PP/ CONTROLL[®]



Managing Director's Statement

Annual Report 2023

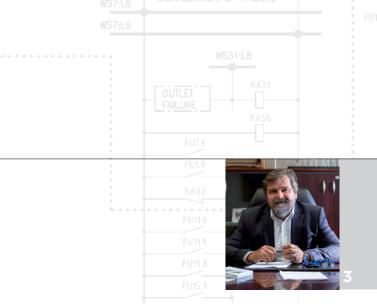
PPACONTROLL TECHNOLOGIES UNDER CONTROL

Assessment of the overall development of the company in 2023

The year 2023 was a challenging, however, successful and even a breakthrough year Year 2023 was one of the most successful ones in the entire history of the subsidiary for the group of PPA CONTROLL. At the beginning of the year, a selected group of PPA POWER DS s. r. o. In the field of energy and media distribution it is an outstanding. managers completed their work, looking at the ideal courses for our future develop- company on the Slovak market and is a regular partner of major European companies. ment. The vision of the company got updated, the most important company values As an experienced long-term operator of local distribution networks and a manager of were stipulated, many measures were taken and hundreds of decisions were made. industrial and logistic parks, it provides its customers with superior services. In 2023, One of the objectives of the adopted strategy in section Segment and Service Develthe company continued to develop its activities and acquired to its customer portfolio opment was to strengthen our own competences. The opportunity presented itself the new construction of Eurovea 2 as well as MDS Vranov and MDS Nitra B. in autumn 2023 and we successfully accomplished by the purchase of ENERGO It is also important that after initial fluctuations in the area of commodity sales - elec-CONTROL s. r. o., In addition to our competences, it has also provided us with the tricity and gas, the price of commodities has stabilised. The negative impact of the expansion of our design, programming and production capacities for the project Ukrainian military conflict in on the economy became fully apparent in 2023. There implementation, primarily in cooperation with our subsidiary PPA INŽINIERING. were also positive aspects, as we saw the emergence of new commercial energy prod-It is rather impossible to list all the partial achievements and projects completed in ucts that were previously inaccessible to some customers or not accessible at all. 2023, although there are at least two milestones for which we consider this year In 2023, PPA POWER DS commissioned its own rooftop photovoltaic power plant in to have been a breakthrough year in the group of PPA CONTROLL. the distribution network in Lozorno and, despite strong competition, it won a new The first is the successful completion of Unit 3 in the Mochovce Nuclear Power Plant. contract for the comprehensive management of the EQT Exeter Park logistic park in The construction of Units 3 and 4 started many years ago and the employees of PPA Senec.

of Slovak energy and industry.

ENERGO, s. r. o. were present there from the beginning. 2023 was the year of victori-This year. PPA INŽINIERING s. r. o. has maintained its significant position on the transous and longed-for completion of the most challenging construction in the history port technology market by implementing the projects R4 Prešov - northern bypass and the Bikoš tunnel. A significant share of revenues was also accounted for by the The second turning point is the fact that in 2023, for the first time in modern history, projects of Bioenergie Wismar in Germany and the projects for VOLKSWAGEN SLOVAwe surpassed the EUR 200 million annual consolidated turnover threshold. KIA, a. s. In the course of 2023, the company acquired an important contract "Techno-As in the previous years, a significant share of the PPA ENERGO, s. r. o. sales was ac- logické vybavenie tunela Višňové", the subject of which was the design and implemencounted for by contracts and technological projects implemented on foreign markets, in particular in the countries of Hungary, Germany, Great Britain, Czechia and information system of the D1 motorway Lietavská Lúčka – Višňové – Dubná Skala, in-France. In Hungary, mainly orders for Samsung Engineering Magyarország were re- cluding warranty service. alized. In Germany, cooperation with TESLA GIGAFACTORY BERLIN successfully con-The consequences of the war conflict in Ukraine, high price increases, uncertainty on tinued. In France, projects for BUSBAR4F Societa consortile a r.l. and ITER the investments market in energy sector and the decline in service activities had an ORGANIZATION France as the end customer continued as well. In the Czech Repub- adverse impact on the orders and operating results of the subsidiary LiV ELEKTRA, a. s. lic, the NEXEN TIRE project for SAMSUNG was completed in 2023, In 2023, our com- as early as 2022. The following year – 2023 was significantly more successful for the pany started new activities in the UK for HITACHI ZOSEN INOVA AG and for company and it implemented several projects mainly in the field of construction, re-FRAMATOME. In Slovakia, the activities of PPA ENERGO s. r. o. concentrated mainly construction, modernization, maintenance and servicing of electrical equipment, on the contracts in energy sector, with the successful completion of Unit 3 in the substations and transformers without voltage limitations. Although SEPS and ZSDIS Mochovce Nuclear Power Plant. Moreover, work on Unit 4 will continue in the next were among the most important customers in 2023 again, the company also continperiod. The company carried out service activities at the Jaslovské Bohunice Nucle- ued in expanding its customer portfolio among private companies. ar Power Plant and participated in the shutdown works. We also continued in work The smaller subsidiaries PPA TRADE, spol. s r.o., FTVE 3, s. r. o. and PPA CONTROLL for Jadrová a vyradovacia spoločnosť. Major projects were also conducted with Magyarország operating in Hungary also contributed to the overall success of the customers Duslo, Slovnaft, Nafta, Rona, and for Schindler the production of switchboards was conducted. Ing. Bystrik Berthoty



Managing Director and Chairman of Executive Board



About the company PPA CONTROLL, a. s.

Annual Report 2023

PPACONTROLL TECHNOLOGIES UNDER CONTROL

General Information about the Company

Legal identity Business name: Registered office: Legal form: Company ID: VAT Reg. No.: Date of incorporation: September 2, 1991 Stock capital:

PPA CONTROLL, a. s. Vajnorská 137, 830 00 Bratislava joint-stock company 17 055 164 SK2020459078 € 1,052,008

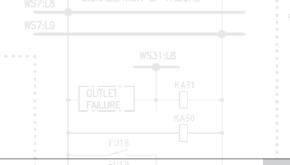
The Company is incorporated in the Bratislava 3 District Court Commercial Register Section Sa, Insert No. 159/B

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 As a supply and engineering company in the field of electrical systems, measurement, control and process automation, we have of our customers and strive to bring positive changes to our operations. a successful history of more than 70 years. We want to continue Passion for excellence - we want to amaze with our solutions, their to be a source of inspiration for successful technologies and co-creefficiency, originality and uniqueness. We constantly strive for excepate the world of cleaner and more comfortable ones. By providing tional quality and flexibility, set ambitious goals and enjoy finding professional services, we want to help partners streamline their acsolutions to even the most difficult and complex tasks. tivities and operations, participate in their innovations, reduce po-Partnership - we strive for partnerships with our customers and suptential risks in their operations, streamline energy costs and reduce pliers as well as for strong and fair relationships between our employenvironmental burdens. We are a team of experts giving life to techees, which we base on openness, information and trust. We are loyal nologies of the future. In order to fulfil this mission, we create a proand do stand by each other in challenging times, we honour and supductive working environment for our employees with a focus on

