ANNUAL REPORT 2020

PPA CONTROLL®

Managing Director's Statement

Annual Report
2020

PPA CONTROLL
TECHNOLÓGIE POD KONTROLOU
MERANIE, REGULÁCIA, AUTOMATIZÁCIA

Assessment of Overall Company Development in 2020

In 2020, business activities of PPA CONTROLL, a.s. group started as usual in previous years. However, soon, at the end of March we had to deal with a new situation and difficulties caused by the emerging pandemics. Despite the reality, the economic results achieved in 2020 have been the best in history of the company.

Due to a matter-of-fact cause during the second and third quarter, there was a real concern about meeting the revenue planned at 120 million EUR. Did we not only manage to meet the goal, moreover, we even exceeded is by more than 14%, which makes excess of the revenue planned by the whole 17 million EUR.

Having reached the excellent results again, PPA ENERGO s.r.o. relied on the traditional contracts in the field of power engineering, such as EMO 3,4 – JOB 12 and E05. Apart from those, the company completed several important contracts and technological projects in domestic – Mondi, as well as foreign market – Hyojin, SDIHU and Hitachi.

PPA INŽINIERING s.r.o. have maintained their significant position in the market of transport technologies by completing the contracts, such as ISD D1 Trnava – Horná Streda. They also continued in working on the technological contracts of Martinská teplárenská and Polyfunkčný objekt Tabáň Nitra. The most important contract was the change of thermal power source in Cukrovar Sereď.

Year 2020 has proven the correct set-up of business model in PPA Power DS based on the integration of services in the fields of delivery and distribution of commodities, administration of power and facility management for the companies operating in industrial and logistics parks. In the period of decline in energy deliveries the maintenance and servicing activities required by our clients during shutdown in their production were those which prevented the company from its significant slump of economic results.

The overall success of the group was also contributed by the company PPA TRADE, spol. s r.o., which works at trading with components and spare parts in power engineering and industry.

The results achieved are proof of persevering economic stability and strength of the PPA CONTROLL, a.s. group. Exceeding the ambitious targets of 2020 confirms the trend of continuous economic growth set by the group as their main goal in the Strategy of development for 2017 – 2021. We strongly believe that the targets set in 2021 will be achieved and the five-year period will be successfully completed.

The most substantial factor ensuring the success and results achieved by the group of PPA CONTROLL, a.s. in 2020 was the effort and prompt and suitable reply provided by our staff and their teams capable of changing some usual and traditional processes, adaptable to the new complicated situation and therefore, minimising negative impact of the Covid 19 pandemics on business and results of the company.

Ing. Bystrík Berthoty
Managing Director

About the company

PPA CONTROLL, a. s.

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General Information about the Company

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

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

Corporate Philosophy

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

The Company's basic Values

The company endeavours to ensure that all its employees develop their personal efforts aimed at achieving collective success and reaching it based on the following fundamental values:

- Customers – and their needs, expectations, and satisfaction are paramount
- Guarantee – of a professional and accommodating approach and provision of top quality services
- Development – of skills and professional growth of our employees
- Transparency, honesty and reliability
- Compliance – with legal, regulatory and other binding requirements of the parties interested
- Protection – of health, environment and data
- Readiness – and flexible response to changes

Company Milestones and History

1951	REGULA Praha founded
1958	ZPA Praha (Prague Industrial Automation Company) founded
1965	ZPA-DP Praha (Prague Industrial Automation and Supply Company Works) founded
1969	Branch office in Bratislava (ZPA-OZ) founded
1985	Elektromont, k.p. founded in Bratislava with the merger of ZPA-OZ and Elektromontážne závody Bratislava (Bratislava Electro Plants)
1990	Elektromont, s.p. in Prague and its suppliers throughout the 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 SCC^{P}: 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

Line of Business

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

Instrumentation and Control Systems

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

Automated Control Systems

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

Electrical Systems

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

Switchboard Production

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

Information and Telecommunication Systems

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

Technological Equipment for Motorways and Tunnels

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

Energy Outsourcing

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

Comprehensive Industrial Site Management

Management and administration reports

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

Technical management

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

Non-technical site management

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

Construction and Development of Infrastructure in D1 Park Senec

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

Operation and Maintenance

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

Corporate Social Responsibility

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Social responsibility is an integral part of the strategic objectives and business activities of the companies in PPA CONTROLL group. The basic principle is to carry out activities in accordance with the company's values and objectives, to accept responsibility for the company's activities and decisions and, at the same time, to consider their consequences and social impact.

We focus on the thorough identification and monitoring of the needs and expectations of all parties interested, while contemplating external and internal influences, paying attention to risk and opportunity management, planning and follow-up processes in order to achieve sustainable business activities and competitive advantages.

By applying a holistic approach to corporate management, through interconnection of individual areas of social responsibility and achieving their synergy, we want to ensure the sustainable development of the PPA CONTROLL group.

By searching, creating, and delivering solutions and value for customers and other parties interested, along with building long-term relationships with the partners and actively engaging our employees, we are striving to achieve our common goal and shared prosperity. A significant contribution of the PPA CONTROLL group to socially responsible behaviour is demonstrated through the participation of individual companies of the PPA CONTROLL group in "green" projects and in the projects increasing the level of safety in Slovakia and abroad.

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

The group of the PPA CONTROLL companies puts great emphasis on ensuring that their activities and processes are performed in a controlled manner to ensure that the work is carried out in accordance with the requirements and expectations of our customers, state administration, control and supervisory authorities and other parties interested, and this all thanks to the personal engagement and commitment of each employee.

The company is proud to flexibly respond to ever-increasing specific requirements and ensure their fulfilment not only in the field of management systems. The companies of the PPA CONTROLL group prove their flexibility and promptness in meeting specific customer requirements already at the stage of the qualification process.

The long-term application of individual management systems in the parent company - PPA CONTROLL, a.s. as well as its subsidiaries, served as a good prerequisite for launching the comprehensive integration of procedural and legislative requirements concerning quality, safety, working environment and protection of health and the environmental within the individual activities of the company.

Based on the integrated approach applied by the managers and employees, we expect enhancement of the PPA CONTROLL group's overall contribution to socially responsible behaviour. Our manager's holistic approach to management and all employee's general understanding of executing the relevant processes in respect of various aspects represent an important step towards achieving a high level of quality and corporate culture, culture of safety, protection of health, working environment and the environment, as well as information security according to ISO 27001.

Human Recources

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Structure of Employees

The company's HR policy was aimed at coping with the changes brought about by the global pandemic, which also affected the rate and speed of digitalization, the transition to the online environment, and thus also influenced our internal functioning, corporate culture and HR management methods.

As at 31 December 2020, the companies of the PPA CONTROLL, a.s. group employed 717 employees. The Employee Stability Index rose to 70.7 % in 2020 (the percentage of employees working with our company for over 5 years out of the total number of employees). Out of the total number of employees, men account for 83 % and women account for 17 %. The average age in the company is 46 years.

Technical education is a key indicator for us and this fact is also shown by the profile of the positions filled. The positions most often taken on in 2020 were chief fitters, heads of project implementation, electricians, maintenance workers with electrical authorizations, and project managers.

