electro

Provision of design, programming, calculation, and consulting services for various clients in the field of Electrical Engineering and control and management in nuclear energy and industry, both in Slovakia and abroad:
Slovenské elektrárne, a. s.,
Slovnaft, a. s.,
Kanadevia Inova AG,
Samsung E & A,
Nafta, a. s.,
Škoda JS, a. s.,
VUJE, a. s.,
Vertiv Slovakia, a. s.,
PANTOGRAPH, s.r.o.,
SLOVENSKÝ VODOHOSPODÁRSKY PODNIK, š. p.,
Mondi SCP, a. s.
U. S. Steel Košice, s.r.o.
W-SCOPE HUNGARY PLANT Kft. ZAT, a. s.
TESLA MANUFACTURING BRANDENBURG SE
Jadrová a vyradovacia spoločnosť, a. s.
ITER ORGANIZATION

Balance Sheet, Profit and Loss Account

Annual Report
2025

Consolidated Balance Sheet ending with the 31st December 2025 in thousands of EURO

	2025	2024
Non-current assets	25.576	25.198
Intangible assets	457	423
Tangible assets	23.179	22.046
Other movable property	174	1.428
Goodwill	0	0
Non-current financial assets	0	0
Other financial assets	145	142
Long-term receivables	156	16
Deferred tax assets	1.465	1.143
Short-term assets	120.367	123.131
Inventory	18.413	10.380
Receivables	57.515	74.409
Other receivables	8.251	11.479
Short-term accruals	3.179	952
Cash and bank accounts balances	33.009	25.911
Total assets	145.943	148.329
Equity attributed to shareholders	77.755	71.001
Share capital	1.052	1.052
Fund of exchange differences	25	13
Capital and Statutory funds	656	3.051
Funds of profit	4.471	4.236
Retained earnings	61.528	56.199
Profit for the period attributed to shareholders of the mother company	10.023	6.450
Equity attributed to non-controlling shares	-68	-76
Total equity	77.687	70.925
Long-term liabilities	8.196	8.405
Long-term trade and other payables	1.970	2.244
Deferred tax liabilities	192	126
Long-term provisions	6.034	6.035
Current liabilities	60.060	68.999
Short-term trade payables	42.731	56.176
Liabilities to the state	3.829	3.118
Other current liabilities	9.010	4.122
Short-term income and accrued expenses	45	585
Short-term provisions	1.361	1.467
Short-term borrowing	3.084	3.531
Total liabilities	68.256	77.404
Total equity and liabilities	145.943	148.329

Consolidated Profit and Loss Account ending with the 31st December 2025 in thousands of EURO

	2025	2024
Sales	225.938	215.721
Cost of goods sold	-27.192	-28.652
Shaft material and energy	-40.904	-53.185
External services	-105.394	-81.247
Occupational loan	-43.669	-41.669
Depreciation	-2.589	-2.247
Gross margin	6.190	8.721
Other operating income	10.417	2.365
Other operating expenses	-3.484	-2.301
Operating profit	13.123	8.785
Financial income	491	4.025
Financial expenses	-991	-4.456
Profit before tax	12.623	8.354
Income tax	-2.668	-1.980
Profit after tax	9.955	6.374
<i>Shares in associated companies affiliated operations</i>	0	0
Discontinued operations		
Profit from discontinued operations	0	0
Profit for the period	9.955	6.374
Assigned to:		
<i>holders of the parent company</i>	10.023	6.450
<i>non-controlling shares</i>	-68	-76
Other comprehensive profit	0	-
Complex result of management	9.955	6.374

Contacts



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2025

PPACONTROLL®
TECHNOLOGY UNDER CONTROL

Registered Office

PPA CONTROLL, a. s.