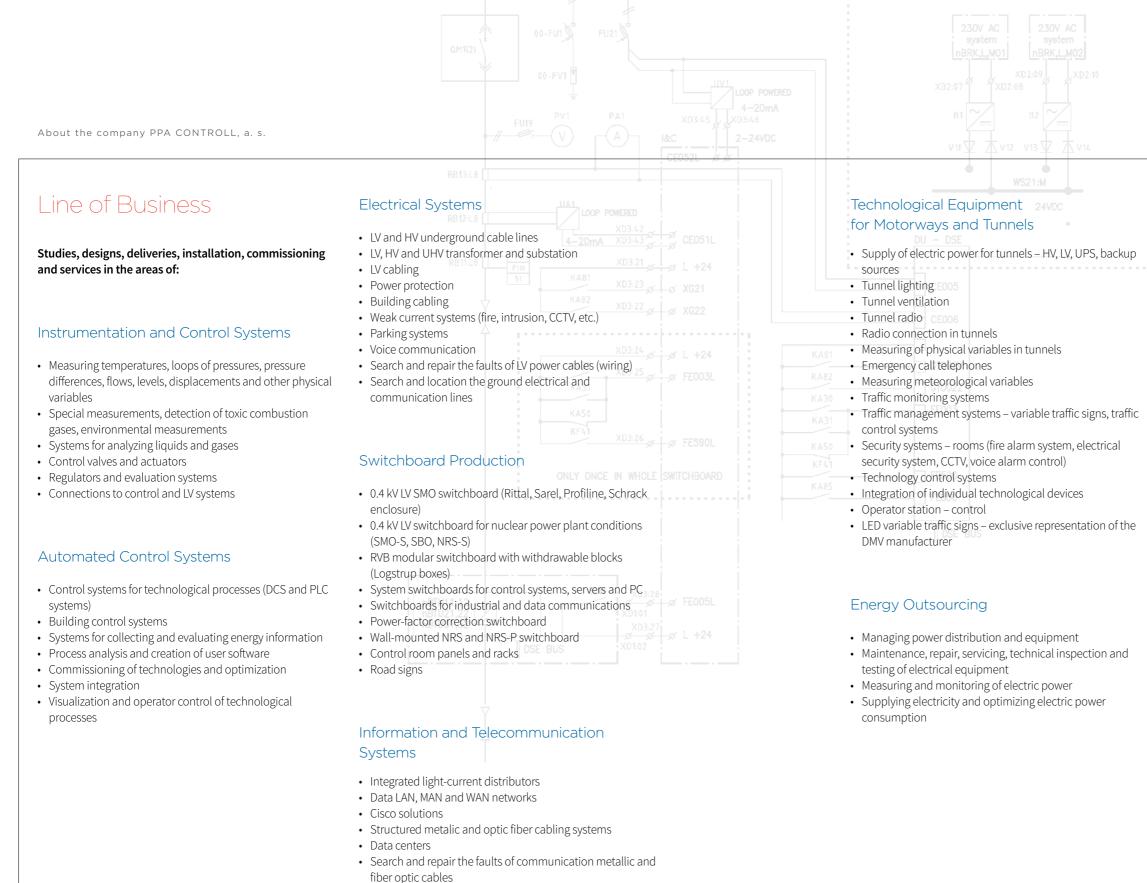
professional and personal development. port team spirit, mutual respect and share the same values.



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 ČSFR 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 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



PP/ACONTROLL	
TECHNOLOGIES UNDER CONTROL	
INCTRUMENTATION AND AUTOMATION	

Comprehensive Industrial Site Management

Management and administration reports

- Preparing and reviewing budgets, records of costs and management processes, coordination of suppliers
 Technical management
- Servicing, maintenance and repairs of technical facilities
- Expert inspections and technical testing of classified technical equipment:
- electrical
- gas
- pressure

Non-technical site management

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

Construction and Development of Infrastructure in D1 Park Senec

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

Operation and Maintenance

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

Social Responsibility

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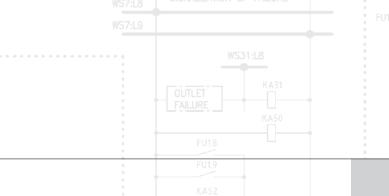
PPACONTROLL TECHNOLOGIES UNDER CONTROL INSTRUMENTATION AND AUTOMATION Corporate social responsibility has continuously been an integral part of strategic objectives and business activities of the group of companies in PPA CONTROLL. We all are aware that socially responsible behaviour increases labour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

DSE BUS

The values, such as strict anti-corruption behaviour, respect business processes. Implemented and certified management sysfor transparency in all financial perations, establishing good tems are regularly valued and continually improved. relations with customers, shareholders and business part-We place a high priority on conducting activities in compliance ners, creating employee-friendly working conditions as well with the requirements and expectations of our customers, governas compliance with environmental standards are applied by ment authorities, control and supervisory bodies and other parties the companies in PPA CONTROLL group in their daily business involved. This has also been confirmed by the audits completed activities. These values, expressed in Ethical Code as well, are by certification institutions, as well as by the audits conducted by shared by the management, senior managers and all employboth regular and potential customers. Meeting the requirements of ees of the PPA CONTROLL group of companies, which in pracall parties involved and achieving prominent level of the customer tice creates a constructive interaction effect and a solid basis satisfaction remain our priority. for the all-round development of the PPA CONTROLL group of The refore, the long-term application of management systems in the parent company PPA CONTROLL, a. s. and its subsidiaries is

companies. a good prerequisite for the successful and comprehensive fulfil-In the same way, the basis for a sustainable and successful ment of procedure and legislative requirements for quality, safety, business activity of the PPA CONTROLL group of companies working environment as well as health and environmental protecis the emphasis on the identification and monitoring of the tion in the individual activities of the company. Communication of needs and expectations of business partners as well as other their importance takes place at all organisational levels. Through parties involved, on the comprehensive assessment of external an integrated approach of our managers and employees, we and internal impacts, as well as on the risk analysis of projects, strengthen the PPA CONTROLL group's overall contribution to sothe evaluation of which is reflected in the subsequent implecially responsible behaviour. It is our daily task to improve the level mentation phase. of quality and corporate culture, safety culture, health, occupational and environmental protection as well as information securi-

Especially by finding, creating and delivering socially responty. From the identification and analysis of risks with regard to insible solutions for customers and other parties involved, toternal and external influences, through the planning of long-term and short-term objectives, the monitoring of indicators and their gether with building long-term fair relationships with business trends, to the definition and implementation of appropriate measpartners and actively involving employees we strive to achieve a common goal and shared prosperity. We see our compaures, we contribute to the development of companies in the group of PPA CONTROLL and their reputation. nies' participation in so-called "green" projects and projects improving the level of safety in Slovakia and abroad as an im-In 2023 we successfully integrated company LiV ELEKTRA into the portant contribution of the PPA CONTROLL group to socially responsible behaviour.



e- Management systems according to ISO 9001, ISO 27001, ISO 14001, ISO 45001 and at ty

We responsibly apply priority principles of quality assurance, information security, nuclear safety, occupational safety, health and environmental protection when performing our work activities in all business processes. Implemented and certified management systems are regularly valued and continually improved.

n- In 2023 we successfully integrated company LiV ELEKTRA into the management systems of the group of companies PPA Controll, which is acknowledged by the issuance of the joint ISO certificate in integrated management system (IMS). Through these activities, we strive to enhance our internal processes and meet the needs and expectations of our customers and other parties involved, but most importantly, we want to remain your trusted and reliable partner.

Human Recources

Annual Report 2023

PP/ACONTROLL TECHNOLOGIES UNDER CONTROL

Staff structure

The company's personnel policy in 2023 was focused on motivating and supporting employee engagement, supporting the acquisition of a qualified workforce and working with talent. PPA CONTROLL, a. s. is actively involved in cooperation with technical schools. In order to support students for future careers, we participated in several projects and events for students in 2023.

As of 31st December 2023, the companies in the group of PPA CONTROLL, a. s. employed 785 employees. The Employee Stability Index fell to 66.2 % in 2023 (the percentage of employees who have been working for us for more than 5 years out of the total number of employees). Of the total number of employees, there are 82 % of men and 18 % are women. The average age in our company is 46 years.

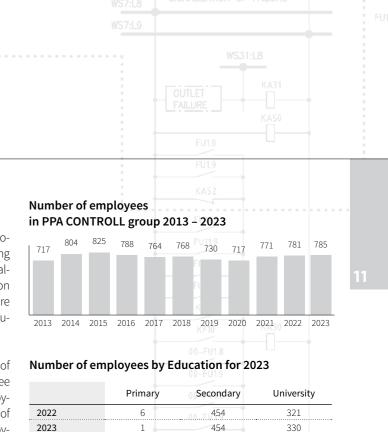
The technical education of our employees and applicants con tinues to be crucial for us. The most frequently filled position in 2023 were a designer, a test technician, an electrical equip ment inspection technician, and a measurement and contr mechanic.

Employee development

Employee education and development continues to be one of the company's top priorities. In 2023, the company prioritized talent development, managerial development, and language education to support foreign markets.

PPA CONTROLL, a. s. invested in education the amound of € 304,687, while the average annual cost per employee was€388.

PPA CONTROLL, a. s. shows its appreciation and support for the loyalty of its employees in the form of a wide range of benefits focused on health, regeneration, family and sport.