Development of Employees

Education and overall development of employees is one of important values in the group of PPA CONTROLL, a.s. companies and by consistently adhering to it, we contribute to maintaining and expanding our customer portfolio.

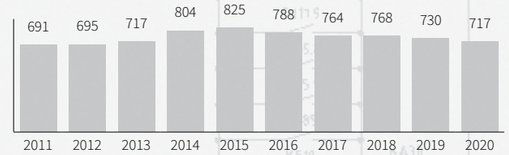
We do not perceive constant changes and their increased dynamics as a threat but as an opportunity to apply our expertise and experience to achieve our company's strategic goals in both domestic and foreign markets.

Therefore, we also adapted our education programs to that trend, which was mostly taking place online.

In 2020, the company invested 226, 780 EURO in staff training, representing on average 316 EURO per employee.

The PPA CONTROLL, a.s. company values employee loyalty, and in 2020 we focused strongly on health promotion and prevention, which has also been reflected in the structure of our benefits.

Number of employees in PPA CONTROLL group 2011 – 2020



Number of employees by Education

	Primary	Secondary	University
2019	8	400	322
2020	5	394	318
in % – 2020	**1**	**55**	**44**

Number of employees by Age

	18-29 y.	30-39 y.	40-49 y.	50-59 y.	Over 59
2019	75	172	194	200	89
2020	63	185	195	186	88

Number of employees by Gender

	Woman	Men
2019	120	610
2020	123	594
in % – 2020	**17**	**83**

Employee structure by Professions

	2019	2020
Management	25	26
Sales and Procurement	78	71
Project management	52	66
Designers, programmers	135	126
Administration	80	82
Technicians	135	128
Assembly workers	212	205
Others	13	13
Total	**730**	**717**

Company Statutory Bodies and Organizational Structure

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Executive Board

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

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

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

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

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

Supervisory Board

Mgr. Darina Pavlů, MBA, Chairman
Born December 14, 1981. She graduated from the Faculty of Law, Comenius University in Bratislava, and in 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 April 10, 1975. He graduated from the Faculty of Management, Comenius University in Bratislava. He has been holding the office as the member of the Supervisory Board since 2020.

Senior Management

PPA CONTROLL, a. s.

Ing. Bystrík Berthoty
Managing Director

Ing. Erik Vicena
Deputy CEO for Business Affairs

Ing. Marta Kramárová
Finance Director

RNDr. Viera Cehláriková
Management Systems Director

RNDr. Valéria Kormanová
Human Resources Director

JUDr. Marek Jurina
In-house Legal Counsel

Subsidiary Company Management

PPA ENERGO s.r.o.

Ing. Zoltán Lovász
Executive Director

Ing. Katarína Krchnáková
Finance and Human Resources Director

Ing. Peter Spilý
Commercial Director

Ing. Lukáš Dubrovay
Technical Director

Ing. Peter Špaňo
Production Director

Ing. Miloš Glasa, PhD.
Director of the Project Management Department

Mgr. Roman Gonda
Director of the Procurement and Administration Department

PPA INŽINIERING, s.r.o.

Ing. Marián Kolenčík
Executive Director

Ing. Igor Jamnický
Director of Traffic Technology Department

Ing. Karol Letko
Foreign Engagement Director

Kvetoslava Smejová
Finance and Human Resources Director

Ing. Roderik Gröne
Assembly Director

Ing. Stanislav Uhlár
Technical Director

PPA Power DS s. r. o.

Ing. Roman Nemček
Executive Director

Peter Hatina
Director of Facility Management Department

Ing. Michal Kolimár
Director of Energy Distribution Department

Ing. Eva Turňová
Director of Economic Department

PPA Power s. r. o.

Ing. Roman Nemček
Executive Director

PPA TRADE, spol. s r. o.

Ing. Peter Gašparových
Executive Director

PPA SLAVUTIČ KYJEV, s. r. o.

Ing. Peter Gašparových
Executive Director

PPA CONTROLL CZ, a.s.

Ing. Milan Michalík
Executive Director

PPA RUS, s.r.o.

Ing. Viliam Švec
Executive

PPA CONTROLL Magyarország Kft.

Ing. Tibor Csernák
Executive Director

References

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Energy

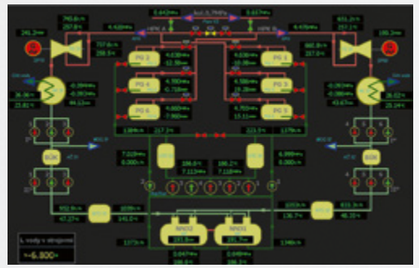
Slovenské elektrárne a.s. Bratislava, Jaslovské Bohunice Nuclear Power Plant V-2

Power Plant Units 3 and 4

- Replacement of accumulator batteries used to supply safety systems of V-2 NPP (system installations that ensure liquidation of primary circuit accidents and reactor aftercooling) - design documentation, assembly, testing and commissioning
- Replacement of batteries 1.2EE04, 14, 05 and a diesel generator station
- Verification of the TQ shower system nozzle capacity at Units 3 and 4 (measurement and evaluation of the capacity)
- Replacement of degraded sections of temperature measurement cables in the reactor shaft and steam generator box
- Innovation of dP measurements on MCP - replacement of sensors, valves and valve sets
- Optimization of the Pečeňady Pumping and Filtration Station - one-way part - elaboration of project documentation, realization of the work and performance of tests
- Replacement of the SAIA control system for circulating water pumps – replacement of an obsolete system, link to the technological computer system, testing
- Notrep power drivers innovation – project, drivers replacement, testing
- Innovation of computer stations of the Technological Computer System serving for direct measurement and processing, evaluation, archiving and visualization of technological data from the secondary and primary circuit of the NPP and for communication with other information and control systems – preparation of technical and project documentation for the equipment and components, their dismantling, assembly, and testing at Units 3 and 4 of the NPP V2
- Change of the electrical supply of the Simatic control system safeguarding parameter measurement in the important technical water system
- Replacement of electrical protection elements with new digital protection elements on 13 outlets from 6kV safety system switchboards
- Replacement of obsolete secondary instruments of temperature measuring circuits with resistance thermometer
- Transition cabinets for high pressure ECCS pumps and super emergency feed water pumps – elaboration of project documentation, execution of works
- Delivery of 400kV 1GB and 2GB switchgear – preparation of project documentation, delivery, assembly, commissioning, testing
- Replacement of obsolete Gateway PAMS – preparation of project documentation, delivery, assembly, commissioning, testing

