

2019-2025

PROJECT DEVELOPED AND IMPLEMENTED

*List of main activities of "Automated systems and complexes"
company for the period of 2019 - 2025.
A complete list of activities you will find at our
company site **WWW.ASC-URAL.RU***

METALLURGY

FERROUS METALLURGY

Automated process control system for continuous-casting machine No.2..	JSC «Volzhsky tube works», Volzhsky, Volgograd region.	2025
Providing maintenance services for APCS and electric drives of continuous mill.	OAO Seversky pipe plant, Polevskoy, the Sverdlovsk region.	2025
Redesign of electric drives for cold-rolling mill 720 SUNDWIG. Stage 3. Electric drives of a screw-down mechanism and specific tension measuring rolls.	PAO Asha metallurgical plant, Asha, the Chelyabinsk region.	2025
Overhaul repair of control system for main drive of mill 710.	OOO Motovilikha – civil machine building, Perm.	2025
Upgrading of electric drives for levelling machine area and central lubricating station of mill 320/150.	OOO Amurstal (Limited Liability Company), Komsomolsk-on-Amur, the Khabarovsk Territory.	2025
After-sales service of frequency converters ACS6000 for main drives of piercing mill.	OAO Seversky pipe plant, Polevskoy, the Sverdlovsk region.	2025
Upgrading of continuous mill supplied by Electrostal heavy machine plant	PAO Sinarsky pipe plant, Kamensk-Uralsky, the Sverdlovsk region	2025
Modernization of electrical equipment for the finishing line of bar-rolling mill shop – stage II.	OOO Amurstal, Komsomolsk-on-Amur, the Khabarovsk Territory.	2025
Modernization of control system, units and mechanisms of recrystallization annealing plant No.1.	OOO VIZ-Steel (Limited Liability Company), Ekaterinburg.	2025
Upgrading the zinc coating control system.	PAO NLMK (Public Joint Stock Company), Lipetsk.	2025
«Upgrading the control system for point operating mechanisms (deviators) of rolling mill».	OOO PromSort-Kaluga (Limited Liability Company), the village of Vorsino, the Kaluga region.	2025
Reconstruction of insulating coating plants No.3,4,5,7. Development of technical documentation, delivery, supervision of erection, commissioning activities and warranty tests, engineering-advisory services.	OOO VIZ-Stal (Limited Liability Company), Ekaterinburg.	2024
Integration of data gathering and monitoring system (software product Winnum) and process control system «PIMS» in tube rolling shop of AO TAGMET (Joint Stock Company).	AO Taganrog metallurgical plant (Joint Stock Company), Rostov region, the city of Taganrog.	2024
Dynamo steel shop. Retrofitting and upgrading of protective coating plant No.2.	PAO NLMK (Public Joint Stock Company), Lipetsk.	2024
Dynamo steel shop. Installation of welding machine into process-related calcining and coating line.	PAO NLMK (Public Joint Stock Company), Lipetsk.	2024
Delivery of equipment under the project named «Flat cold-rolled products shop. Slitting line No.10. Modernization of control system».	PAO NLMK (Public Joint Stock Company), Lipetsk.	2024
Production and delivery of equipment for dynamo steel shop, continuous pickling line, electrical room. Exit end.	PAO NLMK (Public Joint Stock Company), Lipetsk.	2024
Modernization of zinc coat density control and measurement system.	PAO NLMK (Public Joint Stock Company), Lipetsk.	2024
Dynamo steel shop. Continuous pickling line. Modernization of auxiliary systems.	PAO NLMK (Public Joint Stock Company), Lipetsk.	2024
Development of software for automation of the device of magnetic particle flaw detection in a joint weld zone of tool joint tubes.	AO «SintZ» (Joint Stock Company), Kamensk-Uralskiy, the Sverdlovsk region.	2024

Modernization of electrical equipment for bar iron finishing section and central lubricating station of combination wire-rod mill 320/150.	OOO Amurstal (Limited Liability Company), Komsomolsk-on-Amur.	2024
Modernization of control system for mill 710 main drive.	PAO Motovilikha plants (Public Joint Stock Company), Perm.	2024
Production and delivery of equipment, erection supervision and start-up and adjustment works for overhaul repair of APCS for electroslag refining furnace No.2 in shop No.21.	PAO Motovilikha plants (Public Joint Stock Company), Perm.	2024
Replacement of obsolete suspended mixture preparation installations at protective coating machine No. 1 and No. 2 by the modern ones applied at protective coating machine No. 4.	PAO NLMK (Public Joint Stock Company), Lipetsk.	2024
Retrofitting and upgrading of thread-cutting machines with an electric and a hydraulic system.	AO SinTZ (Joint Stock Company), Kamensk-Uralskiy, Sverdlovsk region.	2024
Updating the visualization system for GUK1-VK1 area and mill stand 1300.	AO EVRAZ Nizhny Tagil metallurgical integrated iron-and-steel works (Joint Stock Company), Nizny Tagil, Sverdlovsk region.	2024
Upgrading of control system for a roller conveyor cart of continuous-casting plant 4,6.	PAO NLMK (Public Joint Stock Company), Lipetsk.	2024
Retrofitting and upgrading of continuous annealing plant No.4.	PAO NLMK (Public Joint Stock Company), Lipetsk.	2024
Retrofitting and upgrading of protective coating plant No.2.	PAO NLMK (Public Joint Stock Company), Lipetsk.	2024
Engineering-advisory services for computer software development/adjustment and equipment commissioning as part of the project on: «Straightening annealing line No. 8 facilities by LOI/TENOVA, located at the site of NLMK India Coating Private Limited».	PAO NLMK (Public Joint Stock Company), Lipetsk.	2024
Control system upgrade for a roller table cart of Continuous-Casting Plant 4, 6.	PAO NLMK (Public Joint Stock Company), Lipetsk.	2024
Reconstruction of hydraulic screwdown mechanisms at reversing hot-rolling mill «5000».	PJSC Severstal, Cherepovets.	2024
Electrical equipment update for a continuous pickling line.	PJSC NLMK, Lipetsk.	2024
Upgrading of automatic pipe-threading line No.5.	JSC «SinTZ», Kamensk-Uralskiy, Sverdlovsk region.	2024
Automated Process Control System for CCM No.2.	PJSC TMK, Volzhsky Pipe Plant, Volzhsky, the Volgograd region.	2024
Retrofitting of Sundwig 720 mill electric drives PJSC Asha Metallurgical Plant, the town of Asha, Chelyabinsk region.	PJSC Asha Metallurgical Plant, Asha, Chelyabinsk region.	2024
Evolving the process parameter control system.	OJSC Severstal-metiz, Cherepovets.	2024
Upgrading of automated speed rate control system and gage and tension control systems for mill 1700 at PAO «Severstal», Cherepovets.	PAO «Severstal», Cherepovets.	2024
Upgrading of control system for electric drives of exit side of continuous-pickling line in central control unit.	PJSC «NLMK», Lipetsk.	2023
Upgrading of main drive of section mill 710.	LLC «Motovilikha Civil Machine Building», Perm.	2023
Upgrading of electric drives of a cooling bench.	PJSC «Sinarsky Pipe Plant», Kamensk-Uralsky, Sverdlovsk region.	2023
Updating of electrical equipment and automated control systems for mill 150.	AO «Beloretsk steel mill», Beloretsk, the Republic of Bashkortostan.	2023
AO «ASC» has finished the project works on upgrading the electrical equipment and automated process control system for rolling mill 1200-2 in cold-rolling shop at LLC «VIZ-Stal».	LLC «VIZ-Stal», Ekaterinburg.	2023
Excitation control system for main motor of mill 2000 roughing stand.	PJSC «VSMPO-AVISMA Corporation», Verkhnyaya Salda, Sverdlovsk region.	2023