Number of employees by Age for 2023

0

in % – 2023

	18-29 y.	30-39 y.	40-49 y.	50-59 y. C)ver 59 y.
2022	73	177	208	210	113
2023	71	185	_{KA8} 216	204 HL2	109
in % – 2023	9	24	28	26	14

58

42

Number of employees by Gender for 2023

	Women	Men
2022	135	646
2023	138	647
in % – 2023	18	82

Employee structure by Professions for 2023

	2022	2023
Management	31	37
Sales and Procurement	82	75
Project management	70	85
Designers, programmers	122	121
Administration	99	118
Technicians	126	167
Assembly workers	236	172
Others	15	10
Total	781	785



Company Statutory Bodies and Organizational Structure

Annual Report 2023

PP/ACONTROLL TECHNOLOGIES UNDER CONTROL

Executive Board

Ing. Bystrík Berthoty, Chairman

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

Ing. Ladislav Ondriš, Vice Chairman

Born November 22, 1956 and a graduate of the University Ing. Karol Pavlů, Vice Chairman^{00-FV10} of Economics in Bratislava. Between 1999 and 2014 he Born December 19, 1941. Graduate of the University of Ecowas Chairman of the Supervisory Board. He has been Vice nomics in Bratislava. In the past, he held offices in several Chairman of the Executive Board since 2015. 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), Born April 18, 1969 and a graduate of the Slovak University and chairman of the Supervisory Board (since 2014). He has of Technology in Bratislava. He joined the Company in 1999. been holding the office of Vice Chairman of the Supervisory He was appointed to his current position of Director at Board since 2018.

Ing. Zoltán Lovász, Member

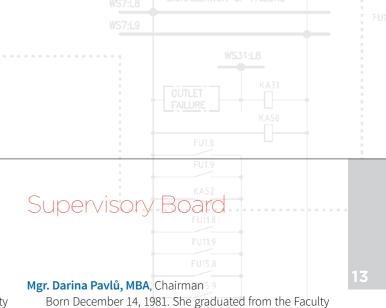
PPA ENERGO s. r. o. in 2009. He became a member of the Executive Board in 2012. PhDr. Darina Pavlů, Member

Ing. Marián Kolenčík, Member

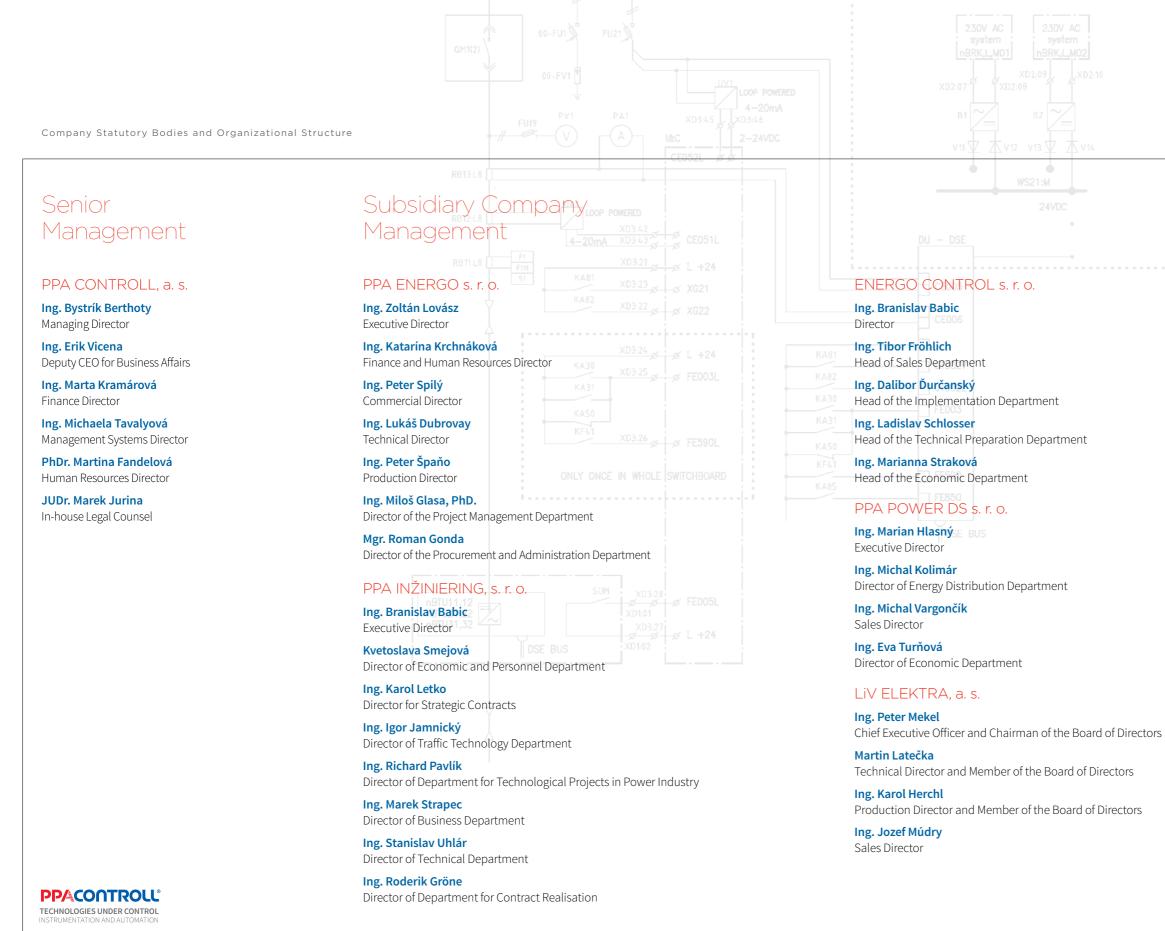
Born June 4, 1946 and a graduate of the Faculty of Philosophy at Comenius University in Bratislava. She was a mem-Born September 19, 1967 and a graduate of the Slovak Uniber of the Supervisory Board since 2005, the vice-chairman versity of Technology in Bratislava. He joined the Company in of the Supervisory Board since 2012, and since 2018, she 1990. He was Director of subsidiary PPA INŽINIERING, s. r. o. has been a member of the Supervisory Board. 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.



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.



PPA T&D, s. r. o.

Mgr. Darina Pavlů Legal Representative of the Company

Ing. Bystrík Berthoty Legal Representative of the Company

Ing. Erik Vicena Legal Representative of the Company

PPA POWER s. r. o.

Ing. Erik Vicena Legal Representative of the Company

PPA TRADE, spol. 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.

5 Ing. Zoltán Lovász Legal Representative of the Company



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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.

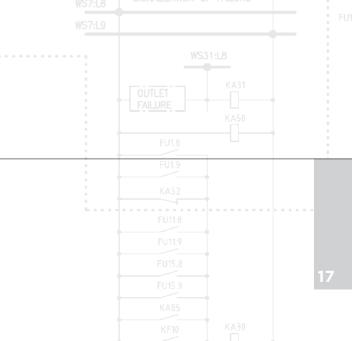
Building Objects

- 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

PP/CONTROLU TECHNOLOGIES UNDER CONTROL INSTRUMENTATION AND AUTOMATION



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 preprepared main busbar extension modules for connection of new field during operation of 110 kV substation, replacement of existing VHV cables of transformerT101 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 Ovsište and Podunajské Biskupice. Modifications in the existing switchgears ARE, ASE Protection relay switchgears



Encapsulated station of the Čulenova power station

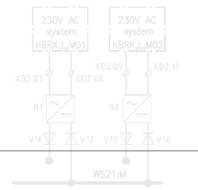
Transition of HV cable line to HV air line in the village of Lakšárska Nová Ves



Construction of 245 kV ES Opočínek

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 AOF01. • 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. 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

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.

PPACONTROLL TECHNOLOGIES UNDER CONTROL

ČEPS, a. s.

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

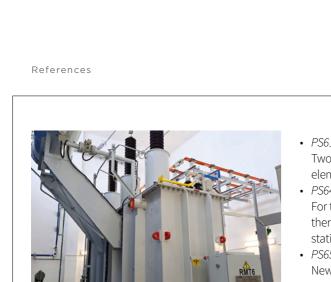
In association with Bohemia Müller, we conducted the reconstruction of the 220 kV Opočínek substation for ČEPS, a. s. The scope of work consisted of dismantling the existing fields and subsequent assembly – 2 feeder fields (V202, V203), 2 transformer feeder fields (T201, T202), 1 busbar switch field, 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

c 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.



New transformer Duslo Šaľa





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

Modernization of the distribution network in the municipality of Prietrž

- 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.

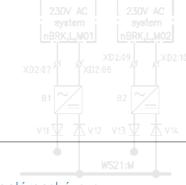
Duslo Šaľa, a. s.

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



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 The investment project called "BA_A1_nový VNK_ES" TG3 turbogenerator in Žilinská teplárenská, a. s. The work Stupava_ES Malacky, VNK" was implemented within the so-called Project of Common Interest ACON (Again also included the actual repairs, supplies of materials and spare parts necessary to conduct the reconstruction of the Connected Networks) for the company Západoslovenská electrical part of the TG3 source on the basis of revision distribučná, a. s. This is a European project funded by and diagnostic findings concerning the turbogenerator and the CEF instrument focusing on modernizing distribution its parts. The assignment also included the development systems and applying new communication and intelligent and submission of project documentation based on which features to the distribution network. The aim of the project dismantling and assembly work, communication interfaces, is to support the integration of the electricity market in all necessary modifications, assembly and repairs, testing Czechia and Slovakia as well as to streamline the operation and subsequent commissioning were conducted. of distribution systems in the given territory with regard to reducing losses, increasing the quality and security of Scope of work within the project: supply.