NPP Jaslovské Bohunice

NPP Mochovce



TCS visualization - secondary circuit

Pulse pipe routing

Kráľová Hydroelectric Power Plant

Mochovce Nuclear Power Plant

Mochovce NPP Units 1 and 2

- Repair of lighting installation in area no. A201/1 and A201/2 in the hermetic zone
- Modification of the impulse pipeline to EMO 1,2 within the seismic strengthening of the Volume Compensator
- Assistance in repairs of electrical equipment to the extent of routine and general repairs during GO 2020-2022 – electric motors, generators, servo drives, distribution equipment, transformers, wiring, protection elements
- Repair of technological operator computer stations of non-unit control systems
- Repair of cabling for JEC temperature measurements – repair of cabling, supply of new temperature sensors and materials
- Replacement of float level switches in selected technological parts
- Replacement of the original and supply and installation of new instrumentation and field instrumentation for Units 1&2
- Modification of the fuel leak control system EMO1,2 – implementation project documentation ICS, cabling, operational power distribution system
- Modernization of 2xTG 250MW, cabling and wiring works for control system of TCS and HR, units 1&2
- Modification of ICS, part of the connection to the cooperating TCS systems, replacement of pressure sensors for the vacuum corrector in units 1&2
- Replacement of H_2SO_4 dosing pumps for block condensate treatment
- Update of the CPL-SIS documentation for Units 1 and 2 and the Mochovce NPP simulator

Completion of Units 3 and 4 at Mochovce NPP

- Designing and engineering activities for parts ELE and I&C
  - for the nuclear island,
  - for the conventional island
  - project documentation, on-site verification of documentation
- Implementation of the E05 Project – General electrical part – engineering, supply, installation and commissioning of the following own consumption NPP equipment – 6 kV encapsulated conductors, 6/0.4 kV transformers, 6 kV own consumption switchboards, 0.4 kV sectional switchboards, 0.4 kV auxiliary switchboards (MCC – Motor control centres – including production), 1st category secured power system (rectifiers, converters, inverters, batteries and UPS), control and diagnostic system for power supply dispatching at the central electrical control room, generator protection and outlet of power and protection of 110kV back-up power substation
- Reactor protection system (RRCS) – supply and installation of cabling
- EXCORE system – supply and installation of switchboards
- Neutron flux monitoring system – installation of switchboards and technological parameter sensors
- Implementation of the JOB12 project – engineering, supply, installation, and commissioning of selected ICS parts and the electrical part for the nuclear island – sensors reading technological parameters, sampling system for sensors reading technological parameters, sealed tube bushings, sealed cable ducts, cabling, analyzers of technical and technological parameters, main and secondary cable routes, cabling
- Completion of electrical components within the structure “High pressure compressor station”
- Engineering activities – modification of the electrical power supply scheme, recalculations concerning power cables, modification of the documentation of switchboards 8BJE85, 8BNK86, 8BNL86 and 8BNM86, final verification of the documentation
- Implementation activities – modification of switchboards (signalling, replacement of ABB circuit breakers with Schneider Electric circuit breakers, replacement of Contrade surge protectors with Schneider Electric surge protectors), modification of main and secondary cable routes, cabling installation, including connection, full earthing of the compressor station, inspections
- Implementation of the E06ER project – electrical installation works and installation of ICS for the completion of the emergency diesel generator (Unit 4 of the MO3,4 NPP), installation of main and secondary cable routes, laying and connection of cabling (HV, LV), installation of sensors, switchboards (6kV, 0.4kV, 24V, protection elements, measurement and synchronization), transformers, impulse lines, earthing, support for commissioning

Jadrová a vyraďovacia spoločnosť a.s. Bratislava

- Project of the International Fund for NPP V-1 Decommissioning Support – **D4.1 Modification of the power plant and installation of new equipment** -installation of the electrical part and I&C system according to the RPD 1-6, including deliveries
  - heavy-current distribution system – power supply and operations
  - technological process management system
  - light-current distribution system and structured cabling
- Project of the V1/Bohunice International Decommissioning Support Fund - **C7.A4 RAW (radioactive waste) remelting plant** – electrical installation works, supply of materials and cabling
- Electrical supply of the railway crossing - construction of an electrical connection to the railway crossing between the villages of Pečeňady and Veľké Kostoľany, elaboration of project documentation, implementation of the work
- Project of the International Fund for NPP V-1 Decommissioning Support - **D4.4C 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
- Connection of washing machine and dryer in special laundry in SO 803:V1
- Completion of spent fuel storage capacities – temporary power supply for cranes, operational power distribution

Trenčín Hydroelectric Power Plant

- Consolidation of the measurement and automated data collection system (MADC) at the plants of Slovenské elektrárne, a.s.
- Kráľová Hydroelectric Power Station – delivery of switchboards for TG2

Thermal Power Plant in Martin

Felton Thermal Power Plant

NPP Loviisa

ITER project

Martinská teplárenská a.s.

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

Technological part:

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

Construction part:

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

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Planta Centro Thermal Power Plant, Venezuela

Reconstruction of 400 MW Boiler No. 5 – EPC Contract

- 420 kV power transmission line (surge arresters)
- 30 MVA transformers 5BT01 and 5BT02
- Generator outlet and zero
- Generator exciter system
- Electrical protections and measurements, MicroSCADA
- HV block substation
- LV block substation
- Subordinate + 6.1m substation
- Subordinate water treatment distributor
- Subordinate pumping station distributor
- Grounding and lightning protection for technological structures
- Lighting and socket wiring for technological machinery
- Direct current sources and wiring
- Diesel generator

Doel Nuclear Power Plant (Belgium)

Electrical installation work on I&C and electrical equipment

Loviisa 1 nuclear power plant (Finland)

Replacement of low-frequency converters for reactor control rod drives – dismantling of 19 cabinets with the old Russian drive system, installation of 16 cabinets of the new system with wiring modifications and individual tests during the planned reactor shutdown.

Felton Thermal Power Plant, Cuba (EPC contract)

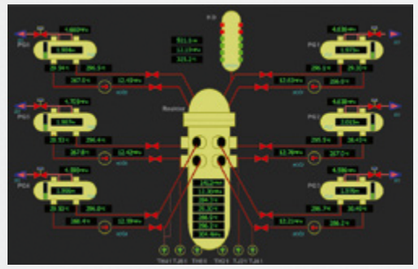
- Delivery of complete implementation documentation for the construction
- Supply of new boiler parts, supply of burners, flue gas fans, blowers, air heaters, necessary valves and accessories
- Supply of high and low pressure turbine parts including accessories such as turbine control system, lubrication system, vibration monitoring and other necessary peripherals
- Delivery of generator rotor including oil, gas and water distribution
- Delivery of automation equipment, which includes a control system, delivery of complete instrumentation for the boiler room and machine room, delivery of complete assembly material
- Supply of electrical parts including supply of main AC and DC switchboards, light switchboards, DC batteries, network synchronization, high voltage protection elements, necessary cabling and other auxiliary material
- FAT testing of selected types of deliveries for dispatch
- Technical assistance during installation

ITER project (France)

Electrical installation work, installation of electrical equipment, including water-cooled encapsulated conductors, fast discharging units and associated equipment, busbars and devices, laying of cabling and instrumentation.

Installation of cabling – laying and completion 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) – connection of the fusion reactor technologies (66 kV cables from the 66 kV substation and 22 kV cables provide the connection between 400 kV transformers and 22 kV high voltage switchgear

Planta Centro
Thermal Power Plant



TCS visualization - primary circuit

Service vehicle for measurement and diagnostics

Measuring and diagnostic works

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MERANIE, REGULÁCIA, AUTOMATIZÁCIA

Servicing, Repairing And Inspection Of Equipment

Slovenské elektrárne a.s.

