



# SPBEC

ENGINEERING  
FOR INDUSTRY

## SHORT LIST OF PROJECTS





SPBEC is a private engineering and EPC enterprise, providing innovative engineering solutions for customers in heavy industry. SPBEC's core business is engineering solutions design, installation and commissioning, with a specialization in industrial automation and electric power distribution.

## WHAT WE DO

### 1. Development and implementation of technical solutions in the following fields:

- ☐ Automated process control systems (APCS) and dispatching systems
- ☐ Automatic systems for the control and measurement of power consumption (ASCMPC)
- ☐ Industrial power supply systems
- ☐ Systems of the enterprise's own generating capacities
- ☐ Packaged units for the conversion and distribution of 220-110-35-10-6-0.4 kV power
- ☐ Automatic low- (0.4 or 0,63 kV) and high- (6 or 10 kV) voltage electric drive systems on the basis of modern frequency converters and a soft starter
- ☐ Excitation systems for synchronous motors and generators

### 2. Construction. Engineering investigation, as well as project adaptation in accordance with regulations and standards of the Russian Federation. General contract and construction, incl.:

- ☐ Purchase, delivery and storage of construction materials
- ☐ Provision of construction machines, power supply and communication
- ☐ Organization of on-site cooperation
- ☐ Construction and installation works
- ☐ Monitoring of regulation, budget and project date observation
- ☐ Arrangement of acceptance committee

### 3. In-house manufacture of electrical equipment (power distribution boards, electric drive cabinets, excitation systems, control panels, control cabinets and PLCs).

### 4. Supply and installation of processing equipment made by leading foreign manufacturers

### 5. Service maintenance, modernization and technical support

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# METALLURGY



ENTERPRISE	WORKS	CITY	YEAR
Ukrqiprometz for OJSC Vyksunski metallurgical works	Induction station of pipes local heat treatment of pipes, with transport mechanization. The work package is performed: Designing of mechanical system, induction plant, automation systems, manufacturing of mechanical system, induction plant, control systems, all the scope of building and installation works, commissioning works, development of technological modes.	Nizhny Novgorod region, Vyksa	2007 – 2008
Omutninsk metallurgical plant	Works of implementation of APCS of the object: Equipment with pumping units of water services of central dental pulp frequency-regulated drive and smooth descent. Building of APCS control system on the basis of Siemens controller. Dispatching of technical process using SCADA WINCC system (Siemens).	Kirov region	2007 – 2008
OJSC Severstal	Reconstruction of hydrogen station. Electrolyzer.	Cherepovets	2008
OJSC Severstal	Oxygen shop. Compressor station No.2. Soft start system of K-500, K-250 air compressors. System of control and diagnostics of compressors.	Cherepovets	2008
OJSC Severstal	Project works of reconstruction of complex of blast-furnace No.3.	Cherepovets	2008
JSC OMK-Steel	Performance of commissioning works of automation and instruments system of limekiln department, ferroalloy preparation and interplant conveyer transport of casting and rolling complex.	Nizhny Novgorod region, Vyksa	2008
JSC OMK-Steel	Manufacturing and supply of cabinets and panels of APCS, cabinets of power supply, lighting and power control, instruments equipment, cable production at casting and rolling complex mill train 2000.	Nizhny Novgorod region, Vyksa	2008
OJSC Severstal	Construction of reheating furnace No.5.	Cherepovets	2008 – 2009
OJSC Severstal	Reconstruction of 5-stands mill. Modernization of power sections of main drives and cooling system. First stage.	Cherepovets	2008 – 2009
OJSC Severstal	Modernization of main drive of broad-strip mill 5000.	St. Petersburg, Kolpino	2008 – 2009
OJSC Vyksunski metallurgical works	Work package of reconstruction of reheating furnaces No.1 & No.2 and hardening mills at section of thermal treatment of KPK KPP wheels.	Nizhny Novgorod region, Vyksa	2008 – 2009
Ukrqiprometz for OJSC Vyksunski metallurgical works	Widening of local communications network with exchange of MELPLAC-550 controllers of finishing floor of tube welding complex of small and medium diameter tubes TEWW-5 (design, supply of equipment, works of control cabinets modernization, installation and commissioning works).	Nizhny Novgorod region, Vyksa	2008 – 2009
OJSC Severstal	Automated control system of pump and accumulator station No. 1.	Cherepovets	2009
OJSC Severstal	Converter plant. Automated control system of emergency hoisting of tuyers.	Cherepovets	2009
OJSC Severstal	Control system of electric drives of steel teeming ladle cars of converter No.2.	Cherepovets	2010