- Necessary dismantling
- Delivery and installation of T40 excitation transformer
- Reconstruction and assembly work related to the HV disconnector 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

· 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

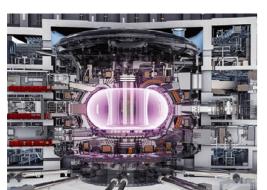


Electricity Flexibility Facility in Handlová

CERN European Organization for Nuclear Research, Geneva, Switzerland

Fusion experimental

reactor - ITER project





AE Hinckely Point C, Great Britain FU19 PV1 PA1 XD3

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 Cígel, 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 Cígel. 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.

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

t Britain

PPACONTROLL® TECHNOLOGIES UNDER CONTROL INSTRUMENTATION AND AUTOMATION

Nuclear Energy – Abroad

Project ITER (France) – International Fusion Experimental Reactor

23

- Electrical installation work installation of electrical equipment including water cooled encapsulated conductors, fast charging units and associated equipment, busbars and apparatus, installation of cabling and instrumentation
- Installation of cabling laying and termination of 204 pieces of 66 kV cables (more than 51 km) and 108 pieces of 22 kV cables (more than 41 km) for the pulsed power network (PPEN) – supplying the fusion reactor technologies (66 kV cables from the 66 kV substation and 22 kV cables providing the connection between 400 kV transformers and 22 kV high voltage switchgear
- Supply of LV switchboards for TOKAMAK Cooling Water System 1st Plasma to the extent:
- Design and manufacture of a test sample assessed in a laboratory in France to a magnetic induction of 21mT
- Manufacture and supply of switchboards
- Support at launching

CERN European Organization for Nuclear Research, Geneva, Switzerland

- Supply and production of control and power LV switchboards for cooling systems of CO2 detectors ATLAS and CMS 2PACL in the scope of:
- Technical design and production of 62 pieces of cabinets
- Pre-series production of 4 pieces of cabinets, including qualification and certification

Hinckely Point C Nuclear Power Plant -Great Britain

Electrical installation work on a part of the I&C during the construction of new units

- Creating documentation workflows, etc.
- Work on HCP
- Installation of sensors
- Laying the cabling
- junction box installation
- Connection to appliances and adapters, coupling





NPP Mochovce

Measurement and

control technology

of NPP Mochovce

Block supervision

of NPP Jaslovské

room of unit V2

Bohunice,



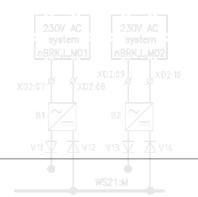


Nuclear energy in Slovakia

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

Nuclear Power Plant V-2 - Units 3 and 4

- Replacement of accumulator batteries used for power supply of NPP V-2 safety systems (system devices that ensure the liquidation of primary circuit accidents and after-cooling of the reactor) – preparation of project documentation, installation, testing and commissioning
- Change of the electrical supply of the Simatic control system
 ensuring the measurement of parameters in the technical water
 system
 FE590
- Replacement of electrical protectors with new digital protectors on 13 pins of 6 kV safety system switchgear ONCE IN WHOLE SWITCHBOARD
- Transition cabinets for TJ and super emergency supply pumps (SESP) – preparation of project documentation, execution of works
- Supply of 400 kV 1 GB and 2 GB substation switchgear preparation of project documentation, supply, installation, recovery, tests
- Replacement of 0.4 kV circuit breakers of ARV type with Siemens and Schneider circuit breakers – development of the implementation project and DSV, delivery, implementation
- 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
- Replacement of cables for 6 kV appliances, excavation and laying works Pečeňady – design, supply, installation, tests
- Removal of backlighting for signalling the status of 400 kV EBO V2 switches and disconnectors supply, installation, tests



- Replacement of elements and components H3BO3 for concentration measurement – design, supply, installation, tests
- Modification in Exchange station of thermal feeder ESTF in Jaslovské Bohunice – stage 2 and camera system for EBO warehouse – design, supply, assembly, implementation of camera system for surveillance in the premises of the exchange station and warehouse
 Replacement of pump – supply assembly as the supply as th
- Implementing measures of Open Phase Condition replacement of protections for non-system 6 kV switchboards B18150/1 – project development, delivery, installation and tests
- ESTF heating from Turbo Generator TG steam taps power supply for new electrical appliances and completion of measuring, regulatory, control and signalling circuits on TG steam branches for heating of the substation for Trnava, Hlohovec and Jaslovské Bohunice
- K ◆5 Replacement of elements and components for H3BO3
- KFL concentration measurement complete replacement of measuring circuits for measuring concentration of boric acid – design, supply, installation, tests
- Modification of TQ ultrasonic sensors
- Modification of pressure pump displacement measurements innovation of obsolete pressure sensors.
- Modernization of measuring circuits included in task EBO10432

 Modification of measurements on the discharge of pressure pumps in order to use instruments currently produced, available, supported by the manufacturer, with a higher range and SW adjustment of the measurement range in the technological computer system.

Mochovce Nuclear Power Plant

Units 1 and 2

- Repair of cabling for JEC temperature measurements repair of cabling, supply of new temperature sensors and materials
- Reassessing the classification of ICS equipment engineering, supply and implementation, testing
- Modification of pump bearing cooling, removal of embedded cooling circuits and modification of electrical supply to boron VT pumps engineering for ICS and electrical section, execution, testing

Steam generator and impulse tube lines of

NPP Mochovce

PPACONTROLU TECHNOLOGIES UNDER CONTROL INSTRUMENTATION AND AUTOMATION

- Modification of protection U11 for Super Energy Power Pump SEPP – supply of design and implementation documentation and quality documentation for selected equipment, implementation of modifications in the BELT
- .
- Replacement of power relays for Main circulation pump – supply and replacement of protection for MCP, supply of design and implementation documentation, implementation of replacement of elements
- Supply of two FH2-3A/F fuse disconnectors in DC switchgear due to seismic failure of existing disconnectors
- Resetting of U09 protection for all main supply pumps for Unit 1 and Unit 2 in SE-EMO – processing of project documentation, implementation documentation, quality documentation for selected equipment. Modifications in the BELT control system and testing of the rebuilt main supply pump protections together with commissioning.
- Replacement of automatic starting of DC drives of MAV, MKW oil pumps – delivery of new switchboards and replacement of old switchboards in the number of 12 pcs for both EMO12 blocks. Design, implementation documentation, complete implementation with testing and commissioning.

Units 3 and 4 - Completion:

- Design and engineering activities for the part of ELECTRO and I&C for the conventional and nuclear island, including verification of documentation on the construction site.
- 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
- Reactor protection system (RRCS) supply and installation of cabling









- EXCORE system supply and installation of switchboards
 Neutron flux monitoring system installation of switchboards
- and technological parameter sensors
- Implementation of the JOB12 project engineering, supply, installation, and commissioning of selected ICS parts and the electrical part for the nuclear island – sensors reading technological parameters, sampling system for sensors reading technological parameters, sealed tube bushings, sealed cable ducts, cabling, analysers of technical and technological parameters, main and secondary cable routes, cabling
- Implementation of the E06ER project electrical installation works and installation of ICS for the completion of the emergency diesel generator (Unit 4 of the MO34 NPP), installation of main and secondary cable routes, laying and connection of cabling (HV, LV), installation of sensors, switchboards (6 kV, 0.4 kV, 24 V, protection elements, measurement and synchronization), transformers, impulse lines, earthing, support for commissioning
- Building wiring for conventional island on Unit 4 installation of CHBOARD light and socket wiring, lightning conductor, circuit recovery
- Implementation of engineering activities of the electrical profession – dispositional placement of appliances and their earthing, design of main and secondary cable routes, fireproofing of cable routes

Unit 3 – support for 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

Jadrová a vyraďovacia 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 workProject for the completion of spent nuclear fuel (SNF)
- 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 among
- 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