Commissioning of PIMS system.	OJSC «Seversky tube works», Polevskoy, Sverdlovsk region.	2023
Implementation of PIMS system.	JSC «Volzhsky tube works», Volzhsky, Volgograd region.	2023
Implementation of «3D stock» system for a pipe storage area	PAO «Severstal», Cherepovets.	2023
Implementing the «3D stock» system.	PAO «Severstal», Cherepovets.	2023
Upgrading of main drive for two-high reversing stand 1000 of mill 700.	JSC «Oskolsky electrometallurgical works», Stary Oskol, Belgorod region.	2022
Upgrading of electric drives for the first intermediate train (mill stands No.No.S12-S17) based on equipment designed and manufactured by LLC R&D «Saint-Petersburg Electrotechnical Company».	AO «Beloretsk integrated iron and steel works», Beloretsk, Bashkortostan.	2022
Package of works on creation of data storage, analysis and output to steel-rolling shop No.2 system.	OJSC «Severstal – Metiz», Cherepovets.	2022
Development of software for «Rossiyanka» blast furnace tuyeres video control system.	PJSC «NLMK», Lipetsk.	2022
Design, delivery, erection and adjustment of DC converters for drives of rolling mill 950 in Rail and Section Shop.	JSC «EVRAZ NTMK», Nizhny Tagil, Sverdlovsk region.	2022
Package of works on creation of data collection, storage, analysis and output to control-and-measuring shop system.	OJSC «Severstal – Metiz», Cherepovets.	2022
Automated metal tracking on metal cutting units and upgrading of cut-to-length system in metal working center No 2.	PJSC «Severstal», Cherepovets.	2022
Production and delivery of equipment for mill 300 upgrade. Bar section bake hardening area.	JPA «Uzbek smeltery», Bekabad, Uzbekistan.	2022
Retrofitting of control systems for hydraulic screw-down mechanisms of 5-stand mill «1700».	PAO «Severstal», Cherepovets.	2022
Generation of the second level of automation for the plants of cold-rolling department.	LLC «VIZ-Stal», Ekaterinburg.	2022
Modernization of furnace atmosphere monitoring and control system for recrystallization annealing plant No.1 and recrystallization annealing plant No.2.	LLC «VIZ-Stal», Ekaterinburg.	2022
Modernization of control system for slitting unit No.12 and slitting unit No.8.	LLC «VIZ-Stal», Ekaterinburg.	2022
Modernization of automation system and replacement of capacity controllers of heaters for decarburizing annealing plant 1A.	LLC «VIZ-Stal», Ekaterinburg.	2022
Modernization up-dating of pipe facing line EMAG.	PJSC «Sinara pipe plant», Kamensk-Uralsky, Sverdlovsk region.	2022
Upgrading of automation system and replacing of power regulators for heaters of recrystallization annealing plant No.1.	LLC «VIZ-Stal», Ekaterinburg.	2022
Upgrading of control system for mill stand L17 of finishing mill train "SIMAC".	JSC «NLMK-Ural», Nizhnie Sergi, Sverdlovsk region.	2022
Modernization of control systems for electric drives and technology automatic automation of the section of the continuous billet mill.	JSC "Oskol Electrometallurgical combine", Stary Oskol, Belgorod region.	2021
Works for service maintenance of process control systems and electric drives of welded pipe production mill 355.	LLC «Irbis pipe plant», Irbis, Sverdlovsk region.	2021
Addressed product accounting system «3D warehouse».	PJSC «Severstal», Cherepovets.	2021
Retrofitting and upgrading of hydraulic press complete with a stricking station and protective cap.	PJSC «Sinara pipe plant», Kamensk-Uralsky, Sverdlovsk region.	2021
Modernization of electric drives and control systems the wheel machine.	PJSC «Seversky pipe works», Polevskoy, Sverdlovsk region.	2021
Modernization of electric drives and control system of the sizing mill.	PJSC «Seversky pipe works», Polevskoy, Sverdlovsk region.	2021