- Maintenance of I&C and electric systems – Jaslovské Bohunice V-2 NPP
- Maintenance of I&C and electric systems – Mochovce NPP Block 1 and 2
- Overhaul of visualisation PCs and central server at the Diesel Generator Station
- Repair of machinery at heat exchange stations in Hlohovec, Leopoldov, Jaslovske Bohunice
- Service of I&C and electric systems and machinery at central heat exchange stations
- Preventive maintenance of fire doors open position signalling at V-2 NPP
- Modification, upgrading and engineering support of software and corrective maintenance of hardware in the technology computer system (TCS)
- Corrective maintenance of HW components and modification of SW for equipment PAMS at V-2 NPP
- Service of non-block control systems NPP Mochovce Block 1 and 2
- Repair of I&C equipment for the information system of the Jaslovské Bohunice generator
- Service, repair and maintenance of equipment of the system of controlled inputs at NPP Mochovce Block 3 and 4
- Diagnostics and service of GESTRA electric condensate drains for SE-EMO
- Diagnostics and service of GESTRA electric condensate drains for SE-EBO
- Corrective repairs and maintenance of machinery equipment of local and detached central heat exchange stations
- Corrective maintenance of CS Simatic S7 installed in technological units in SE EBO
- Corrective repair of CS Simatic S7 and its operator stations OS1-OS4
- Performance of post-warranty service repairs of non-block control systems – NPP Mochovce 1, 2

Jadrová a vyraďovacia spoločnosť a. s. Bratislava

- Complex performance of technical inspections and testing of electric systems
- Repairs and maintenance of electric systems
- Transformer check before commissioning – measurements on the transformer after refurbishment, subsequent measurements on the HV switchgear
- Network quality measurement in the R6-34 substation

Other industries

- **Bekaert Hlohovec a.s.** – full servicing of HV transformers and LV switchboards at HV substations during full power shutdown
- **Bekaert Hlohovec a.s.** – servicing
- **ART-Ex s.r.o.** – co-participation in the tests of power supply switchboards A-2019-008
- **Chipita Slovakia s.r.o.** – expert inspections and testing
- **MONDI SCP a.s.** – replacement of the frequency converter of the combustion fan during a short shutdown of the technology
- **NAFTA a.s.** – a framework contract for performance of expert inspections and professional tests of LV and I&C technical equipment of the C5 class (equipment and structures intended for exploration and extraction of oil and flammable natural gas, storage of gases or liquids in underground spaces and natural rock structures) on the basis of the authorization under Mining Act No. 51/1988 of Coll. of Laws
- **DUSLO a.s.** – Waste incineration plant and IRGANOX – service contract for CS YOKOGAWA in respect of the Waste incineration plant and Irganox – emergency standby, preventive maintenance and complex maintenance of the control system
- **DUSLO a.s.** – Service repairs on electrical and I&C equipment

Samsung production hall in Göd (Hungary)

ABB AG

Komárno - Komárom bridge

Solid waste recovery plant Rookery South

Industry Abroad

Samsung Engineering Hungary, Ltd.

Car battery factory, Göd (Hungary)
Supply and installation of equipment and materials, full testing, inspections, and examinations and commissioning of the supplied equipment

- Grounding and a lightning rod
- LV switchboards
- HV and LV distribution
- Main and emergency lighting systems

SK Battery Hungary Kft.

Car battery factory, Komárom (Hungary)
Implementation of the electrical part, including:

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

Volta Energy Solution Hungary Kft.

Car battery component factory, Környe (Hungary)
Installation of ELECTRO and I&C system equipment, installation of main and secondary cable routes, laying and wiring of cabling, manufacture of LV and light current switchboards, connection of technologies

Hódút Kft.

Komárno-Komárom bridge (Hungary)
Installation of the electrical part, including:

- supply and assembly of cable lines
- supply and installation of a 22kV transformer station
- supply and installation of public, signalling, and lighting system designing
- supply and installation of an electrical alarm system

Hitachi Zosen Inova

ROOKERY SOUTH Incinerator Project (GB)
Engineering activities and electrical installation works on the project for the construction of a municipal and commercial solid waste recovery plant (545,000 tonnes), with an output capacity of 60 MW of power, including:

- preparation of an implementation project for the ELECTRO part, including a 3D model
- installation of I&C system equipment, supply and installation of main and secondary cable routes, earthing
- laying of HV, LV, I&C, and communication cables (bus and fibre optic) including their connection
- inspections

ABB AG / Wien Energie

Project Fernkältezentrale Stubenring (Austria)
Electrical installation and designing work, including:

- preparation of an implementation project for the ELECTRO part, including the as-built documentation
- installation of busbar system, LV and HV switchboards, transformers 22/0.4kV, electrical fire alarm devices
- supply and installation of LV and HV cabling and cable routes, lighting switchboard, lighting, emergency lighting, earthing
- measurements and tests to the extent of the delivery, commissioning

Derby&Derbyshire waste treatment centre (GB)

Delivery and installation of wiring

- Production, delivery and installation of switchboards, interconnecting boxes, switch boxes
- Delivery and installation of 110 V DC and 400 V AC UPS
- Delivery and installation of armoured cables, cable support systems for low voltage distribution, instrumentation and optical networks
- Testing of cable systems, instrumentation and optical networks
- Engineering support of the project and installation
- Actual execution documentation preparation

Duslo Šaľa

Slovnaft Bratislava refinery

Slovnaft Bratislava refinery - sewerage pumping station

U. S. Steel Košice

Industry Slovakia

Duslo, a.s., Šaľa

- Modernization of HV substation 6R1 - Processing of complete realization documentation (construction part, HV, LV, lightning conductor) for reconstruction of substation 6R1 in building 42-20, the site of DUSLO - SBÚ A, operation ČP3
- Optical connection - supply of materials and services associated with the implementation of an optical line between the buildings of DUSLO a.s.
- Storage of raw materials - processing of implementation project documentation, electrical part, for the implementation of technological modifications in the operation of DUSLO, DPo
- SW modifications and tests - deliveries of services connected with control and modifications of control system SW at operations after shutdown reconstructions
- Restoration of the HV switchboard at Vlčie Hrdlo – supply of materials and services (preparation of an implementation project documentation, dismantling, assembly, testing, expert inspection and testing, official test)
- Replacement of pumps P-552A,B – electrical part and I&C – supply of materials and services (installation, tests, expert inspection and testing, official test) associated with the renewal of 2 pumps at Pumping station 4
- Replacement of HTR I and HTR II HV devices – supply of materials and services (preparation of the implementation project documentation, installation, tests, expert inspection and testing, official test) associated with the renewal of 8 HV cubicles at HTR1 and 2
- Supply of electrical and I&C parts for the project " H103 elevator replacement" – supply of materials and services (assembly, tests, expert inspection and testing, CS SIEMENS SIMATIC software + visualization) related to the renewal of the H103 elevator
- Supply of materials for the reconstruction of buildings 42-08, 42-09 and DAM
- Cyber security of the switching station, part Structure Erection for cyber security – supply of materials and services (preparation of RPD, materials, assembly, testing, expert inspection and testing) related to safeguarding the cyber security of the control system
- Reconstruction of a line in PEIKO – supply of materials and services (installation, testing, SW CS SIEMENS SIMATIC) associated with the renewal of 2 PLC OMRON

Slovnaft,a.s.