DSE BUS

Heating plant in Martin

Tanks of emergency

Impulse tube routes

of NPP Mochovce

systems of NPP

Mochovce

Cogeneration units in the Martin heating plant

> **PPACONTROLL® TECHNOLOGIES UNDER CONTROL** INSTRUMENTATION AND AUTOMATION

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



in the heating plant of Slovenské cukrovary Sered

> **PPACONTROLL** TECHNOLOGIES UNDER CONTROL

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

Hydroelectric power plants HPP

- Reconstruction of excitation controllers HPP Mikšová 3 x 31 MW – electrical installation works
 - Modernization of alarm controllers HPP Nové Mesto nad Váhom TG1, TG2, HPP Horná Streda TG1, TG2, HPP Dubnica nad Váhom TG1, TG2
 - New cable routes
 - Cable laying
- Switchgear replacement



Slough Multifuel Incinerator, UK

> **PP/ACONTROLL** TECHNOLOGIES UNDER CONTROL

Skelton Grange Incinerator, UK

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





PPACONTROLL TECHNOLOGIES UNDER CONTROL

TESLA GIGAFACTORY electric vehicle

- 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 piping

Wismar (Germany)

New biomass boiler project for combustion wood

pellets

- Installation in the transformer station of turbo generator and LV power output
- Supply and installation of main and secondary cable routes
- HV installation, delivery and installation of LV and I&C distribution systems
- Supply and installation of external low-current ducts
- Installation and wiring of MCC switchboards
- Supply and installation of high-current distribution systems for technologies
- · Assembly and wiring of RIO control cabinets in the field
- Testing of cable systems, instrumentation and optical networks

Audi Neckarsulm (Germany)

Delivery and implementation of electrical installation for Audi Neckarsulm painting systems:

- Delivery and installation of cable routes
- · Delivery and installation of main and secondary power cable lines
- · Delivery and installation of low-current cables and connection of technological equipment
- Delivery and installation of communication cable lines

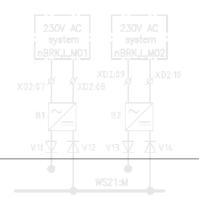


- general supply of the K8 boiler including construction and other professions

- comprehensive and functional tests, test operation, official tests, guarantee performance test
- actual design, accompanying technical documentation
- Heating of liquid ammonia by heat supplies of materials and services for the ATPCS section (Automated technological process control systems), electrical and lighting for the new technological part of the plant
- Utilization of rotary steam reducers for power generation ELE, I&C Supply of material and services for the ASRTP and electrical part of the new technical part of the plant, which will be used to reduce steam for the production process and also generate electricity
- New electro-fire alarm system (EFS)
- Upgrade SW Močovina
- Supplies of materials and services related to the upgrade of DCS YOKOGAWA at the operation of SBU A - Močovina - project documentation, documentation of actual delivery, automated technological process control system

(ATPCS), material supply, production of switchboards, FAT test, assembly on site, OPOS, tests, processing of SW DCS YOKOGAWA, cyber security of DCS YOKOGAWA

Reconstruction of the Irganox barrel filling line, supplies of materials and services related to the reconstruction of the barrel filling line at SBO – IRGANOX – barrel filling plant – project documentation of processing, documentation of actual delivery (electrical, I&C, ATPCS



and machine), material supplies - control system, devices, electrical; production of the barrel filling machine structure, switchboards for control, assembly at the plant, OPOS, tests, processing of SW control system SIEMENS, security of control system SIEMENS

Delivery of measuring instruments and frequency converter for the new boiler K8 - comprehensive supply of pressure, temperature, flow and frequency converters sensors for the new boiler K8 part I&C and electrical, current condition, sensors and frequency converters were delivered and installed on the new boiler K8



Construction of the Ethylene Storage Tank

- Supplementing the existing lightning conductor of pipe bridges KA5 and supplementing the earthing of buildings and construction
- objects supply and installation of cabling, supply and installation of cable routes, supply and installation of fibre optic cabling, tests and tests
- Construction of cable routes for HV and LV distribution, supply and installation of cabling, supply and installation of lights, supply and installation of outdoor lighting, connection of existing HV and LV switchboards, tests and recovery, inspection reports

Reconstruction of the data centre, UMT building

 Electrical installation work and supply of materials for heavy current power, OMS hanging rail system, supply and installation of switchboards, testing and recovery of components, inspection reports

Reconstruction of lighting at Bratislava and Klačany terminals (Car Tank Station)

- Comprehensive solution includes preparation of RPD for lighting replacement, including surveying and completion of missing layouts, dismantling works, supply and installation of equipment, testing, recovery and commissioning, updating of the protocol on the determination of the external environment as well as updating of the fire safety design of the building
- Renewal of lightning conductors and earthing of 3rd level • Installation of cable routes, supply and installation of cabling, probes - part 1. - Implementation of the project developed supply and installation of luminaires, supply and installation of LV by NAFTA - construction of a new network of lightning conductors and earthing for probes of storage centres of the switchboards, software update 3rd construction

Duslo Šaľa – boiler house with new K8 boiler

Slovnaft Bratislava plant



PPACONTROLL TECHNOLOGIES UNDER CONTROL

Reconstruction of the electric fire alarm system (EFS) at production sites AD5, AVD5 and AVD6

- · Achievement of the required fire safety within the territory of SLOVNAFT, a. s. in accordance with the fire safety project and
- applicable legislation in the form of turnkey construction
- Construction of cable routes, supply and installation of cabling, supply and installation of EFS components, supply and installation of LV switchboards, software update, recovery

Online corrosion monitoring system

• Installation of sensors for corrosion measurement on pipes, including the installation of cable routes and cabling

POZAGAS a.s

- Safety shutdown of MS Láb IV Design documentation DD processing and implementation of the work
- Installation of pressure transducers on ZS7 probe
- intermediate rings DD processing and execution

Nafta, a. s.

- HAZOP measures on CS Implementation of the project developed by NAFTA. Installation of new static pressure transducers and temperature converters for TEG degassers H01/1, H01/2, H01/3 and condensate separators H02/1, H02/2, H02/3 in CS PZZP Láb with remote data transmission to the **Operating Control System**
- Replacement of EFS cabling at the Centrálny Areál Gajary operation - Operative provision of replacement of the damaged cable on the existing EFS - Centrálny Areál Gajary
- Semi-annual inspection of EFS and GDS at ZSG2 Ensuring the performance of regular periodic inspections on the Electronic Fire Alarm System and Gas Detection System implemented by us



Nafta a. s.

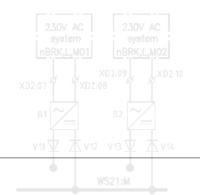






- **Reconstruction of I&C distribution systems on CS PZZP** Láb – Stage 5 – Installation of DT-RIO1-KOT of the project developed by NAFTA – replacement of the existing cabling in the Central Station of Underground Natural Gas Storage in the area of the boiler room hall with a system of remote inputs and outputs (Remote IO). Commissioning
- Addition of lightning conductors at ZS1, ZS2, ZS4 centres
 Implementation of the project developed by NAFTA construction
 of a new network of lightning conductors and grounding for storage
 centres ZS1, ZS2, ZS4
- GO and modernization of TK8 Exhaust tracts earthing implementation of the project developed by NAFTA – construction of a new network of lightning conductors and earthing to protect the TK7–8 building, including chimneys from the effects of atmospheric electricity – construction of interceptors, downpipes, earthing
- Reconstruction of GDS compress room system at Gas Collection
 Centre Gajary Baden Elaboration of the implementation project,
 provision deliveries, materials and project implementation. The
 project dealt with the replacement of the sensors of the Gas Detection
 System at the Gas Collection Centre Gajary-Baden centre in the
 compressor building and the delivery of the Gas Detection System
 control panel
- Measurement of pressure on the rings of probes of the 3rd construction, renewal of lightning conductors and earthing of probes

 Implementation of the project developed by ARTex construction of a new network of lightning conductors and earthing for probes of storage centres of the 3rd construction
- Replacement of LV switchboards RM318, RM328 and RSB
 Elaboration of the implementation project, deliveries, materials
 and project implementation production of new switchboards,
 implementation of switchboards and cables
- Renewal of detectors EFS ZS2 Elaboration of the implementation project, provision of supplies, materials and works. The subject of the project was the renewal of the Electronic Fire Alarm equipment at the ZS2 centre – replacement of flame and push-button detectors in the outdoor environment
- Restoration of lightning conductors and earthing of probes of the 3rd construction part 1 Implementation of the project developed by ARTex construction of a new network of lightning conductors and earthing for probes of storage centres of the 3rd construction
- Renewal of lightning conductors and earthing of probes of the 3rd construction – 2024 – Development of the implementation project,



provision of supplies, materials and works. – Construction of a new network of lightning conductors and earthing for probes of storage centres of the 3rd construction