Modification of the control controller software within the framework of work on the replacement of frequency converters of an electric bridge casting crane with a capacity of 225 / 80t CCM.	PJSC "Seversky pipe works", Polevskoy, Sverdlovsk region.	2021
Modernization of the control system of the continuous pickling unit.	OJSC "Novolipetsk steel mill", Lipetsk.	2021
System of address accounting of products "3D warehouse".	OJSC Severstal - Metiz, Cherepovets.	2021
Process parameters control system (dispatching system).	OJSC Severstal - Metiz, Cherepovets.	2021
Reconstruction of the technological process control system catfish radial 2-stream UNRS No. 5.	PJSC Severstal, Cherepovets.	2020
Modernization of the control system of the finishing group of stands SIMAC.	NLMK-Ural JSC, Nizhnie Sergi town, Sverdlovsk region.	2020
Commissioning of electric drives and process control systems for a section rolling mill at the Daehan Sinpyeong plant.	Busan, South Korea	2020
Commissioning works on electric drives and automated process control system of the section mill.	El Marakby Steel, Giza, Egypt	2020
Commissioning works on electric drives and process control system of the section mill of the POSCO steel company.	Metallurgical plant of the Posco company, Pohang, South Korea.	2020
Commissioning works on electric drives and APCS of the section mill of the casting and rolling complex.	Moon Iron & Steel Company (Misco), Sohar, Oman.	2020
Modernization of electric drives of the reduction mill.	PJSC "Sinarsky Pipe Plant", Kamensk-Uralsky, Sverdlovsk Region.	2020
Modernization of the coupling-cutting line.	PJSC "Sinarsky Pipe Plant", Kamensk-Uralsky, Sverdlovsk region.	2020
Modernization of the control system of the hydrogen station.	PJSC "Novolipetsk Metallurgical Plant", Lipetsk.	2020
Pipe heat treatment complex.	PJSC "Seversky Pipe Plant", Polevskoy, Sverdlovsk region.	2020
Modernization of DC converters of the main drives of the pre-finishing group of stands GUK2 and VK2 of the universal beam mill of the wide-flange beams rolling shop.	EVRAZ NTMK JSC, Nizhny Tagil, Sverdlovsk Region.	2020
Modernization of the APR-6 control system in the cold rolling shop.	LLC "VIZ-Steel", Yekaterinburg.	2020
Light and sound signaling of the UGM-RBC highway crossing.	JSC "EVRAZ NTMK", Nizhny Tagil, Sverdlovsk region	2020
Design, supply and commissioning of equipment for a new high-pressure system for roll cleaning for PJSC Seversteel, Cherepovets.	SMS Group GmbH, Germany.	2019
Light and sound signaling of the UGM-RBC highway crossing.	EVRAZ NTMK JSC, Nizhny Tagil, Sverdlovsk region.	2019
The software has been developed and a large diameter pipe handling system has been put into operation.	LSAW Al Gharbia Pipe Company (AGPC), Abu Dhabi, United Arab Emirates.	2019
Modernization of the production line for the production of EMAG couplings.	PJSC "Sinarsky Pipe Plant", Kamensk-Uralsky, Sverdlovsk region.	2019
Software for automation of large diameter welded pipe handling system.	Corinth Pipe Works (CPW), city Thisvi, Greece.	2019
Commissioning of electric drives at the reconstructed section of the light section hot rolling mill.	Daehan Sinpyeong rolling mill, Busan, South Korea.	2019
Design, supply and commissioning of electrical equipment for the drive of the push device for mill "1500" LPC-2.	PJSC "Ashinskiy Metallurgical Plant", Asha, Chelyabinsk region.	2019
Replacement and commissioning of the billet transport control controller and auxiliary systems at the DUO stand section of mill 1000.	JSC "Oskol Electrometallurgical combine", Stary Oskol, Belgorod region.	2019

Modernization of electrical equipment and process control system of mill 1200-1.	LLC "VIZ-Steel", Yekaterinburg.	2019
Automatic control system for hydraulic descaling from the strip.	PJSC "Magnitogorsk Metallurgical combine", Magnitogorsk, Chelyabinsk region.	2019
Development and delivery of software for RM1 mill.	PJSC "Tulachermet", Tula.	2019
Process control system for internal pipe polishing f. DELMET (Italy).	OOO "TMK-Inoks", Kamensk-Uralsky, Sverdlovsk region.	2019
Modernization of the production line for the production of EMAG couplings.	PJSC "Sinarsky Pipe Plant", Kamensk-Uralsky, Sverdlovsk region.	2019
Modernization of a 20-roll reversing cold mill rolling Sundwig 720.	PJSC "Ashinskiy Metallurgical Plant", Asha, Chelyabinsk region.	2019
Automation systems for the casting and section rolling complex.	PJSC "Tulachermet", Tula.	2019

NON-FERROUS METALLURGY

Electrical equipment and APCS for thermal cutting line in the shop No.16.	PAO VSMPO-AVISMA Corporation, Verkhnyaya Salda, the Sverdlovsk region.	2025
Updating of start-up system for pump-and-accumulator stations 21 and 37.	PAO VSMPO-AVISMA Corporation, Verkhnyaya Salda, the Sverdlovsk region.	2025
Upgrading of control system for cold-rolling mill QUARTO-250.	AO Kirov non-ferrous metal working plant, Kirov.	2025
Modernization of electrical equipment for continuous pickling line No.1, shop No.16.	VSMPO-AVISMA Corporation, Verkhnyaya Salda, the Sverdlovsk region.	2024
Development and adjustment of computer software and commissioning of control system equipment for mill FM4.	ZAO Rusal Armenal (Closed Joint Stock Company), Armenia, the city of Erevan.	2024
Electrical equipment upgrade for slitting machine «SEPAMAT-S».	AO Ural foil (Joint Stock Company), Mikhailovsk, the Sverdlovsk region.	2024
Integrated modification of «Quarto – A1» cold-strip mill.	JSC Ural foil, Mikhailovsk, Sverdlovsk region.	2024
Upgrading of HMI system and ACS Level 2 of furnace by EBNER.	JSC Alum Metallurg Rus, Belaya Kalitva, Rostov region.	2024
Upgrade of control system for laminating machine.	JSC RUSAL SAYANAL, Sayanogorsk, the Republic of Khakassia.	2024
Control system upgrade for cold rolling mill QUARTO-250 No.508.	AO «Kirov non-ferrous metal working plant», Kirov.	2023
Replacement of control system for aluminum foil finishing mill FM-4.	CJSC «RUSAL-ARMENAL», Erevan.	2023
Upgrade of control system for double-side varnish coating machine.	AO «RUSAL SAYANAL», Sayanogorsk, the Republic of Khakassia.	2021
Replacement of coilers of mill 1200.	VSMPO-AVISMA Corporation, V. Salda, Sverdlovsk region.	2021
Manufacture and supply of electrical equipment for press 170, workshop 21.	PJSC "Corporation VSMPO-AVISMA", Verkhnyaya Salda, Sverdlovsk region.	2021
Gas cleaning process control systems. Commissioning works.	CJSC "Boguchansky Aluminum Plant" Krasnoyarsk region.	2020
Modernization of control systems for electric drives of a foil rolling mill.	JSC RUSAL-SAYANAL, Sayanogorsk, Republic of Khakassia.	2020
Replacement of the control system for the SUG melting furnace.	LLC "SEAL and K", Berezovsky, Monetny settlement, Sverdlovsk region.	2019
Reconstruction of the pumping and accumulator station of shop No. 630. (First step).	PJSC "Corporation VSMPO-AVISMA", Verkhnyaya Salda, Sverdlovsk region.	2019