ENTERPRISE	WORKS	CITY	YEAR
JSC Arselormittal Temirtau	Introduction of monitoring and control system of blast furnace No.3, No.4 flue gas exhausters.	Kazakhstan, Temirtau	2010
JSC Arselormittal Temirtau	APCS of charge preparation of agglomeration workshop jointly with SCHENCK PROCESS.	Kazakhstan, Temirtau	2010 – 2011
JSC Arselormittal Temirtau	Automation and power supply of blast furnace No.2 jointly with PAUL WURTH.	Kazakhstan, Temirtau	2010-2011
JSC Arselormittal Temirtau	System of digitalization and displaying of position of roughing mill mechanisms. Reconstruction of thyristor converters of roughing mill stand.	Kazakhstan, Temirtau	2010-2011
SMS SIEMAG AG	Converter production. Department of primary processing of slag No.1.Reconstruction of department of primary processing of slag No.1. Soft start devices of frequency-regulated drive.	Kazakhstan, Temirtau	2011
OJSC Severstal	Hardware-software complex of APCS Final adjustments of ladle metallurgy facility 1-3.	Cherepovets	2012
OJSC Severstal	Reconstruction of electric equipment of ladle metallurgy facility 1-3.	Cherepovets	2012
OJSC Severstal	Workshop of electric steel melting. Hardware-software complex of APCS Melting.	Cherepovets	2012
OJSC Severstal	Reconstruction of distribution substation.	Cherepovets	2012
OJSC Severstal	Modernization of electric drive of main hoist of electric bridge crane No.9.	Cherepovets	2012
Ukrqipromez for OJSC Vyksunski metallurgical works	Modernization of isothermic furnaces No.6 & No.7.	Nizhny Novgorod region, Vyksa	2012
Ukrqipromez for OJSC Vyksunski metallurgical works	Station of length & weight measuring.	Nizhny Novgorod region, Vyksa	2012
Ukrqipromez for OJSC Vyksunski metallurgical works	Modernization of complex automatic computerized system for testing, measurement and treatment of wheels.	Nizhny Novgorod region, Vyksa	2012
JSC Chelyabinsk Metallurgical Plant	Industrial control system of a dosage and path of PTS of charge-conveying system of shop No. 7.	Chelyabinsk	2012
OJSC Severstal	Reconstruction of electric bridge crane No.18.	Cherepovets	2013
OJSC Severstal	Reconstruction of control system of bridge crane of cast house of blast furnace No.1, 2.	Cherepovets	2013
OJSC Severstal	Introduction of expert system at blast furnace 5.	Cherepovets	2013
OJSC Severstal	Reconstruction of bridge crane 30/5 of mold yard of blast furnace 4.	Cherepovets	2013
OJSC Severstal	Transfer to telemetry and CCTV system of the recycling water system of turbine division.	St. Petersburg, Kolpino	2013
OJSC Severstal	Reconstruction of ash-pump house and smoke extractor with installation of CCTV workstation for monitoring of equipment.	St. Petersburg, Kolpino	2013
OJSC Severstal	Integration of control elements of control panel CP-7 with workplaces of hot metal smelters.	St. Petersburg, Kolpino	2013
CJSC Severstal – sorted plant Balakovo	Development of software for APCS of main step-down substation.	Saratov region, Balakovo	2013
OJSC Severstal	Integrated management system of interlock and alarms control with output of readings to the server of central computing system of blast furnace 4.	Cherepovets	2014
OJSC Severstal	Integrated management system of interlock and alarms control of central computing system of charging area of blast furnaces 1, 2, central computing system of cast houses of blast furnaces 1, 2 with output of readings to the workstation of gasman of blast furnace 1.	Cherepovets	2014