- Pressure measurement on the rings of probes of the 3rd construction – 2023 – Implementation of the project prepared by PPA and ARTex, installation and commissioning of pressure sensors on the probes of the 3rd construction, addition of earthing and lightning conductors
- Restoration of recovery boiler 2, 3 contractor Implementation of the project of mechanical, construction, electrical and I&C parts according to the project of GasOil Technology. Commissioning
- Renewal of LV distribution of ZS1 probes on routes A, B and C –
 Preparation of project documentation, installation of new LV
 and data switchboards, installation of lightning conductors,
 replacement of LV cables, construction of a new optical network or
 Trsy A, B, C of the ZS1 centre, commissioning

U. S. Steel Košice

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

U. S. Steel Košice plant

> Mondi SCP Ružomberok

> > **PPACONTROLL® TECHNOLOGIES UNDER CONTROL** INSTRUMENTATION AND AUTOMATION

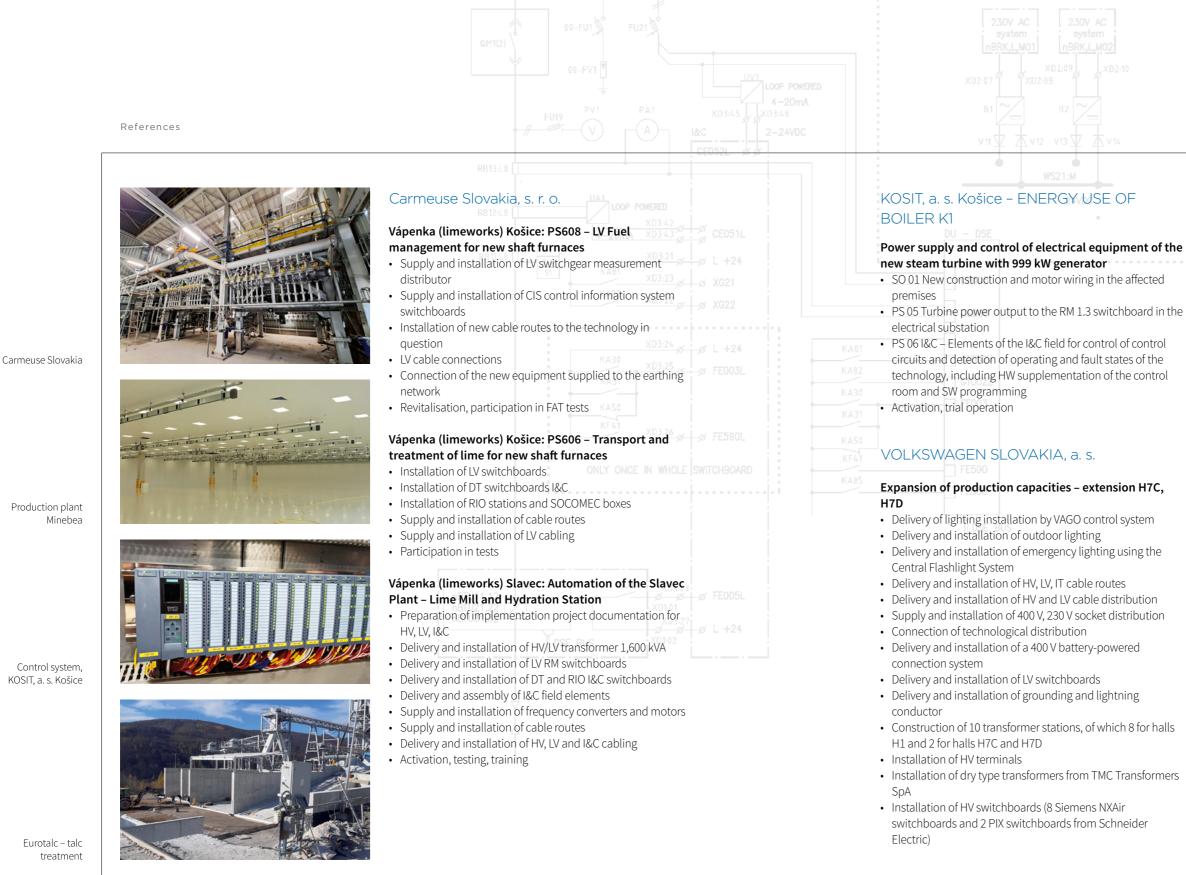
į	Reconstruction of field no 3 in the control room
	Complete replacement of cables and cable routes
	Dust removal from the charred coal system at VKB 1 and
	VKB3
S	Supply and installation of indoor and outdoor lighting and socket wiring
	 Supply and assembly of cable lines
I	Installation of switchboards 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
ſ	 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
S	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

Wiring of RS1 and RS2 actuators in the substation.

Mondi SCP, a. s., Ružomberok

Investment project ECO plus PM19

- New Speed Sizer PM18, Mondi SCP a. s. part: PRS
- Operating power distribution, atpcs pre project new hp pipeline from RB3 to TG 1, 2
- Electrical, ATPCS and construction electrical installation work
 for the NEW 500 M3 NAOH TANK
- New small PM17 rewinder



Control system KOSIT, a. s. Košice

> Eurotalc - talc treatment

> > **PPACONTROLL** TECHNOLOGIES UNDER CONTROL

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



PPACONTROLL TECHNOLOGIES UNDER CONTROL

Ikea Industry

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

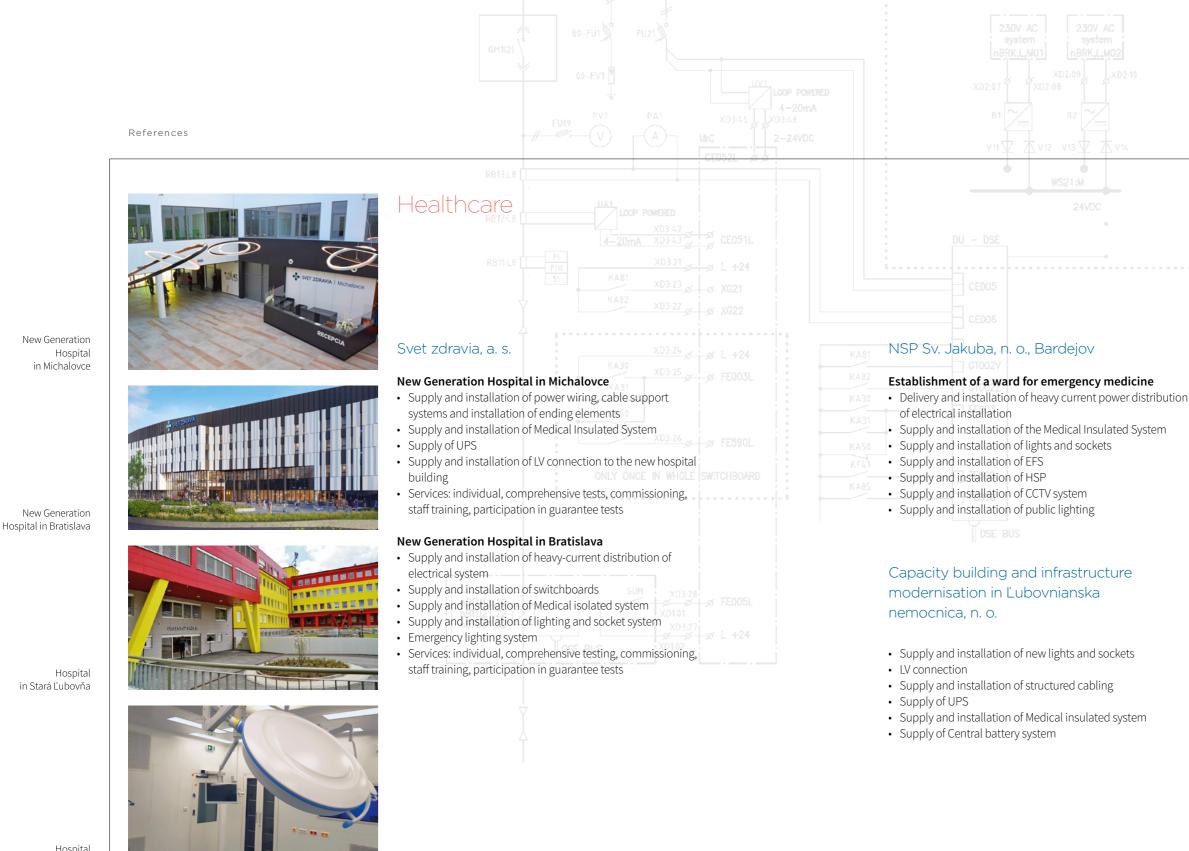
PS 301 External HV distribution lines

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



Hospital in Zvolen

> **PPACONTROLL** TECHNOLOGIES UNDER CONTROL

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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