Installation of a system of optical rulers on pipe-cutting machines 91H25.	LLC "Drill pipes", Kamensk-Uralsky, Sverdlovsk region.	2019
Replacement of electric drives for cold rolling mill 2000.	PJSC "VSMPO-AVISMA Corporation", Verkhnyaya Salda, Sverdlovsk region.	2019

POWER ENGINEERING

Local automatic control system for mazut-handling equipment under the project known as «Waste water disposal system for mazut-handling equipment».	PAO Enel-Russia (Public Joint Stock Company), a subsidiary of Sredneuralsk GRES power plant, the Sverdlovsk region.	2024
Production and delivery of equipment.	PAO Enel-Russia (Public Joint Stock Company), a subsidiary of Sredneuralsk GRES power plant, the Sverdlovsk region.	2024
Package of design, erection supervision and commissioning works for equipment of automated control system of denitrification units No. 6, 7, 8 and 9.	LLC «Nizhnekamsk heat power plant», Nizhnekamsk, the republic of Tatarstan.	2021
Reconstruction of car dumper 2B.	PJSC «Enel-Russia», «Sredneuralskaya GRES» affiliate, Sverdlovsk region.	2019
Manufacturing of low-voltage control cabinets for electrostatic precipitators, prefabricated control panels for 0.4 kV drives, automation cabinets for TPP-2 in Astana.	JSC «ALSTOM Power Stavan», Moscow city.	2019

TRANSPORT

MUNICIPAL ELECTRIC TRANSPORT

Electrical equipment for tram car 71-639 «Castor».	JSC Ust-Katav car-building plant, Ust-Katav, the Chelyabinsk region.	2025
«Delivery of 10 sets of PAK-UTV623.	AO Ust-Katav railway car building works, Ust-Katav, the Chelyabinsk region.	2024
Delivery of 38 packages of PAK-UTV623.	AO Ust-Katav railway car building works, Ust-Katav, the Chelyabinsk region.	2024
Electric traction drive for trams.	JSC Ust-Katav car-building plant, Ust-Katav, Chelyabinsk region.	2024
Electric traction drive for trams.	JSC «Ust-Katav railway car building works», Ust-Katav, the Chelyabinsk region.	2023
In November 2022 the Ust-Katav car-building plant completed delivery of 30 pieces of low-floor tram cars model 71-628-01 that include the traction and support electrical equipment designed and manufactured by CJSC «ASC» for LLC «ChelyabGET».	AO «Ust-Katav car-building plant», Ust-Katav, Chelyabinsk region.	2022
Upgrading of railroad switches No.46, 47, changing of electric drives for drives of other type, updating of control system.	JSC «Vostochny port», Nakhodka, the settlement of Vrangeli, Primorski Krai.	2021
Upgrading of control cabinet of axle counting system +CCO2 as part of updating the axle counting system of microprocessor-based interlocking system.	JSC «Vostochny port», Nakhodka, the settlement of Vrangeli, Primorski Krai.	2021
Delivery of 6 sets of power supply system for a traction drive and auxiliary systems of tram car 71-623-04 and display panels.	JSC «Ust-Katav railway car building works», Ust-Katav, Chelyabinsk region.	2021
Delivery of 11 equipment sets for car 71-623-04 16.06.2021.	JSC «Ust-Katav railway car building works», Ust-Katav, Chelyabinsk region.	2021

Low floor tram model 71-418.	Uraltransmash JSC, Yekaterinburg city.	2020
Supply of a set of electrical equipment for tram car 71-411. The car was accepted by MVK for serial production.	Uraltransmash JSC, Yekaterinburg city.	2019
Modernization of traction converters of 71-405 cars. Supply of equipment, commissioning of the first two cars.	MP "TTU", Samara.	2019
Supply and commissioning of equipment for 30 cars 71-623-04, intended for MUP "KTTU", Krasnodar.	JSC "Ust-Katavsky Carriage Works, Ust-Katav city, Chelyabinsk region.	2019
Modernization of five tram cars 71-403.	EMUP "Gortrans", Yekaterinburg city.	2019
Projects of sets of electrical equipment for tram cars 71-415 and 71-418, Delivery of prototypes.	Uraltransmash JSC, Yekaterinburg city.	2019
Supply of equipment for cars 71-407 and 71-409.	Uraltransmash JSC, Yekaterinburg city.	2019

PICK-AND-PLACE MACHINES

Troubleshooting the ACS6000 converter of the Air Force trunk lifting cage.	Udachny mine of Alrosa, Udachny, Republic of Sakha (Yakutia)	2023
Installation and commissioning of the electric drive of a six-cable shaft lifting unit with a friction pulley Sh-5x6.	EuroChem-VolgaKaliy LLC, Volgograd region, Gremyachinsky GOK.	2023
Stacker upgrading.	JSC «Vostochny port», the town of Nakhodka, the settlement of Vranghel, the Primorye.	2023
Construction of a new specialized port at the Far East seaside of the Russian Federation. Auxiliary equipment cabinets.	LLC «Sea Port Sukhodol», Primorski Krai, Shkotovo region.	2022
Construction of a new specialized port at the Far East seaside of the Russian Federation. UPS cabinets.	LLC «Sea Port Sukhodol», Primorski Krai, Shkotovo region.	2022
Upgrading of equipment for stacker No.1 transfer electric drive and PLC S-7 control system for transfer electric drive.	AO «Vostochny port», Nakhodka, the settlement of Vranghel, Primorski Krai.	2022
Dedusting units No.3, 4, 5, 6. Design and survey works, software update.	AO «Vostochny port», Nakhodka, the settlement of Vranghel, Primorski Krai.	2022
Development of working documentation for "EM" kits (power electrical equipment) for conveyor lines of I and II stages of construction the property.	Sukhodol Sea Port LLC, Primorski Krai.	2021
Communication system with warehouse and ship-loading machines for WiFi in connection with the "Loopback" mode at the facility: 3rd stage among the coal-loading complex in the port of Vostochny.	JSC "Vostochny Port" Nakhodka, pos. Vranghel, Primorski Territory.	2021
Modification of the software of the control controller as part of the work on the replacement of frequency converters of the electric bridge casting crane 225 / 80t CCM.	PJSC Seversky Pipe Plant, Polevskoy, Sverdlovsk region.	2020
Automated process control system of shiploader # 1.	JSC "Vostochny Port", Nakhodka, pos. Vranghel, Primorski Territory.	2020
Dust collectors control system for car dumpers.	JSC "Vostochny Port", Nakhodka, pos. Vranghel, Primorski Territory.	2020
Reconstruction of car dumper 2B.	OJSC Enel OGC-5, Reftinskaya GRES, Reftinsky, Sverdlovsk region.	2019
Supply of equipment for reclaimers No. 1 and No. 2.	JSC "Vostochny Port", Nakhodka, pos. Vranghel, Primorski Territory.	2019