Project: Construction of the ethylene storage tank, block 71

- Supply, assembly, and installation of power distributors within the site
- Supply and installation of grounding and lightning conductor for temporary site buildings
- Supply and installation of a site lighting system

Sewerage pumping station

- Power distribution and heating in the building PS 03
- TPCS and I&C in building PS 04
- EPS in building PS05
- Elaboration of project tender documentation for Kľačany and Kapušany terminals (reconstruction of terminals)
- Addition of data switchboards to control rooms
- Cooler (Air Cooler) connection – implementation of the electrical and I&C part, preparation of an implementation project documentation and as-built documentation, installation of I&C and electrical switchboards, installation of cabling and lightning conductor, control system PD-MSA

U. S. Steel Košice

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

- Supply and installation of indoor electrical installations, cable support systems
- Supply and installation of rotor starter, temperature and pressure sensors, electro pneumatic actuators in explosive atmospheres
- Supply and installation of LV switchboards and Symatic S7 Control System & Visualization

Reconstruction and modernization of boiler house, Stage 1 – K7 boiler

- Supply and installation of indoor electrical installations and cable support systems
- Supply and installation of lighting fixtures and electrical appliances
- Supply and installation of LV switchboards
- Supply and installation of central battery system

Repair of RS1V and RS2V control on URS

- preparation of project documentation
- 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

- preparation of project documentation
- 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
- Chemical Water Treatment System Heating Plant – repair of the cable space under substation R013
- Inspections, tests, training

CRH Slovensko

Production plant Minebea Slovakia

Mondi SCP Ružomberok plant

Water slalom premises in Liptovský Mikuláš

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POZAGAS a.s

- Installation of pressure transducers on the intermediate rings of groups of selected ZS6 probes – project documentation and the work execution

Nafta a. s.

- Equipment for and connection of a well, change of wiring of pump motors MHGL2, MHGL3 at CS Plavecký Štvrtok – parts electro and I&C
- Installation of pressure sensors at the supply station of the CS Plavecký Štvrtok
- Addition of EFS at TK 7 Malacky

Zemianske Kostoľany – Reconstruction of Fuel Underground Storage

- Supply and installation of heavy current and weak current lines in PS01 – Indication of fuel leakage in T53-60
- Supply and installation of I&C for HVAC
- Temporary tunnel lighting under repositories throughout construction

Slovak canoeing – Water slalom premises in Liptovský Mikuláš

Reconstruction and modification of the premises on the Váh River – electrical part, the implementation consists of preparation of project documentation and delivery of the HV transformer station, LV switchboards, and LV wiring, a measuring and control system for monitoring and controlling of valve positions, water levels, and pump performance

MONDI SCP a.s., Ružomberok

ECO plus PM19 investment project

- Technological wiring project - supply and installation of cable routes and cabling, including connection, participation in activation, addition of 43 lightning conductor leads
- production and supply of 21 pneumatic switchboards
- 11kV distribution - supply and installation of cable routes and cabling
- Building electrical project – supply and installation of cable routes, cabling, socket, lighting circuits and lightning protection for PM19 in buildings SO24AB, SO24C, SO24E, SO24H and SO24J, including supply of lighting switchboards, commissioning, and expert inspection and testing
- Supply, laying, and connection of the cabling for the TR30 HV transformer, including expert inspection and testing
- Supply, installation, and connection of the cabling for the sprinkler switchboard
- Supply and installation of cable routes, cabling, socket, lighting circuits, and lightning conductor for PM19 shelter SO24I, including supply of lighting switchboard, commissioning and expert inspection and testing

Minebea Slovakia s.r.o.

Production plant for mechatronic drives UB

- Supply and installation of two transformer stations
- Supply and installation of HV cabling
- Supply and installation of outdoor LV cabling
- Supply and installation of outdoor light-current cabling
- Supply and installation of a public lighting system
- Supply and installation of light and socket wiring
- Supply and installation of weak-current wiring
- Supply and installation of power lines for technologies
- Supply and installation of an electric fi re alarm system
- Supply and installation of a voice fi re alarm system
- Supply and installation of a CCTV system

CRH (Slovensko) a.s.

- Replacement of control system of L01 and L02 lines - disassembly and assembly of switchboard elements, delivery and assembly of switchboards, PSUV cabinets, repeaters, boxes, inductive sensors, cables and cable routes
- Dosing of finely ground sand - supply and installation of artificial lighting and distribution, lightning protection, addition of elements to the switchboard, supply and installation of unblocking and PSUV cabinets, cables and cable routes
- Adjustment of ash dosing into RP PC2 - disassembly and assembly of switchboard elements, delivery and assembly of unblocking, PSUV and junction boxes, new cables
- Reconstruction of a backup power supply system for the control room – operational safety enhancement – electrical installation works, modification of switchboards EP0-1M1, EP0-1M1.A1 and EP0-1M2, delivery of switchboard EP0-1M3, installation of new UPS

SEYON E-HWA AUTOMOTIVE SLOVAKIA

Handling activities at the transformer station - production and logistics plant in Čadca

- HV substation - Switchboard 22 kV 4 bays, type SM6, 22000 V, 50 Hz, 630A, 2 pcs dry transformer T1.1 and T1.2 Trihal 22kV/0.4 kV, 2 pcs Switchboard 0.4 kV - RH1.1 and RH1.2 sheet steel box IP30/IP00, 400/230 V, 50 Hz, 3200A.
- SO 014 HV connection 22kV - cable length 1,480m, grounded. Performance of activities based on a service contract (management of the HV substation and HV connection):

Ikea Industry

Thermal Power Plant in Zvolen

FELLS Ilava hall

Wastewater treatment plant

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Continental Matador Rubber s.r.o., Púchov

- Supply and installation of electrical equipment (HV switchboards, transformer station, HV transformer)
- Increase of T28 transformer station power output

Eurotalc, a.s.

Talc processing plant Gemerska Poloma

- Supply and assembly of complete power and weak-current wiring in six production halls and one administrative building
- Implementation of HV connection
- HV relaying
- Supply and installation of heavy current, weak current lines and fibre optic network throughout the facilities

Zvolenská teplárenská, a. s.

Remote control

- Hotline, service and emergency service

INGSTEEL spol. s r.o.

- Reconstruction of the Hills Hotel in Stará Lesná – supply and installation of electrical wiring, lighting system

Fells Rotaform

FELSS Ilava Hall - Technological equipment power supply

- Delivery and installation of the transformer and its connection to HV
- Delivery and installation of the LV RH03 switchboard
- Delivery and installation of the RH03 compensation switchboard
- Delivery and installation of the SIEMENS PS2500/PS1600 busbar system
- Power supply of production technology, including carrier routes
- Services: project documentation, individual, complex testing, commissioning, personnel training, participation in guarantee testing

Ikea Industry Malacky

Analysis of data collection from AHUs

- Analysis of possible data collection from AHUs
- Design of technical solution for data collection from AHUs
- Programming and data acquisition of AHUs
- Supply of SW Wonderware
- Supply of application software for SW Wonderware

ZF Slovakia a.s.