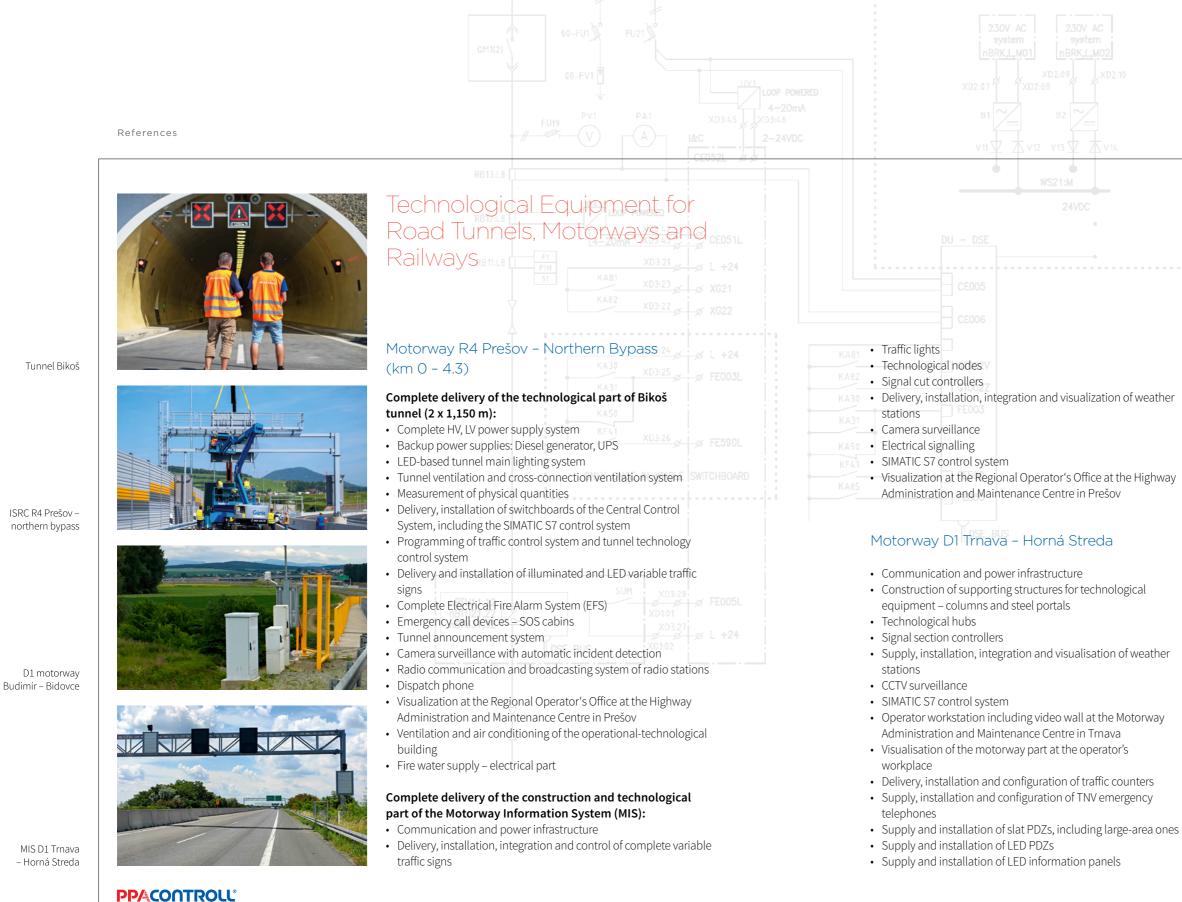
- Supply and installation of new lights and sockets
- LV connection
- Supply and installation of structured cabling
- Supply of UPS
- Supply and installation of Medical insulated system
- Supply of Central battery system



TECHNOLOGIES UNDER 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
- SEOYON E-HWA AUTOMOTIVE SLOVAKIA s. r. o. regular servicing of lighting in the production hall, work and emergency lighting, replacement of lights and checking of batteries
- EnIS J&A s. r. o. performance of professional inspections and professional tests on the production line for Coissant No. 2 and troubleshooting after professional inspections and specialised tests
- 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
- Schneider Electric Slovakia, spol. s r. o. HV service during a company-wide shutdown - Maintenance of HV switchboards with control of electrical protections - regular maintenance of HV switchboards, testing of digital protections
- EnIS J & A s. r. o. OPOS switchgear performance of periodic inspections
- Bekaert Hlohovec, a. s. Maintenance of transformers and substations R1, R3, R5 and LV switchboards for cords during the summer holiday in the company - regular annual maintenance of substations in the Bekaert Hlohovec plant - cleaning of transformers, oil samples, measurements
- Gestamp Nitra, s. r. o. Performance of periodic OPOS performance of periodic revisions of SKR switchboards and lighting in GESTAMP
- EnIS J & A s. r. o. Dismantling and installation of 2 new 22 kV bays in the switching station - replacement of 22 kV switchgear bays - feeders, old bays were replaced with new ones with digital protections
- ELMONT ZH, spol. s r. o. Inspection and maintenance of HV/ LV equipment in the Cloetta Levice plant – regular maintenance of HV/LV equipment - inspection of protective relays in the Cloetta - Levice plant



TECHNOLOGIES UNDER CONTROL

Motorway D1 Budimír - Bidovce

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

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



Lovinobaňa,

Rest area on highway R4 Košice – Milhosť

Tunnel Považský

Operator workplace of D1 motorway

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



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

- I Železničná spoločnosť Slovensko, a. s.
- l Plastic Omnium Auto Exteriors, s. r. o.
- SLOVALCO, a.s
- ProLogis Slovak Republic
- Faurecia Automotive Slovakia s. r. o.
- I 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

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



TECHNOLOGIES UNDER CONTROL

Zuckermandel - 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

Zuckermandel - 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



Final preparation for the delivery of switchboards for Schindler escalators

Assembly hall of switchboards for Schindler escalators

Switchboard

assembly hall

manufacturing plant



PPACONTROLL TECHNOLOGIES UNDER CONTROL INSTRIMENTATION AND ALICOMATION

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, ^{DL} which moved us to the next stage of switchgear production.

ONLY ONCE IN WHOLE SWITCH

SCHINDLER ESKALÁTORY, s. r. o.

A long-term project for the assembly-line production and supply
of switchboards with sensors and controls for escalators supplied
throughout Europe. In order to ensure production capacity, the project
established a new functional ALPP (Assembly-line Production Plant) in
a new hall, which, in addition to the assembly area, also houses offices,
a warehouse and an OTTO testing area.

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
- Multifunctional complex Nové Apollo
- TESLA Gigafactory Berlin
- **Volkswagen** switchboards for LV power supply technology of the Volkswagen car production plant
- České Budějovice Heating Plant LV switchboards for K12 boiler retrofit
- **CERN** delivery of control and power LV switchboards for cooling systems of CO2 detectors ATLAS and CMS 2PACL
- 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 – Operational Programme of Environmental Quality

Providing design, programming, 3D modelling and consultancy services for various customers in the area of energy and industry in Slovakia and abroad:

Slovenské elektrárne, a. s., Slovnaft, a. s., Hitachi Zosen Inova, Samsung Engineering, Nafta, a. s., VUCHT, a. s., Škoda JS, a. s., VUJE, a. s., VUJE, a. s., Vertiv Slovakia, a. s., PANTOGRAPH, s. r. o., SLOVENSKÝ VODOHOSPODÁRSKY PODNIK, š. p.,

Mondi SCP, a. s.

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

for PHEV Nyíregyháza

cy The projects of lighting and wiring replacement are implementry ed within the framework of the OPEQ (Slovak Agency for Innovation and Energy and the European Regional Development Fund) in order to reduce energy consumption and achieve the planned savings in operating costs. The aim of the projects is to improve the quality of lighting at workplaces, in particular by increasing the intensity of lighting and improving equal distribution of lighting. The new lighting and wiring reflect the extreme demands of the environment, such s dust, the impact of chemi-

cals, vibration and ambient temperature in order to reduce service interventions to a minimum and to allow cleaning of the equipment with pressurised air or water. Contract implementations cover the replacement of lights

and lighting equipment with a substantial proportion of innovative technologies (LED lights, intelligent systems of DALI lights control).