ENTERPRISE	WORKS	CITY	YEAR
Ukrqipromet for OJSC Vyksunski metallurgical works	Automation of line of feed and delivery of railway wheels of the section of wheels finish treatment.	Nizhny Novgorod region, Vyksa	2014
OJSC Severstal	Reconstruction of control system and electric drives of roughing mill. Software for connection with communications server .	Cherepovets	2014 – 2015
Plant for the production of cast iron technology "ROMELT"	Supply of electrical equipment for the cast iron production plant, preparation of technical documentation	Pang Pet, Republic of the Union of Myanmar	2014 – 2015
OJSC Severstal	Establishment of transfer line for laboratory tests on adhesion.	Cherepovets	2015
Plant for the production of cast iron technology "ROMELT"	Installation and commissioning, personnel training	Pang Pet, Republic of the Union of Myanmar	2016
JSC ArcelorMittal Temirtau	Modernization of BF No. 4.	Temirtau	2016
PJSC Severstal, FRP Flat rolled products shop 2. Mill 2000	Recovery of automated electric drive for flying shears and control system by cutting semi-finished rolled stocks for finishing train.	Cherepovets	2016
PJSC Severstal, CHPP steam-air blower house	Generator excitation system APBcr-RA-60-31.5-D2-8 MCCR4.	Cherepovets	2016
PJSC Severstal	Flat rolled products shop 2. Mill 2000. Vertical cage No. 1. Modernization of main electrical drive and HAGC Screw-down control hydraulic system, fiber-optic line, level 2.	Cherepovets	2016
PJSC Severstal	Chief Power Engineer Department Heat and power department Secondary energy resources of coke and by-product process. CDQ plant 3. VFD plant for boiler fan KST-80 No. 92.	Cherepovets	2016
CJSC Izhora Pipe Mill	Modernization of control system for inside welding mills.	Saint Petersburg	2016
PJSC Severstal	Coke department No. 1, electric locomotive drive CEL14 control system.	Cherepovets	2016
LLC Severstal-Proekt	Slag dart system on converters No. 1-3.	Cherepovets	2016
LLC Severstal-Proekt	Area Maintenance Building Indoor parking space building ZY4.	Cherepovets	2016
PJSC Severstal	Senior Executive of Project 107.713 Steel industry. Converter steel. Ladle furnace No. 2. Steel teeming ladle cars No. 1, 2 automated control system.	Cherepovets	2016
PJSC Severstal	Modernization of ACS Playka for vertical converter path No. 1-3.	Cherepovets	2016
LLC Severstal-Proekt	Chief Power Engineer Department CES, GPR-7B building. Building repair (AS part	Cherepovets	2016
LLC Severstal-Proekt	Application SW package. Flat rolled products shop 1, pinion stands. Walkway above drives of stands No. 1-6 with descents to the stands.	Cherepovets	2016
LLC Severstal-Proekt	Chief Power Engineer Department CHPP steam-air blower house, steam-air blower site Reinforcement of load carrying structure of pipe rack above rail tracks.	Cherepovets	2016
PJSC Severstal	Chief Power Engineer Department Heat and power department Secondary energy resources of coke and by-product process. CDQ plant 3. VFD unit for boiler fan KST-80 No. 93.	Cherepovets	2016
PJSC Severstal, Flat rolled products shop	Modernization of the control circuit for switching mill 5000 mechanisms with electro-, hydro-, pneumatic drives .	Cherepovets	2016
PJSC Severstal	Replacement of pump units of UF-resin absorption department.	Cherepovets	2016