ZF Levice – Geňa – Reconstruction of main lighting
ZF Trnava – General overhaul of lighting in PKW production hall in building No. 24

- Dismantling of original and supply and installation of new lighting fi xtures, heavy current lines and communication wiring to DALI control system (supplied by Philips)

Adler Pelzer Automotive Slovakia, s.r.o.

BRA1 hall - HP PELZER – Power supply of technological switchboards

- Development of PD
- Supply and installation of LV switchboards (with compensation)
- Supply and installation of cable support systems
- Supply and installation of power cables, including termination

SCA Hygiene Products Slovakia, s. r. o.

PS02 HV connection and VH6 substation switchboards

- Transformer delivery, installation and HV connection
- Delivery and installation of HV disconnectors including connection to HV supply in VH4
- Delivery and installation of switchboards in the VH6 substation, fields RH11/x and RH12/x, and their connection to respective transformers
- Delivery and installation of RC11 and RC12 compensation switchboards on the premises of SCA Hygiene Products Slovakia, s. r. o.
- Services: project documentation, individual, complex testing, commissioning, personnel training, participation in guarantee testing

Wastewater treatment plant (WWTP)

- WWTP Tornaľa agglomeration
- WWTP Plotár
- WWTP Krupina
- WWTP Látky

Považský Chlmec tunnel control centre

Považský Chlmec tunnel

Motorway D3

Motorway feeder Lietavská Lúčka – Žilina

Technological equipment for Roadway Tunnels, Motorways and Railways

NDS , a.s. (National Motorway Company)

D3 motorway between Žilina (Stražov) and Žilina (Brodno) - the structure of the year 2017

Within the construction of the D3 motorway between Žilina (Strážov) and Žilina (Brodno), the company PPA CONTROLL, a. s., made complete delivery of the following facilities of the technological part of the Považský Chlmec tunnel:

- Complete fire alarm system (FAS)
- Delivery, installation of switchboards of the central control system, including the SIMATIC S7 control system
- Programming of the traffic control system and tunnel technology control system
- Delivery and installation of illuminated and LED variable traffic signs
- Dispatching telephone
- Visualisation in the Integrated Operator Workplace of the Považská Bystrica Motorway Administration and Maintenance Centre

Within the construction of the D3 motorway between Žilina (Strážov) and Žilina (Brodno) we also made complete delivery of construction and technological parts of the Motorway Information System (MIS):

- Communication and connection infrastructure
- Delivery, installation, integration and management of complete variable traffic signs
- Traffic signals
- Technology nodes
- Cut-off signal-circuit controllers
- Delivery, installation, integration and visualisation of meteorological stations
- Surveillance cameras
- Electrical security system
- SIMATIC S7 control system
- Visualisation in the Integrated Operator Workplace of the Považská Bystrica Motorway Administration and Maintenance Centre
- Supply, installation and configuration of a vehicle counter with axle weighing at the Brodno intersection

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Motorway feeder Lietavská Lúčka – Žilina, Phase II, km 4.7 – 7.3, feeder information system

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

Delivery, assembly and maintenance of our installations of road tunnels

Horelica Tunnel

- Variable traffic sign service
- Servicing CMS including visualization
- Servicing HV parts and Electrical inspections

Branisko Tunnel

- Maintenance of fire alarm system, fixed fi refighting system, high voltage supply
- Maintenance of D1 motorway Studenec – Beharovce
- Maintenance of D1 motorway Jablonov – Studenec
- Breakdown repairs

Borik Tunnel

- Standby power systems
- Emergency call equipment – SOS boxes
- Surveillance closed circuit TV in the tunnel and Radio connection
- Communication circuits – transmission system
- Telephone connection and Tunnel radio
- Fire doors and Central control system
- Measuring of physical variables
- Traffic signs
- Control centre equipment
- Fire alarm system
- Tunnel lighting and Tunnel ventilation
- Fire water supply – electric systems
- Outdoor illumination
- Breakdown repairs

Maintenance of Motorway Information Systems (MIS)

- Motorway D1: Dubná Skala - Turany, Piešťany - Sverepec, Sverepec – Vrtižer, Vrtižer – Hričovské Podhradie, Važec – Mengusovce, Mengusovce – Jánovce, Studenec – Beharovce
- Motorway D3: Hričovské Podhradie – Žilina (Strážov), Žilina (Strážov) – Žilina (Brodno)

Scope:

- Construction (power supply distributors, cabling, grounding)
- Emergency call stands
- Electronic security alarms
- Surveillance cameras
- Technological communication switchboards
- Variable message signs – laminated and LED
- Road signal lights and Radio transmission
- Cut off signal-circuit controllers
- Operator station

Automatic traffic counters

- Delivery and installation of automatic traffic counters
- Delivery of software
- Testing and commissioning

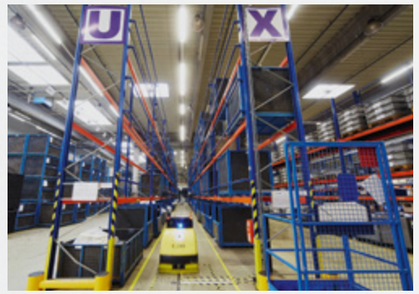
Dopravoprojekt, a.s.

- D4/R7 Bratislava ring road project documentation: building permit documentation and construction execution documentation for the entire electrical part, including the MIS

Amberg Engineering Slovakia, s.r.o.

- R4 Prešov – northern bypass – Okruhliak tunnel, technological equipment – project documentation for a tender with details corresponding to documentation of project implementation

D1 Logistics Park Senec



Automotive Industrial Park Lozorno

Drahovce photovoltaic power plant

Technical Report

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Outsourcing of Energy Management

Comprehensive Industrial Site Management

Administration of technological equipment of buildings, energy networks of industrial sites, energy process optimisation, energy supply, local energy distribution, engineering and supply activities:

- D1 Logistics Park Senec
- Prologis Park Senec
- DHL Headquarters Senec
- Manufacturing plant ZF Slovakia Trnava, Levice
- Automotive Industrial Park, Lozorno
- P3 Bratislava Airport
- Mahle Behr Senica

Management and administration

- Preparing and reviewing budgets
- Records of costs and management processes
- Coordination of suppliers

Management of utility networks

- Servicing, maintenance and repairs of:
  - HV and LV power lines
  - Gas pipelines
  - Heat pipelines
  - Water pipelines
  - Foul water drainage and storm sewers

Construction and development of infrastructure in D1 Park Senec

- Roads
- HV and LV power lines
- Gas pipeline
- Water pipeline
- Intelligent data collection from meters
- Foul drainage and storm sewers