Supply of equipment for linking the ACS of car dumpers of the 3rd queues with microprocessor-based centralization "MPTs-ASK".	JSC "Vostochny Port", Nakhodka, pos. Wrangel, Primorsky Territory.	2019
Modernization of electrical equipment of the mine hoisting machine CR-6.3 × 4.2 / 0.6.	Donskoy Ore Mining and Processing Plant - a branch of TNK KAZKHROM JSC, Khromtau, Republic of Kazakhstan.	2019
Replacement and adjustment of the frequency converter of the drive of the car buto-tipper PPK-3.	JSC "Vostochny Port", Nakhodka, pos. Wrangel, Primorsky Territory.	2019

INDUSTRIAL RAILWAY STATION AUTOMATION

Signals and interlocking systems, replacement of remote control system.	AO Eastern port (Joint Stock Company), Nakhodka, the Primorsky Territory.	2025
MIS-ASC (Microcomputer-based Interlocking System by ASC) for Terminal-2 station due to introduction of the second technological connection as part of the project on "AO Daltransugol transshipment capacity expansion up to 40 million tons of coal per year".	AO Eastern port (Joint Stock Company), Nakhodka, the Primorsky Territory.	2025
Signals and interlocking system, replacement of remote control system for electric ejectors No.1, No.2, No.3, No.4 of car tipplers No.1, No. 2.	AO Eastern port (Joint Stock Company), Nakhodka, the Primorsky Territory.	2025
Microcomputer-based signals and interlocking subsystem for visual representation of quantity of semi-railcars delivered to dead-end tracks PPK-3 and T-3.	AO Eastern port (Joint Stock Company), Nakhodka, the Primorsky Territory.	2025
Creation of infrastructure for installation of a jib ripper assembly in the territory of Port Transshipment Complex 3.	AO Eastern port (Joint Stock Company), Nakhodka, the settlement of Vrangal, the Primorsky Territory.	2024
Automated Inventory Number Tracking System for the "Noviy" ("New") Car Fleet.	AO Eastern port (Joint Stock Company), Nakhodka, the settlement of Vrangal, the Primorsky Territory.	2024
Development of detail design documentation for the project known as «Automated Inventory Number Tracking System for the "Noviy" ("New") Car Fleet».	AO Eastern port (Joint Stock Company), Nakhodka, the settlement of Vrangal, the Primorsky Territory.	2024
Development of detail design documentation (APCS) for implementing the interlocking of point operating gears No. 49, 51, 53, 55, 57, 42, 40, 38a, 36 of "Ugolnaya" ("Coaling") station, as well as their lighting and pneumatic cleaning, along with integration of the designed devices into the microprocessor-based switches-and-signals interlocking system of "Ugolnaya" ("Coaling") station.	PAO MMK (Public Joint Stock Company), Magnitogorsk, the Chelyabinsk region.	2024
Delivery of the microprocessor-based signals and interlocking subsystem designed for visualizing the quantity of open cars supplied to dead-end tracks of Port Transshipment Complex-3 and T-3.	AO Eastern port (Joint Stock Company), Nakhodka, the settlement of Vrangal, the Primorsky Territory.	2024
Design, delivery, erection supervision, start-up and adjustment of a pneumatic wagon retarder.	ООО ОТЕКО-Portservice (Limited Liability Company).	2024
Modernization of wagon unloading machines.	JSC «Vostochny port», Nakhodka, the settlement of Vrangal, Primorski Krai.	2022
The system of automatic monitoring of wagon location at railway tracks of "Novy" railway yard.	JSC «Vostochny port», Nakhodka, the settlement of Vrangal, Primorski Krai.	2022
The system of car number identification at weighing point before wagon dumping machines No.1, 2, 3, 4.	SC «Vostochny port», Nakhodka, the settlement of Vrangal, Primorski Krai.	2022
Developing documentation, delivery of equipment for automatic level crossing safety installation system "ALCSI-ASC".	LLC «Krasnoturyinsk-Polimetal», Krasnoturyinsk, Sverdlovsk region.	2022
Construction of a new specialized port on Dalnevo-waste coast of the Russian Federation. Auxiliary electrical equipment cabinets dovaniya.	LLC Sukhodol Seaport, Primorsky Territory, Shkotovsky district.	2022