- "Increasing the efficiency of indoor and outdoor lighting of the production units at Saneca Pharmaceuticals, a. s."
- "Increasing the capacity of Elementary School at Medzilaborecká 11, Bratislava – Ružinov"
- "Reduction of energy consumption at RONA, a. s."
 stage 1 and stage 2

Balance Sheet, Profit and Loss Account

Annual Report 2023

PPACONTROLL TECHNOLOGIES UNDER CONTROL INSTRUMENTATION AND AUTOMATION

Consolidated Balance Sheet ending with the 31st December 2023 in thousands of EURO

E590		2023	2022
Non-current assets		22,032	17,800
Intangible assets	G.1	420	392
Tangible assets	G.2	18,870	12,944
Other movable property	G.3	1,491	3,749
Goodwill		0	0
Non-current financial assets		0	2
Other financial assets		95	86
Long-term receivables	G.4	1	0
Deferred tax assets	G.4	1,155	627
Short-term assets		97,953	89,082
Inventory	G.5	8,173	8,357
Receivables	G.6	52,827	47,356
Other receivables	G.6	4,283	2,946
Short-term accruals	G.6	966	597
Cash and bank accounts balances	G.7	31,704	29,826
Total assets		119,985	106,882
Equity attributed to shareholders		62,549	61,330
Share capital		1,052	1,052
Fund of exchange differences		8	96
Capital and Statutory funds		352	312
Funds of profit		4,264	4,251
Retained earnings		48,582	50,788
Profit for the period attributed to shareholders of the mother company		8,291	4,831
Equity attributed to non-controlling shares		1	2
Total equity	G.8	62,550	61,332
Long-term liabilities		14,314	10,307
Long-term trade and other payables	G.9	8,217	3,410
Deferred tax liabilities	G.9	84	140
Long-term provisions	G.11	6,013	6,757
Current liabilities		43,121	35,243
Short-term trade payables	G.10	32,423	28,355
Liabilities to the state	G.10	3,259	2,079
Other current liabilities	G.10	3,281	3,263
Short-term income and accrued expenses	G.10	140	40
Short-term provisions	G.11	2,022	1,486
Short-term borrowing	G.12	1,996	20
Total liabilities		57,435	45,550
Total equity and liabilities		119,985	106,882





Consolidated Profit and Loss Account ending with the 31st December 2023 in thousands of EURO ^{FUIL9}

			2023	2022
Sales	FU15.9	H.1	209,170	160,641
Cost of goods sold	KA85	H.2	-55,785	-26,613
Shaft material and energy	KE10	H.2	-37,360	-50,363
External services	NT ID	H.2	-69,370	-47,387
Occupational loan	00-FU1.8	H.3	-36,278	-31,959
Depreciation	00-EU1.9	H.4	-1,936	-1,627
Gross margin		-	8,441	2,692
Other operating income		H.5	2,900	5,795
Other operating expenses	00-FV1.9	H.6	-975	-918
Operating profit		T.	10,366	7,569
Financial income		H.7	811	950
Financial expenses		H.8	-829	-1,870
Profit before tax			10,348	6,649
Income tax	KABI	H.9	-2,056	-1,816
Profit after tax			8,292	4,833
Shares in associated companies affi	liated operations		HL 20	0
Profit from discontinued operation	S		0	0
Profit for the period			8,292	4,833
Assigned to:				
holders of the parent company			8,291	4,831
non-controlling shares			1	2
Other comprehensive profit			-	-
Complex result of management			8,292	4,833

Contacts

GT002V

Registered Office

PPA CONTROLL, a. s.

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

Headquarters

PPA CONTROLL, a. s.

Vajnorská 137 830 00 Bratislava ppa@ppa.sk

Managing Director

Ing. Bystrík Berthoty tel.: + 421 2 321 03 135 e-mail: berthoty@ppa.sk

ELEKTRO design centre

935 39 Mochovce

tel.: +421 918 969 524

e-mail: bily@ppa.sk

stredisko Mochovce, P. O. Box 9,

Subsidiaries and joint Ventures

PPA ENERGO s. r. o.

e-mail: cepko@ppa.sk

935 39 Mochovce

tel.: +421 2 321 03 400

e-mail: koncal@ppa.sk

EMO4

Centre

centre

Vajnorská 137, 830 00 Bratislava tel.: + 421 2 321 03 537 e-mail: energo@ppa.sk

Centres EMO1/EMO2/EMO3/

Industry and Infrastructure

919 30 Jaslovské Bohunice

tel.: +421 2 321 03 429

e-mail: buno@ppa.sk

PPA ENERGO, s. r. o. POST BOX 3,

Stredisko Mochovce, POST POX 9,

EBO Centre PPA ENERGO, s. r. o., POST BOX 3, 919 30 Jaslovské Bohunice tel.: +421 918 627 788

ELEKTRO design centre in Piešťany Teplická 87, 921 01 Piešťany tel.: +421 905 628 518 e-mail: cicerova@ppa.sk

Branch office in Košice Pri plynárni 2, 040 11 Košice tel.: +421 907 879 419 email: marek.balogh@ppa.sk

PPA INŽINIERING, s. r. o.

Vajnorská 137, 831 04 Bratislava tel: +421 2 321 03 716 e-mail: inziniering@ppa.sk

Branch office in BANSKÁ BYSTRICA Sládkovičova 47 974 05 Banská Bystrica tel.: + 421 2 321 03 741

Vajnorská 140/A, 830 00 Bratislava tel.: +421 2 321 03 601 e-mail: sodoma@ppa.sk

Centre DUSLO (Šaľa)

Switchgear production plant

Administrative building No. 1236, 927 03 Šaľa tel.: +421 2 321 03 940 e-mail: banasz@ppa.sk tet.: + 421 2 321 03 741 e-mail: hanova@ppa.sk **Branch office in ŽILINA** Radlinského 7, 010 01 Žilina tel.: + 421 2 321 03 787

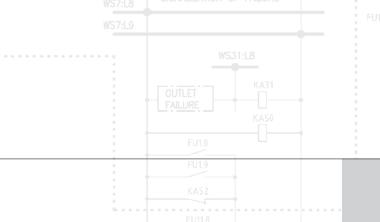
e-mail: obertova@ppa.sk **Branch office in KOŠICE** Pri plynárni 2, 040 01 Košice tel.: + 421 55 321 97 70 e-mail: sivakova@ppa.sk

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@ppa.sk.

Annual Report 2023

PPACONTROLL TECHNOLOGIES UNDER CONTROL INSTRUMENTATION AND AUTOMATION



Deputy CEO for Business Affairs Ing. Erik Vicena

tel.: + 421 2 321 03 136 e-mail: vicena@ppa.sk

Finance Director

Ing. Marta Kramárová tel.: +421 2 321 03 160 e-mail: kramarova@ppa.sk

PPA POWER DS s. r. o.

Vajnorská 137, 830 00 Bratislava tel.: + 421 905 338 730 e-mail: ppa@ppa.sk

Regional Department Dialničná cesta 6 A 903 01 Senec tel.: +421 905 338 730 e-mail: sekretariat@ppapower.sk

Regional Department Sládkovičova 47 974 05 Banská Bystrica tel.: +421 48 321 28 01 e-mail: sekretariat@ppapower.sk

LiV ELEKTRA, a. s.

Priemyselná 10 821 09 Bratislava 2 tel.: +421 2 5728 6311 +421 2 5728 6350 e-mail: livelek@livelektra.sk

Branch office in NITRA Urbánkova 10, 949 01 Nitra tel: +421 37 65 55 809 + 421 37 65 55 810 tel./fax: +421 37 65 24 153 e-mail: livnitra@livelektra.sk

Centre for switchboard and steel structure production 919 03 Horné Orešany 16 (191) tel.: +421 33 558 81 02 +421 905 204 184 e-mail: oresany@livelektra.sk

Management Systems Director

Ing. Michaela Tavalyová tel.: +421 2 321 03 180 e-mail: michaela.tavalyova@ppa.sk

Human Resources Director PhDr. Martina Fandelová

tel.: +421 2 321 03 120 e-mail: martina.fandelova@ ppa.sk

ENERGO CONTROL s. r. o.

Pri plynárni 2, 040 01 KOŠICE tel.: + 421 55 728 87 77 e-mail: ec@energocontrol.sk

PPA POWER s. r. o.

Sládkovičova 47 974 05 Banská Bystrica tel.: +421 48 321 28 01 e-mail: ppapower@ppa.sk

PPA T&D, s. r. o. Vajnorská 137 830 00 Bratislava-Nové Mesto

PPA TRADE, spol. s r.o. Vajnorská 137, 830 00 Bratislava tel.: + 421 2 321 03 128 e-mail: trade@ppa.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, 213 Göd Magyarország tel.: +36 20 274 9619 +421 907 175 662

Technology under control

