Technical building management

- Servicing, maintenance and repairs of:
  - Heating systems
  - Air conditioning and cooling systems
  - Fire - technical and safeguarding systems
  - Compressed air distribution
  - HV, LV and I&C systems
  - Lifting devices
- Expert inspections and technical testing of classified technical equipment:
  - electrical
  - gas
  - pressure

Non-technical building management

- Waste management
- Road maintenance, green maintenance
- Cleaning
- Guard service

Delivery and Distribution of Energy

- D1 Logistics Park, Senec
- P3 Logistics Park, Lozorno & Bratislava Airport
- D&K Kü ster Industrial Park, Devinska Nova Ves
- EUROVEA Shopping Centre, Bratislava and City Arena, Trnava
- Galeria Shopping Centre, Lučenec
- Automotive Industrial Park, Lozorno

Deliveries of electricity and gas

- Both electricity/gas supply
- Online electricity and gas consumption surveys
- Notifications of cut-off points and defined parameters

Operation of energy distribution networks

- Creation of local distribution networks
- Registration of offtake points, legislative certification
- Preparation and approval of own distribution pricelists
- Consumption measurements, billing for the consumption
- Energy management via mobile applications and Power IEM web portal
- Local energy sources

Operation of water and sewer systems

- acting as professional representative for the operation of public water mains
- acting as professional representative for the operation of public sewers
- servicing, maintenance and repairs

Energy Audits and Optimization Services

- Železničná spoločnosť Slovensko
- Plastic Omnium Auto Exterios
- SLOVALCO Žiar nad Hronom
- ProLogis Slovak Republic
- Faurecia Slovakia s.r.o.
- IAC Group (Slovakia) s.r.o.
- Calmit, spol. s r.o.

General identification of energy management

- Professional assessment of the condition of buildings, technologies and facilities
- Determining energy demand and potential savings

Developing economically recoverable austerity plans

- Measures requiring no capital investment
- Low-cost measures and long-term measures

Implementing austerity plans

- Coordination of processes, potential financial partnership

Operation of Energy Sources

- Photovoltaic power plant, Drahovce
- Photovoltaic power plant, Čechanky
- Photovoltaic power plant, Seľany

Technical operation of plants

- Trouble-free operation of plants, servicing, maintenance

Legislative resource management

- Compliance with plant legislative obligations, monitoring, billing inputs, reporting of mandatory data

New Generation
Hospital Michalovce

Multipurpose
building Tabáň
in Nitra

Hospital
Stará Ľubovňa

Košice
Football Arena

Other

SLOVMAG, a.s. Lubeník

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

Svet zdravia, a. s.

New Generation Hospital Michalovce

- Delivery and installation of high-current wiring, cable support systems and installation of terminators
- Supply and installation of a Medical Insulated System
- UPS supply
- Delivery and installation of a low-voltage connection to the new hospital building
- Services: individual, complex testing, commissioning, personnel training, participation in guarantee testing

NSP Bardejov (a hospital with polyclinic)

Construction of the urgent medicine section

- Supply and installation of heavy current cabling
- Supply and installation of a Medical Insulated System
- Supply and installation of light and socket wiring
- Supply and installation of an electric fire alarm system
- Supply and installation of a voice fire alarm system
- Supply and installation of a CCTV system
- Supply and installation of a public lighting system

Completion of premises and infrastructure modernization at Ľubovnianska nemocnica, n. o.

- Supply and installation of lighting and socket wiring
- LV connection
- Supply and installation of structured cabling
- UPS supply
- Supply and installation of a Medical Insulated System
- Supply of the Central battery system

Pavol Jozef Šafárik University in Košice

- Repair of Transformer station TS 04 Trieda SNP PHASE III
- Replacement of LV substation deons
- repair of LV cabling

Multipurpose building Tabáň in Nitra

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

KFA – Košice Football Arena

- Supply and assembly of a transformer station
- Supply and installation of HV switchboard
- Supply and installation LV switchboards for the main building and built-in parts
- Installation of earthing and lightning conductor
- Supply and installation of heavy current cabling and distribution system for playground lighting system
- Supply and installation of heavy current cabling and distribution system – lights, sockets, and technologies
- Supply and installation of emergency lighting system
- Supply and installation of UPS and diesel generator
- Supply and installation of outdoor lighting system
- Preparation of the as-built documentation

J & T Real Estate, a.s.

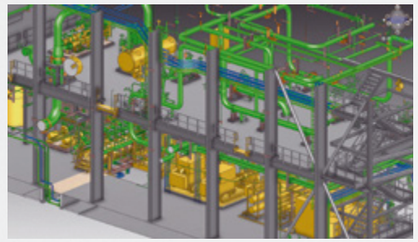
Zuckermandel - ČSOB bank

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

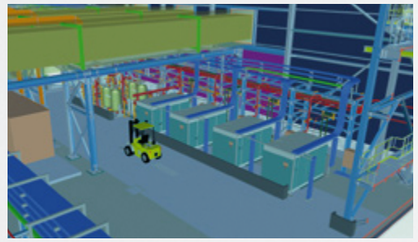
Zuckermandel - administrative buildings

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

Switchboard manufacturing plant assembly hall



Visualization of the engine room in the Newhurst incinerator plant



Visualization of the compressors in the Rookery incinerator plant

Renewal of production unit lighting systems in Duslo Šaľa

PPA CONTROLL®
TECHNOLÓGIE POD KONTROLOU
MERANIE, REGULÁCIA, AUTOMATIZÁCIA

Supply of Switchboards - Various Customers

- DELTECH a.s.
- INTECH CONTROL s.r.o.
- TTS Martin, s.r.o.
- SAT Systémy automatizačnej techniky, spol. s r.o.
- King Dynamics s.r.o.
- Martinská teplárenská a.s.
- Slovenské elektrárne a.s.
- SK Battery Hungary Kft. (Hungary)
- Volta Energy Solution Hungary Kft. (Hungary)
- Samsung Engineering Hungary, Ltd. (Hungary)
- TATRA TRADING INTERNATIONAL, s.r.o.
- MONDI SCP, a.s.

Engineering Activities in the Field of I&C and Electrical Installation

Providing design, programming, 3D modelling and consulting activities for various customers in the field of energy and industry (VUCHT a.s., IDO HUTNÝ PROJEKT a.s., SAT Systémy automatizačnej techniky, spol. s r.o., PANCO, spol. s r.o., Mondi SCP, a.s., Slovnaft a.s., Slovenské elektrárne a.s., Škoda JS a.s.)

Reducing Energy Intensity

Environmental Quality Operational Program

The lighting and wiring replacement projects are implemented within the framework of the OP CFP (Slovak Innovation and Energy Agency 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 in workplaces by, in particular, increasing the intensity of lighting and improving the lighting uniformity. The new lighting and wiring systems take account of the extreme environment-related demands, such as dust, chemicals, vibrations, and ambient temperatures in order to reduce servicing interventions to a minimum and to allow cleaning the equipment with pressurized air or water.

DUSLO a.s. “Renewal of production unit lighting systems”
– the project aimed at the renewal of lighting systems in 6 production factories with 3-shift non-stop operation, where workplaces are illuminated by artificial lighting systems covering the entire layout of each production hall, in a highly dusty and corrosive environment. The implementation of the contract includes the full replacement of cable routes, cabling, and lighting technology with a large share of innovative technologies (LED lights, intelligent DALI light control system).