ENTERPRISE	WORKS	CITY	YEAR
LLC Severstal-Proekt	Chief Power Engineer Department Heat and power department Site of Secondary energy resources of coke and by-product process, CDQ plant engine room. Built-in room at an elevation of 0.000 for repair personnel in the engine room shop .	Cherepovets	2016
Paul Wurth for PJSC ArcelorMittal Kryvyi Rih	Intensive mixer automation.	Kryvyi Rih	2016
JSC Vyksa Steel Works	APCS for gas sectional roller-hearth furnace No. 1 of through type.	Vyksa	2016
Iskenderun Iron & Steel works Company	Works performed for recovery of blast-furnace automated system.	Iskenderun (Turkey)	2016
LLC SMS Metalurgical Service	Servo Valves Service.	Lipetsk	2016
Paul Wurth for NLMK	Reconstruction of central point for BF No. 6, NLMK.	Lipetsk	2016
INTECO atec automation GmbH, for Taewoong Ltd	Software setting works (for production equipment: Arc-furnace, ladle furnace, VD, steel casting, handling operations).	South Korea, Busan	2016
LLC SMS Metalurgical Service	MOOG equipment supply.	Lipetsk	2016
LLC Severstal-Project for PJSC Severstal.	Steelmaking production for cast iron (drop-hammer shop). Administrative building. Floor 2. Renovation of canteine.	Cherepovets	2017
PJSC Severstal	Flat roll production. Rollforming shop 1. Modernization of control system with replacement of PGA 2-8x100-600 main drives.	Cherepovets	2017
LLC Severstal-Project	CPSD. TPP-TBS. Turbine section. Oil facility. Repair of oil supply system (sections PD, AD, PL, PE, MC).	Cherepovets	2017
LLC Severstal-Project for PJSC Severstal.	Replacement of existing blowing chamber (sections PD, AD, PE, II, AS, HVAC, MC, RCC) .	Cherepovets	2017
PJSC Severstal	Flat roll production. Rollforming shop 1. Modernization of TESA 19-50 forming and sizing mills.	Cherepovets	2017
LLC Severstal-Project	CPSD. TPP-TBS. Turbine section. Installation of maintenance platforms for grid pump equipment (section MC).	Cherepovets	2017
PJSC MMK	Equipment supply (CoilScooter analyzers).	Magnitogorsk	2017
JSC Trubodetal	Manufactuing of induction heating and supply unit for pipeline coupling parts of PO641F2 and PAO637F2 press.	Chelyabinsk	2017
JSC Blagoveshchensky Valve Plant	Designing and manufacturing of batch-operated weighing feeder.	Blagoveshchensk	2017
LLC Tulachermet-steel	Designing, assembling and supply of RUSM, YAU, YAB, YATP, UKM, SHUK, SHAVR, PPU cabinets in accordance with project on construction of cast-and-roll complex.	Tula	2017
JSC VMZ	Design engineering, project approval in regulatory authorities, manufacturing, supply and installation of equipment, commissioning works on modernization of gas through-type section roller furnace No.1.	Vyksa	2017
JSC VMZ	Design engineering, manufacturing, supply and installation of equipment, commissioning works on additional cooling of internal water circuit of Weldac electric-welded pipe induction heating plant 1700/1500 (HFW), SNG6 (LHT) weld seam double heat treatment plant and hydraulic station for stripe preparation section in PEWS-3.	Vyksa	2017
JSC Azerboru	Design engineering, installation of equipment, commissioning works on modernization of circle heating furnace.	Sumgait	2017
JSC ArcelorMittal Temirtau	Mixer section aspiration system.	Temirtau	2017
JSC ArcelorMittal Temirtau	Aspiration system for undersize lime briquetting section.	Temirtau	2017



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JSC ArcelorMittal Temirtau	Reconstruction of drive control systems at ANGA-1700 lines.	Temirtau	2017
JSC ArcelorMittal Temirtau	Modernization of stripe tempering process control system for thermochemical treatment furnace.	Temirtau	2017
JSC ArcelorMittal Temirtau	Design engineering on redundancy of PA-1,2 main drive generators using thyristor converters of 5-stand cold rolling mill 1700.	Temirtau	2017
JSC ArcelorMittal Temirtau	BF4 automated process control system.	Temirtau	2017
PJSC BAZ	Installation of heating cable-based deicing system on storage building spillweir.	Blagoveshchensk	2017
PJSC Severstal	Pipe production. Plate rolling shop. Modernization of rolling mill 5000.	Cherepovets	2017