Construction of a new specialized port on Dalnevo-waste coast of the Russian Federation. UPS cabinets.	LLC Sukhodol Seaport, Primorsky Territory, Shkotovsky district.	2022
Modernization of the equipment of the electric drive of movement stacker No. 1 and the control system for the electric drive of the movable PLC S-7, design and survey activities.	AO «Vostochny port», Nakhodka, the settlement of Vrangeli, Primorski Krai.	2022
Supply of 120 kVA UPS cabinets for control systems of VO No. 1 and two UPS for the process control system of the central control room of the coal handling complex.	AO «Vostochny port», Nakhodka, the settlement of Vrangeli, Primorski Krai.	2022
Uninterruptible power supply 120 kVA for control systems wagon dumper No. 1 PPK-3	AO «Vostochny port», Nakhodka, the settlement of Vrangeli, Primorski Krai.	2022
Modernization of equipment monitoring and control of the load elements of the electric motors of the rollover drive VO No. 1, VO No. 2, design and survey activities.	AO «Vostochny port», Nakhodka, the settlement of Vrangeli, Primorski Krai.	2022
Uninterruptible power supply 120 kVA for control systems wagon dumper No. 1 PPK-3, design and survey activities.	AO «Vostochny port», Nakhodka, Primorski Krai.	2022
Updating of uninterruptible power supplies, design and survey activities.	AO «Vostochny port», Nakhodka, the settlement of Vrangeli, Primorski Krai.	2022
Dedusting units No.3, 4, 5, 6. Design and survey works, software update.	AO «Vostochny port», Nakhodka, the settlement of Vrangeli, Primorski Krai.	2022
Modernization of the control cabinet of the axle counting system + CC02 for modernization of the system for counting the axles of the MPTs SZB.	JSC "Vostochny Port", Nakhodka, pos. Vrangeli, Primorski Krai.	2021
Modernization of turnouts No. 46.47, replacement of electrical drives to a different type, revision of the control system.	JSC "Vostochny Port", Nakhodka, pos. Vrangeli, Primorski Krai.	2021
Power electrical equipment for car defrosters devices.	LLC "Sea Port Sukhodol", Primorski Krai.	2021
Modernization of automatic crossing signaling.	OJSC Uralskaya Foil, Mikhailovsk, Sverdlovsk region.	2020
Organization of new controlled areas.	JSC "Rosterminalugol", Kingisepp, Leningrad region.	2020
Light and sound signaling of the UGM-RBC highway crossing.	EVRAZ NTMK JSC, Nizhny Tagil, Sverdlovsk region.	2019
Design and survey work for the modernization of the system collection and transmission of information CPU-CRP.	JSC "Vostochny Port", Nakhodka, pos. Vrangeli, Primorski Krai.	2019
Supply of equipment for the modernization of the signaling system of the Account axles "MPTs-ASK".	JSC "Vostochny Port", Nakhodka, pos. Vrangeli, Primorski Krai.	2019
Supply of equipment for reclaimers No. 1 and No. 2.	JSC "Vostochny Port", Nakhodka, pos. Vrangeli, Primorski Krai.	2019
Manufacturing and supply of aircraft control cabinets for conveyors 3rd stage of PPK.	JSC "Vostochny Port", Nakhodka, pos. Vrangeli, Primorski Krai.	2019
Supply of equipment for linking the ACS of car dumpers of the 3rd queues with microprocessor-based centralization "MPTs-ASK".	JSC "Vostochny Port", Nakhodka, pos. Vrangeli, Primorski Krai.	2019
Design and research work on the ACS of vibration control conveyors of the 3rd stage PPK-3 of the Vostochny port.	JSC "Vostochny Port", Nakhodka, pos. Vrangeli, Primorski Krai.	2019
Optical reading system of carriage numbers SOSNV 3rd the queue of the PPK-3 coal loading complex.	JSC "Vostochny Port", Nakhodka, pos. Vrangeli, Primorski Krai.	2019
Control and dimensional devices of the KGU of the 3rd stage of the PPK-3 coal-loading complex. Design.	JSC "Vostochny Port", Nakhodka, pos. Vrangeli, Primorski Krai.	2019
Replacement, adjustment of the frequency converter of the PPK-3 car dumper drive performed as part of service work for the maintenance of the equipment of the coal loading complex.	JSC "Vostochny Port", Nakhodka, pos. Vrangeli, Primorski Krai.	2019

Supply of electrical equipment and control systems for JSC Vostochny Port, Nakhodka.	LLC UGMK-Telecom, Verkhnyaya Pyshma, Sverdlovsk region.	2019
Complex of design and research works on local ACS for JSC "Vostochny Port".	LLC UGMK-Telecom, Verkhnyaya Pyshma, Sverdlovsk region.	2019

CONVEYING AND SORTING LINES

Application software for conveyor equipment.	EuroChem TerminalCoal LLC, the Ust-Luga port, the Leningrad region, the Kingisepp district.	2025
APCS for wagon unloading stations No.1 and No.2.	EuroChem TerminalCoal LLC, the Ust-Luga port, the Leningrad region, the Kingisepp district.	2025
Service activities for APCS of the coal transshipment complex.	AO Eastern port (Joint Stock company), Nakhodka, the Primorsky Territory.	2025
Replacement of a standby UPS.	AO Eastern port (Joint Stock company), Nakhodka, the Primorsky Territory.	2025
Modernization of travel drive and process control system for stacker No.1.	AO Eastern port (Joint Stock Company), Nakhodka, the settlement of Vrangeli, the Primorsky Territory.	2024
Modernization of electric drive of boom conveyor, travel drive, control system PLC SIMATIC S7.	AO Eastern port (Joint Stock Company), Nakhodka, the settlement of Vrangeli, the Primorsky Territory.	2024
Work package for application software development, pre-commissioning and commissioning of software mentioned to be applied as part of process control system at «Coal transshipment complex «Lavna».	OOO Commercial Seaport Lavna (Limited Liability Company), Murmansk.	2024
Development of working documentation and software for automated control system to be applied at Eurochem port.	OOO Eurochem Terminal Ust-Luga (Limited Liability Company), the Leningrad region, the Kingisepp district, industrial zone «Phosphorite».	2024
Automated control system for vibration control and temperature control of conveyor drum bearings.	AO «Vostochny port», Nakhodka, Primorye Territory.	2024
Automated process control system (APCS) for conveyor equipment.	LLC «EuroChem Coal Terminal», Ust-Luga port, Leningrad region.	2024
Automation of railway transport is the right path forward to developing your business.	LLC "Kimkano-Sutarsky Mining and Processing Plant".	2024
Commissioning of rotary mechanism for car tippler.	LLC «Sea Port «Sukhodol», Primorye Territory.	2023
APCS for vibration and temperature control of drive pulley bearings of coal terminal conveyors.	JSC «Vostochny port», Nakhodka, the settlement of Vrangeli, Primorye Territory.	2023
Development and adjustment of software for stacker-reclaimers and ship loading machines.	LLC «Sea Port «Sukhodol», Primorsky Territory.	2023
Commissioning of uninterruptible power supplies.	JSC «Vostochny port», Nakhodka, Primorye Territory.	2023
Modernization of uninterruptible power supplies, design and survey activities.	AO «Vostochny port», Nakhodka, the settlement of Vrangeli, Primorski Krai.	2022
Uninterruptible power supply 120 kVA for control systems wagon dumper No. 1 PPK-3, design and survey activities.	AO «Vostochny port», Nakhodka, the settlement of Vrangeli, Primorski Krai.	2022
Control of infrared heating of the walls of carriages with coal in car defrosting devices.	LLC "KOCH Solutions", Moscow city.	2021
Supply of power electrical equipment for conveyor lines niy.	Sukhodol Sea Port LLC, Primorsky Krai.	2021
Maintenance of electrical equipment and ACS systems PPK-3.	JSC "Vostochny Port" Nakhodka, pos. Vrangeli, Primorsky Territory.	2021