Balance Sheet, Profit and Loss Account

Annual Report
2020

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MERANIE, REGULÁCIA, AUTOMATIZÁCIA

Consolidated Balance Sheet ending with the 31st December 2020 in thousands of EURO

	2020	2019
Non-current assets	**15.533**	**14.927**
Intangible assets	136	151
Tangible assets	9.216	9.156
Other movable property	5.470	4.867
Goodwill	0	0
Non-current financial assets	2	2
Other financial assets	118	102
Long-term receivables	13	10
Deferred tax assets	578	639
Short-term assets	**86.626**	**88.920**
Inventory	4.887	1.957
Receivables	41.153	44.168
Other receivables	681	1.527
Short-term accruals	4.398	788
Cash and bank accounts balances	35.507	40.480
Total assets	**102.159**	**103.847**
Equity attributed to shareholders	**62.357**	**56.899**
Share capital	1.052	1.052
Fund of exchange differences	28	39
Capital and Statutory funds	302	301
Funds of profit	8.228	8.035
Retained earnings	43.268	35.890
Profit for the period attributed to shareholders of the mother company	**9.479**	**11.582**
Equity attributed to non-controlling shares	1	2
Total equity	**62.358**	**56.901**
Long-term liabilities	**9.867**	**9.956**
Long-term trade and other payables	1.180	1.200
Deferred tax liabilities	64	61
Long-term provisions	8.623	8.695
Current liabilities	**29.934**	**36.990**
Short-term trade payables	23.787	24.269
Liabilities to the state	1.936	1.799
Other current liabilities	2.448	2.008
Short-term income and accrued expenses	441	40
Short-term provisions	1.313	1.365
Short-term borrowing	9	7.509
Total liabilities	**39.801**	**46.946**
Total equity and liabilities	**102.159**	**103.847**

Consolidated Profit and Loss Account ending with the 31st December 2020 in thousands of EURO

	2020	2019
Sales	**134.072**	**170.485**
Cost of goods sold	-21.380	-10.344
Shaft material and energy	-44.672	-64.243
External services	-27.658	-48.058
Occupational loan	-29.188	-28.727
Depreciation	-1.363	-1.310
Gross margin	**9.811**	**17.803**
Other operating income	3.597	364
Other operating expenses	-1.005	-2.790
Operating profit	**12.403**	**15.377**
Financial income	522	173
Financial expenses	-828	-733
Profit before tax	**12.097**	**14.817**
Income tax	-2.617	-3.233
Profit after tax	**9.480**	**11.584**
Shares in associated companies affiliated operations	0	0
Discontinued operations		
Profit from discontinued operations	0	0
Profit for the period	**9.480**	**11.584**
Assigned to:		
holders of the parent company	9.479	11.582
non-controlling shares	1	2

Contacts

Annual Report
2020

PPA CONTROLL
TECHNOLÓGIE POD KONTROLOU
MERANIE, REGULÁCIA, AUTOMATIZÁCIA

Registered Office

PPA CONTROLL, a.s.
Vajnorská 137, 830 00 Bratislava, Slovakia,
tel.: + 421 2 492 37 218, fax: + 421 2 492 37 313, e-mail: ppa@ppa.sk, www.ppa.sk

Headquarters

PPA CONTROLL, a.s.
Vajnorská 137
830 00 Bratislava
ppa@ppa.sk

Managing Director
Ing. Bystrík Berthoty
Tel.: + 421 2 492 37 356
fax: + 421 2 492 37 313
e-mail: berthoty@ppa.sk

Deputy CEO for Business Affairs
Ing. Erik Vicena
Tel.: + 421 2 492 37 219
fax: + 421 2 492 37 313
e-mail: vicena@ppa.sk

Finance Director
Ing. Marta Kramárová
tel.: +421 2 492 37 355
fax: +421 2 492 37 313
e-mail: kramarova@ppa.sk

Director of the International Projects Department
Ing. Milan Michalík
tel.: +421 2 492 37 327
fax: +421 2 492 37 313
e-mail: michalik@ppa.sk

Director of the Technological Projects Department
Ing. Richard Pavlik
tel.: +421 2 492 37 338
fax: +421 2 492 37 313
e-mail: pavlik@ppa.sk

Management Systems Director
RNDr. Viera Cehláriková
tel.: +421 2 492 37 288
fax: +421 2 492 37 313
e-mail: cehlarikova@ppa.sk

Human Resources Director
RNDr. Valéria Kormanová
tel.: +421 2 492 37 322
fax: +421 2 492 37 313
e-mail: kormanova@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.ppa.sk**
Tel.: +421 2 492 37 335, E-mail: marketing@ppa.sk

Subsidiaries and joint Ventures

PPA ENERGO s.r.o.
Vajnorská 137, 830 00 Bratislava
tel.: + 421 2 442 52 537
fax: + 421 2 492 37 547
e-mail: energo@ppa.sk

PPA INŽINIERING, s.r.o.
Vajnorská 137, 831 04 Bratislava
tel: +421 2 492 37 271
fax: +421 2 492 37 300
e-mail: inziniering@ppa.sk

- **BANSKÁ BYSTRICA branch**
  Sládkovičova 47,
  974 05 Banská Bystrica
  tel.: + 421 48 4161 002
  fax: + 421 48 4163 175
  e-mail: hanova@ppabb.sk

- **ŽILINA branch**
  Radlinského 7, 010 01 Žilina
  tel.: + 421 41 5056 111
  fax: + 421 41 562 38 46
  e-mail: obertova@ppaza.sk

- **KOŠICE branch**
  Gemerská 3, 040 01 Košice
  tel.: + 421 55 789 43 23
  fax: + 421 55 789 43 22
  e-mail: sivakova@ppa.sk

PPA Power s.r.o.
Sládkovičova 47,
974 05 Banská Bystrica
tel.: + 421 48 416 11 34
e-mail: ppapower@ppapower.sk

PPA Power DS s. r. o.
Vajnorská 137, 830 00 Bratislava
tel.: + 421 905 338 730
e-mail: ppa@ppapower.sk

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

Regional Department
Sládkovičova 47
974 05 Banská Bystrica
tel.: +421 48 416 11 34, 416 11 27
e-mail: sekretariat@ppapower.sk

PPA TRADE, spol. s r.o.
Vajnorská 137, 830 00 Bratislava
tel.: + 421 2 444 54 570
fax: + 421 2 444 54 572
e-mail: trade@ppa.sk

PPA SLAVUTIČ KYJEV, s.r.o.
Vajnorská 137, 830 00 Bratislava
tel.: + 421 2 492 37 282
fax: + 421 2 444 54 570

PPA CONTROLL CZ, a.s.
Hlinky 162/92
603 00 Brno
Česká republika

PPA RUS, s.r.o.
Júliusa Fučíka 17-19
123 056 Moskva
Ruská federácia

PPA CONTROLL Magyarország Kft.
1123 Budapest
Alkotás utca 53. A. ép. 6. em.
Maďarsko

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