# MINING



ENTERPRISE	WORKS	CITY	YEAR
JSC ALROSA, Aikhal mine	Performance of design works and development of design and estimate documents of AK ALROSA. Aikhal mine. Start-up facility for 200 thousand ore per year. Automated operative run-time system (AORTS-I, start-up facility) Underground part. 'Dewatering subsystem. Main dewatering station at level +100m.	Mirny, Yakutia	2008
JSC ALROSA, Mir mine	Process automated control system, automated information system of commercial accounting	Mirny, Yakutia	2008
OJSC GMK Norilsk Nickel	Automated system of sludge feed system by sludge pumps. Automated system of sludge preparation in SM. Implementation of acoustic control of SM load, and also upper and medium level of APCS.	Norilsk, Krasnoyarsk region	2008
OJSC Olenegorsky ore mining and processing enterprise	Project of overpass installation under the route of concentrate pipelines.	Olenegorsk	2008
JSC ALROSA, Aikhal mine	Development of mine to -100 m level for increase of reserves excavation fullness. Power supply system 6 kW.	Mirny, Yakutia	2009
JSC ALROSA, Mir mine	Opening-out and development of pit reserves to the level -615 m.	Mirny, Yakutia	2009
JSC ALROSA, Udachinskiy mine	Development of Udachny mine to -320 m level for increase of reserves excavation fullness. Mine power supply system 6 kW. Electric equipment. Electric lighting.	Mirny, Yakutia	2009
JSC ALROSA, Mir mine	Automated run-time system (AORTS) of Mir underground mine.	Mirny, Yakutia	2010
LLC Bakalskoe mine group	System of monitoring of burning furnaces work. Development of technical requirements, design, supply of equipment, construction and installation works, commissioning works.	Bakal	2010 – 2011
JSC ALROSA, Mir mine	Building and installation works, development of process regulation with industrial safety expert review and performance of commissioning works at object MIR mine AORTS Airing subsystem.	Mirny, Yakutia	2011
OJSC GMK Norilsk Nickel	Reconstruction of high frequency shaft connection system at turn-key conditions.	Zapolyarny	2011
LLP Pro Eurasia KZ	Implementation of APCS for hydrocyclone units.	Kazakhstan, Karaganda	2011
Becker Mining Systems AG, Kuzidong mine	Development of software of Mincos controller for the object. PRC. KuZiDong mine. Underground distribution point 0.69 kV at level -967m. Development of operational documentation.	Kemerovo region	2011
LLP Pro Eurasia KZ	Implementation of the control system for PRO Eurasia fleet machines.	Chita region, Mogochinsky District	2012
JSC EVRAZ Kachkanar GOK	Automated control system of tricalcium phosphate cascade at the process sections of medium and fine crushing No. 8, 10.	Kachkanar	2012
CJSC IVS	Modernization of wet autogenous mill.	St. Petersburg	2012
JSC Zhayrem ore mining and processing enterprise	APCS of dressing works.	Kazakhstan	2012

ENTERPRISE	WORKS	CITY	YEAR
OJSC Karelsky okatysh	Modernization of control system of crushed ore divider at pelletization sector of CPO of OJSC Karelsky okatysh.	Karelia, Kostomuksha	2012
JSC ALROSA, Mir mine	Opening-out and development of 1 stage reserves to level -580m. Level -480.	Mirny, Yakutia	2013
JSC ALROSA, Mir mine	APCS of Mir mine trunk conveyor, level -410m.	Mirny, Yakutia	2013
OJSC GMK Norilsk Nickel, CHPP-1	ACS of fire alarm and smoke removal.	Zapolyarny	2013
OJSC GMK Norilsk Nickel, CHPP-1	Office building. ACS of fire alarm and smoke removal.	Zapolyarny	2013
OJSC GMK Norilsk Nickel, CHPP-1	Pump system of fire-fighting water supply of main building.	Zapolyarny	2013
LLC Polus stroy	Pumps control cabinet -1.	Magadan	2013
LLC Omya urals	Set of measures of power supply and automation of Kotlas GCC ground marble processing plant.	Koryazhma	2013 – 2014
LLC Omya urals	Performance of construction works of the ground marble processing plant.	Koryazhma	2013 – 2014
OJSC Kovdor ore mining and processing enterprise	Building of pump station for quarry water use in the recirculating water supply of the concentrating complex.	Murmansk region, Kovdor	2014
OJSC Kovdor ore mining and processing enterprise	Technology upgrade of the Crushing and Preparation Plant capacity to ensure ore processing up to 18 mln tons.	Murmansk region, Kovdor	2014
OJSC Apatit, Kirovsk Mine	Automation of crushing-delivering complex of motherbore No. 2.	Kirovsk, Murmansk region	2015
OJSC Apatit, Kirovsk Mine	Reconstruction of the mill and flotation sector.	Kirovsk, Murmansk region	2015
OJSC Apatit, Kirovsk Mine	Automated block-module electrical boiler-house for heat supply and WAN in Koashva.	Kirovsk, Murmansk region	2015
OJSC Apatit, Kirovsk Mine	Water packed vacuum pumps control system.	Kirovsk, Murmansk region	2015
JSC ALROSA. Mirninsky MPP. MIR mine	Level -410m. Opening and haulage workings. Subsystems: Gas Detection and Environmental Monitoring; Communications; Personnel and transportation monitoring ; Power supply; Automatic fire fighting; Conveyor transport control; CCTV.	Mirny, Yakutia	2015
JSC ALROSA. Mirninsky MPP. MIR mine	Level -210m. Underground complex. ASODU. APCS. Complex of main drainage installation with FPP-1 Surface complex. ASODU. APCS. COP CDU.	Mirny, Yakutia	2015
JSC ALROSA. Udachninsky MPP. Udachnyi mine. Opening of the reserves in the elevation-290 / 580m	Set - solid work at the level -260/380m. Cabling in workings, sub-level -365. Electric installation.	Mirny, Udachnyi	2015
OJSC KMARUDA Combine	Gubkin Mine, Gubkin Personnel positioning system, Vehicle positioning system, Transport signaling subsystem, Search system under debris, Radio communication system.	Belgorod region, Gubkin	2015
JSC Kovdorsky MPP	Crushing Concentrating Plant: Reconstruction to increase production capacity for processing ore to 25 million tons per year. Technical re-equipment of conveyor transport (4 pipelines). APCS.	Murmansk region, Kovdor	2015