Vajnorská 137
830 00 Bratislava, Slovakia
tel.: + 421 2 321 03 101
info@ppacontroll.sk
www.ppacontroll.sk

Managing Director

Ing. Bystrík Berthoty
tel.: + 421 2 321 03 135
bystrik.berthoty@ppacontroll.sk

Deputy CEO for Business Affairs

Ing. Erik Vicena
tel.: + 421 2 321 03 136
erik.vicena@ppacontroll.sk

Finance Director

Ing. Marta Kramárová
tel.: + 421 2 321 03 160
marta.kramarova@ppacontroll.sk

Management Systems Director

Ing. Michaela Tavalýová
tel.: + 421 2 321 03 180
michaela.tavalysova@ppacontroll.sk

Human Resources Director

PhDr. Martina Fandelová
tel.: + 421 2 321 03 120
martina.fandelova@ppacontroll.sk

Director of IT Division

JUDr. Juraj Oslanec
tel.: + 421 2 321 03 167
juraj.oslanec@ppacontroll.sk

Subsidiaries and joint Ventures

PPA ENERGO, s.r.o.

Vajnorská 137, 830 00 Bratislava
tel.: + 421 2 321 03 537
energo@ppacontroll.sk

CEO Division

Vajnorská 140/A
830 00 Bratislava
Tel.: + 421 2 321 03 537
bystrik.berthoty@ppacontroll.sk

Economic Division

Tel.: + 421 2 321 03 532
emilia.lalikova@ppacontroll.sk

Technical Division

Tel.: + 421 2 321 03 538
lukas.dubrovay@ppacontroll.sk

Production Division

Tel.: + 421 2 321 03 638
peter.spano@ppacontroll.sk

Commercial Division

Tel.: + 421 2 321 03 500
erik.vicena@ppacontroll.sk

Procurement and

Administration Division

Tel.: + 421 2 321 03 545
roman.gonda@ppacontroll.sk

Project Management Division

Tel.: + 421 2 321 03 592
milos.glasa@ppacontroll.sk

PPA INŽINIERING, s.r.o.

Vajnorská 137
831 04 Bratislava
tel.: + 421 2 321 03 716
inzeniering@ppacontroll.sk

Branch office in BANSKÁ BYSTRICA

Sládkovičova 47
974 05 Banská Bystrica
tel.: + 421 2 321 03 741
anna.hanova@ppacontroll.sk

Branch office in ŽILINA

Radlinského 7, 010 01 Žilina
tel.: + 421 2 321 03 787
patricia.rohunova@ppacontroll.sk

Branch office in KOŠICE

Pri plynárni 2, 040 01 Košice
tel.: + 421 55 321 97 70
bibiana.sivakova@ppacontroll.sk

PPA POWER DS, s.r.o.

Vajnorská 137, 830 00 Bratislava
tel.: + 421 905 338 730
ppapowerds@ppacontroll.sk

Regional Department

Diaľničná cesta 6 A
903 01 Senec
tel.: + 421 905 338 730
ppapowerds@ppacontroll.sk

Regional Department

Sládkovičova 47
974 05 Banská Bystrica
tel.: + 421 48 321 28 01
ppapowerds@ppacontroll.sk

LiV ELEKTRA, s.r.o.

Priemyselná 10
821 09 Bratislava 2
tel.: + 421 2 5728 6311
+ 421 2 5728 6314
livelek@livelektra.sk

Branch office in NITRA

Urbánkova 10, 949 01 Nitra
tel.: + 421 37 65 55 809
+ 421 37 65 55 810
livnitra@livelektra.sk

Centre for switchboard

919 03 Horné Orešany 16 (191)
tel.: + 421 33 558 81 02
+ 421 905 204 184
oresany@livelektra.sk

PPA POWER, s.r.o.

Sládkovičova 47
974 05 Banská Bystrica
tel.: + 421 48 321 28 01
ppapower@ppacontroll.sk

PPA T&D, s.r.o.

Vajnorská 137
830 00 Bratislava-Nové Mesto
ppa_td@ppacontroll.sk

PPA TRADE, s.r.o.

Vajnorská 137, 830 00 Bratislava
tel.: + 421 2 321 03 128
trade@ppacontroll.sk

PPA SLAVUTIČ KYJEV, s.r.o.

Vajnorská 137, 830 00 Bratislava
tel.: + 421 2 321 03 128

PPA CONTROLL CZ, a.s.

Banskobystrická 568/157
621 00 Brno, Česká republika

PPA CONTROLL Magyarország Kft.

Pesti út 155, 2131 Göd,
Magyarország
tel.: + 36 20 274 9619,
+ 421 907 175 662

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.ppacontroll.sk, tel.: + 421 2 321 03 138, e-mail: marketing@ppacontroll.sk.

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