Development of working documentation for "EM" kits for conveyor lines of I and II stages of construction the property.	Sukhodol Sea Port LLC, Primorsky Krai.	2021
System for generating reports on the functioning of the ACS 3rd the queue of the coal loading complex in the port of Vostochny.	JSC "Vostochny Port" Nakhodka, pos. Wrangel, Primorsky Territory.	2021
Communication system with warehouse and ship-loading machines for WiFi in connection with the "Loopback" mode at the facility: 3rd stage among the coal-loading complex in the port of Vostochny.	JSC "Vostochny Port" Nakhodka, pos. Wrangel, Primorsky Territory.	2021
Designing of an automated control system for vibration control and temperature of bearings of conveyor drums PPK-3.	JSC "Vostochny Port", Nakhodka, pos. Wrangel, Primorsky Territory.	2020
Reconstruction of equipment for cable drum SPM No. 1.	JSC "Vostochny Port", Nakhodka, pos. Wrangel, Primorsky Territory.	2020
ACS of dust collectors of the 3rd stage of the PPK-3 complex at the facility: "3rd stage of the coal loading complex".	JSC "Vostochny Port", Nakhodka, pos. Wrangel, Primorsky Territory.	2020
Automated process control system of shiploader # 1.	JSC "Vostochny Port", Nakhodka, pos. Wrangel, Primorsky Territory.	2020
Dust collectors control system for car dumpers.	JSC "Vostochny Port", Nakhodka, pos. Wrangel, Primorsky Territory.	2020
Design of electrical equipment for conveyor lines.	LLC "Sea Port Sukhodol", Primorsky Krai.	2020
Manufacturing and supply of aircraft control cabinets for Conveyors 3rd stage of PPK.	JSC "Vostochny Port", Nakhodka, pos. Wrangel, Primorsky Territory.	2019
Design and research work on the ACS of vibration control conveyors of the 3rd stage PPK-3 of the Vostochny port.	JSC "Vostochny Port", Nakhodka, pos. Wrangel, Primorsky Territory.	2019
Control and dimensional devices of the KGU of the 3rd stage of the PPK-3 coal-loading complex. Design..	JSC "Vostochny Port", Nakhodka, pos. Wrangel, Primorsky Territory.	2019
Supply of electrical equipment and control systems for JSC "Vostochny Port", Nakhodka.	LLC UGMK-Telecom, Verkhnyaya Pyshma, Sverdlovsk region.	2019

MINERAL RESOURCE INDUSTRY

Troubleshooting the ACS6000 converter of the Air Force trunk lifting cage.	Udachny mine of AK Alrosa, Udachny, Republic of Sakha (Yakutia).	2023
Installation and commissioning of the electric drive of a six-cable shaft lifting unit with a friction pulley Sh-5x6.	Gremyachinsky GOK, LLC EuroChem-VolgaKaliy, Volgograd region.	2023
Delivery of two sets of frequency converters for self-driving wagons.	JSC Kopeysky Machine-building Plant, Kopeysk, Chelyabinsk region.	2022
Updating of uninterruptible power supplies, design and survey activities.	AO «Vostochny port», Nakhodka, the settlement of Vrangeli, Primorski Krai.	2022
Control system for technological cleaning equipment mine wastewater.	Mine "Uvalnaya" JSC "UK Siberian", Novokuznetsk Kemerovo region.	2020
Designing of an automated control system for vibration control and temperature of bearings of conveyor drums PPK-3.	JSC "Vostochny Port", Nakhodka, pos. Wrangel, Primorsky Territory.	2020
Commissioning of the ASC6000 converter.	Zangezur mine, Kajaran city, Armenia.	2019
Supply of power electrical equipment, ACS equipment and instrumentation equipment.	LLC "Novotroitsk soda plant", Novotroitsk, Orenburg region	2019
Modernization of electrical equipment of the mine hoisting machine CR-6.3 × 4.2 / 0.6.	Donskoy Ore Mining and Processing Plant - a branch of TNK KAZKHROM JSC, Khromtau, Republic of Kazakhstan	2019

OIL AND GAS

Providing maintenance services for frequency converters.	OOO Novatek-Purovsky Condensate Processing Plant (Limited Liability Company), Tarko-Sale, the Yamal-Nenets Autonomous District.	2025
Production and delivery of VFD block-box and MCC block-box for drilling rig БУ-AR-247-5000/320.	OOO Bentec (Limited Liability Company), Tyumen.	2025
Manufacturing and commissioning of three sets of control containers for a 200 t derrick drawwork unit.	OOO RN-Burenie (Limited Liability Company), Ufi subsidiary, the Republic of Bashkortostan.	2025
Provision of maintenance services for frequency converters.	OOO Novatek-Purovsky Condensate Processing Plant (Limited Liability Company), Tarko-Sale, the Yamal-Nenets Autonomous District.	2024
Production and delivery of a derrick-raising arrangement.	AO Siberian service company (Joint Stock Company) Nefteyugansk subsidiary, Nefteyugansk, Khanty-Mansiysk Autonomous District-YUGRA.	2024
Maintenance of frequency converters.	Novatek-Purovsky ZPK LLC, Tarko-Sale, Yamalo-Nenets Autonomous District.	2023
The current repair of the CHP produced by ABB at the Neryungrinsky, Lensky and Irkutsk RNU facilities.	Transneft Vostok LLC, Bratsk, Irkutsk region.	2022
Maintenance of frequency converters.	Novatek-Purovsky ZPK LLC, Tarko-Sale, Yamalo-Nenets Autonomous District.	2022
Drilling rig БУ F-400/3DX-Y upgrading.	LLC «Oren-Oil», Orenburg.	2022
Automated drill pump telemetering system.	CJSC «Automated systems and complexes», Ekaterinburg.	2022
Automated diesel oil consumption monitoring system.	CJSC «Siberian service company», Moscow.	2022
Automated production warehouse control system, Beryozovsky demonstration plant.	CJSC «Automated systems and complexes», Ekaterinburg.	2022
Automated drilling efficiency analysis system.	CJSC «Siberian service company», Moscow.	2022
Production and delivery of derrick BMA-45-225, derrick raising device УПБ-BMA-45-225.	LLC «Nova Energy services», Tarko-Sale, the Yamal-Nenets Autonomous District.	2022
Works for technical maintenance of four frequency converters.	LLC «Novatek- Purovsky CPP», Tarko-Sale, the Yamal-Nenets Autonomous District	2021
Maintenance activities for five frequency converters.	LLC «NOVATEK-PUROVSKY CPP», Tarko-Sale, the Yamal-Nenets Autonomous District	2021
Reconditioning and upgrading of VFD container for pumping unit and mud handling system control.	JSC «Siberian service company», Nefteyugansk subsidiary.	2021
Overhaul of variable frequency drives at the facilities of Transneft-Vostok LLC.	LLC "Transneft-Vostok", Bratsk, Irkutsk region.	2020
Supply of electrical equipment for drilling shelters.	LLC Naftagaz-Drilling, Noyabrsk, YaNAO.	2020
Driller console supply.	LLC Naftagaz-Drilling, Noyabrsk, YaNAO.	2020
Supply of electrical equipment for drilling rig shelters БУ 3000 EUK-1M.	LLC Naftagaz-Drilling, Noyabrsk, YaNAO.	2020
Commissioning of high-voltage devices for smooth starting asynchronous motors.	PJSC NK Rosneft, Moscow.	2020