ENTERPRISE	WORKS	CITY	YEAR
JSC TNK KAZHROM. Donskoy MPP. Mine of the 10th anniversary of Independence of Kazastan (ShDNA)	Concrete-packing facility. APCS.	Aktobe region	2015
Norilsk-Taimyr Energy Company	CHPP-2. Main building. Reconstruction of the fire extinguishing system.	Norilsk	2015
PJSC Norilsk Nickel. Open-pit Komsomolsky. Skalistaya mine	Superficial packing complex II. APCS.	Norilsk	2015
PJSC Norilsk Nickel. Open-pit Komsomolsky. Skalistaya mine	ADCS. Subsystems: MSDT; Seismic monitoring; Extraction; CRC equipment; Fill; AFF; Fan setting; Hoisting plants; TEIA; CCTV; GDEM; Electro.	Norilsk	2015
PJSC Severalmaz. MPP on the field Lomonosov	ASU of dehumidification, drainage systems for quarries and dumps.	Arkhangelsk	2015
JSC ALROSA. Lensk CPD. Biological cleaning unit	Biological treatment unit with a capacity of 20 000 m <sup>3</sup> / day (Administrative building, production building, biological treatment unit). Power-generation BTU (Boiler house, Diesel power station, Emergency fuel warehouse, Pumping station PPVS, RP-6kV, TP6/0,4kV).	Lensk, Yakutia	2015
OJSC Apatit	Reconstruction of the heating and hot water supply systems and construction of modular electric boiler.	Kirovsk	2015
OJSC Apatit	Construction of electrical substation on 150 kV in Kirovsk.	Kirovsk	2015
OJSC Apatit	Building of automated block-module electric boiler-house for heat supply and hot water supply of Koashva.	Koashva, Murmansk region	2015
OJSC Apatit	Work package of power increase of substation 355 power transformers for connection of block-module electric boiler-house.	Koashva, Murmansk region	2015
JSC ALROSA. Mirninsky MPP. Mine International	The system of automated thermal monitoring of buildings and structures of the industrial site of the mine.	Mirny, Yakutia	2016
JSC ALROSA. Mirninsky MPP. Mine International	Surface complex ASODU, APCS. Intrasite communication networks: Tower of a cooper with a supernumerary building; Transport gallery with unloading node; CRP-2; Sewage pumping station; Freezing station; The building of the hoist lifting machine; Building of skip hoist lifting machine. Subsystems: MSPD, APT PS, Complex of means of central dispatching control, Power supply.	Mirny, Yakutia	2016
JSC ALROSA. Mirninsky MPP. Mine International	Horizon +85 m. AGZ, AGK, APTV. Horizon + 85 / 0m. APCS of the skip load complex (GLC) at + 75m., The automated control system of the unloading conveyor at + 90m. Horizon + 85m. Monitoring of personnel and underground transport.	Mirny, Yakutia	2016
JSC ALROSA. Mirninsky MPP. MIR Mine	The system of automated thermal control of tasks and structures of the industrial site of the mine.	Mirny, Yakutia	2016
JSC ALROSA. Mirninsky MPP. MIR Mine	Horizon -410m. Underground complex. ASODU. Subsystems: ISMT, VCT, AUPT, power supply, video surveillance.	Mirny, Yakutia	2016
JSC ALROSA. Mirninsky MPP. MIR Mine	Horizon -410m. Underground complex. Automated control systems for auxiliary conveyors 300 m and 310 m in length.	Mirny, Yakutia	2016