16 Data as of March 2021 Drilling rig electric drives modernization BU 4500 EK BMCh.	Siberian Service Company JSC, Nefteyugansk branch.	2020
Pumping module with triplex mud pumps 3NB-1600 - 2 sets.	Siberian Service Company JSC, Moscow.	2019
Tower-winch block with a lifting capacity of 320.	LLC Gazprom Burenie, Moscow.	2019
Move mechanism for cluster drilling BU ZJ 50 DBS - 1 set.	LLC Gazprom Burenie, Moscow.	2019
Modernization of the BU 2500 DGU-M drilling rig - 2 sets.	LLC "Megion Geology", Megion, Khanty-Mansi Autonomous Okrug-Yugra.	2019
Modernization of the BU 2500 DGU-M drilling rig - 1 set.	LLC "Megion Geology", Megion, Khanty-Mansi Autonomous Okrug-Yugra.	2019
Modernization of converters ACS2000 - 3 pcs.	Tengiz field, Atyrau region, Republic of Kazakhstan.	2019

PRODUCTION OF CONSTRUCTION MATERIALS

Closed-loop cycle of clinker mills No.2 and No.3.	OOO SLK Cement (Limited Liability Company), Sukholozhskcement subsidiary, Sukhoi Log, the Sverdlovsk region.	2025
Completion of a set of works on upgrading the automation system for filters of jaw breakers, hammer crushers and clinker mills No.202 and No.203.	OOO SLK Cement (Limited Liability Company), Korkino, the Chelyabinsk region.	2024
Modernization of automation system for filters in jaw and hammer crushers, filters in cement mills No.202 and No.203.	OOO SLK Cement (Limited Liability Company), Korkino, the Chelyabinsk region.	2024
Automated control system for kiln plants of lime roasting area.	LLC «Ecolant», the town of Vyksa, LLC «Izvesta», Voronezh.	2024
Car tipplers upgrading.	JSC «Vostochny port», Nakhodka, Primorye Territory.	2023
Design work.	LLC «Ecolant», Vyksa, LLC «Izvestia», Voronezh.	2023
Design work.	LLC «Novotroitskiy soda plant» LLC «Izvesta», Voronezh.	2023
Detailed engineering.	LLC «Novotroitsk alkali-works» LLC «Izvesta», Voronezh.	2023
Basic engineering of the hardware and software complex.	LLC «Novotroitsk alkali-works» LLC «Izvesta», Voronezh.	2023
Reconstruction of cement grinding department, compressor room department, transformer substation. The town of Korkino, Chelyabinsk region.	LLC «Dyckerhoff Korkino Cement» (LLC «SLK Cement» Korkino affiliate), Korkino, Chelyabinsk region	2022
Activities for cement mill No.5. Installation of a closed grinding circuit.	OJSC «Sukholozhskcement», Sukhoi Log, Sverdlovsk region.	2022
Installation supervision and commissioning works on equipment and Process control system for limestone kiln.	LLC «Novotroitsk soda plant», Novotroitsk, Orenburg region.	2021
Supply of electrical equipment for the operation of high-voltage synchronous electric drives of mills No. 8, 9.	LLC «Starocementny Zavod», Sukhoi Log, Sverdlovskaya region.	2021
Development of design documentation for ACS, power equipment and power supply of the furnace department as part of the facility: "Line for the production of construction lime manufacturer - capacity of 200 t / day (68,000 t / year).	JSC «Silicate» plant for the production of silicate bricks, Gulkevichi, Krasnodar Territory.	2021
Modernization of equipment and software for lime kilns.	LLC «Izvest Sysert», Sysert city, Sverdlovsk region	2020

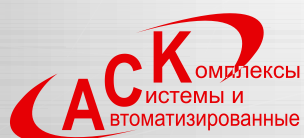
Limestone kiln.	LLC "Novotroitsk soda plant", Novotroitsk, Orenburg region	2020
Supply of ACS cabinets and instrumentation and control equipment for the furnace plant complex.	OOO "Dobryatinskoe karyeroupravlenie", pos. Dobryatino, Vladimir region.	2020
Power supply and process control system for the reconstruction of the cement production workshop, cement grinding department.	JSC "Sukholozhskcement" Sukhoi Log, Sverdlovsk region.	2019
Implementation of the automated control system for the technological process of transporting the components of the cement mill No. 6 (first stage).	JSC "Sukholozhskcement" Sukhoi Log, Sverdlovsk region.	2019

MACHINE BUILDING

Development of software for a magnetic particle testing device to be used for cast girders of motorway bridges MPIE-2500/900.01.	AO INTROTEST (Joint Stock Company), Ekaterinburg.	2024
Delivery of two frequency converter packages for shuttle cars.	JSC Kopeisk Machine-Building Plant, Kopeisk, Chelyabinsk region.	2022
Supply of spare parts for machine tools.	JSC "GDS Ural", Ekaterinburg.	2020
Supply of equipment for machine tools.	JSC "GDS Ural", Ekaterinburg.	2020
Control system for assembly line, control and folding caterpillar belts.	JSC "Omsktransmash", Omsk.	2020
Delivery of the operator's cabin for the machine tool.	JSC "GDS Ural", Ekaterinburg.	2019
Supply of 5 cabins for the GDS 13.	JSC "GDS Ural", Ekaterinburg.	2019

OTHERS

Development of technical documentation and software for APCS as part of the project on «Construction of Waelz zinc oxide manufacturing factory OOO ZINCUM (Limited Liability Company)».	OOO NPVP TOREX (Scientific Industrial and Innovation Enterprise), Ekaterinburg.	2024
«Distributed process control system».	OOO InvestKhimAgro (Limited Liability Company), Karabash, the Chelyabinsk region.	2024
Automation system for a new mineral fertilizers' production facility.	LLC «InvestKhimAgro», Karabash, Chelyabinsk region.	2023
Commissioning of the process control system of the SOLI-modular line Singulator.	Post office, Novosibirsk.	2021
Complex of design and research works on local ACS for JSC Vostochny Port.	LLC UGMK-Telecom, Verkhnyaya Pyshma, Sverdlovsk region.	2019



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