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PJSC ALROSA. Udachninsky MPP. Udachnyi mine. Opening of the reserves in the elevation-290 / 580m	Horizon - 650m. Underground complex. APCS. Automation of the dewatering complex. ASODU. I starting complex. Underground complex. Subsystem MRTD. Subsystem Rise. ASODU. II starting complex. Underground complex. Subsystem Drain; Subsystem APT PS. Subsystem Electrosupply. Drainage complex with suitable workings.	Mirny, Udachnyi	2016
JSC Kovdorsky MPP	Crushing concentrating factory. Reconstruction in order to increase the production capacity for processing ore to 25 million tons per year. CICA. Cone crushers Metso. APCS	Murmansk region, Kovdor	2016
PJSC Norilsk Nickel. Open-pit Komsomolsky. Skalistaya mine	Radiocommunication and positioning system.	Norilsk	2016
PJSC Norilsk Nickel. Mayak mine	Radiocommunication and positioning system.	Norilsk	2016
PJSC Norilsk Nickel. Zapolyarny mine	Radiocommunication and positioning system.	Norilsk	2016
PJSC Norilsk Nickel. Open-pit Komsomolsky. Komsomolskaya mine	Radiocommunication and positioning system.	Norilsk	2016
PJSC Norilsk Nickel. Oktyabrsky mine	Horizon -850. Automated control system for underground rail transport.	Norilsk	2016
PJSC Severalmaz. MPP on the field Lomonosov	Concentrating fabric. Modernization of the automated process control system of the heavy-weight separation unit.	Arkhangelsk	2016
PJSC Norilsk Nickel	Radio communication and positioning systems at the Skalistaya mine.	Norilsk	2016
PJSC Norilsk Nickel	Radio communication and positioning systems at the Mayak pit.	Norilsk	2016
OJSC Apatit	ED Reconstruction of Soft starter 45, Central underground substation 1, Soft starter 11, Central underground substation 3, Central underground substation 11 including high voltage units replace.	Kirovsk	2016
JSC PhosAgro-Cherepovets	Technical upgrading fertilizer discharge facilities, LCP, bldg. 7,35.	Cherepovets	2016
JSC Apatit, ANOF-3	Recovery of smooth-start system of M-9, M-11 mills engine.	Kirovsk	2016
JSC Apatit	Recovery of processing section of mills 10, 12.	Kirovsk	2016
PJSC ALROSA, Mir mine	First start-up facility. Power supply system 110/6.3/6.6 kV.	Mirny, Yakutia	
JSC APATIT	Reconstruction of NCPS in ANWH-2. Grinding. Flotation. Connection of stage 1 equipment in MFS.	Kirovsk	2017
JSC APATIT	Equipping of 500kW motor 1 with VFD at flotation stage 1 and 2.	Kirovsk	2017
JSC APATIT	Tehcnical upgrade of flotation APCS for NCPS in ANWH-2.	Kirovsk	2017
JSC APATIT	Tehcnical upgrade of grinding process sections for NCPS in ANWH-2.	Kirovsk	2017

# ENERGY



ENTERPRISE	WORKS	CITY	YEAR
OJSC Mosenergo subsidiary	Implementation of high-voltage frequency-regulated electric drive and design and survey work at CHPP-23; CHPP-26; CHPP-20; CHPP-17; CHPP-22; CHPP-9; CHPP-25.	Moscow	2007 – 2014
CJSC Diakont for Kolskaya NPP	Development of seven complexes of automatic digital brushless excitation regulators of synchronous generator for emergency power supply system. The regulator is built on the basis of digital microprocessor system of excitation current control DECS-200N by Basler Electric. Exciter of synchronous generator OB-VE-24-4-D22 modification for moderate climate.	Polarnye zori	2008
Krasnokamenskaya CHPP	Designing, manufacturing, supply, adjustment. Exciter of synchronous generator OS-VE-230-1600-D11-3modification for moderate climate (1 pc.).	Krasnokamensk	2008
OJSC Irkutskenergo	Development of software and commissioning of pump station in Meget village.	Angarsk	2008
OJSC Irkutskenergo	UTSTEC-9 CHPP. Project implementation and deployment on the UTS CHPP-9: Extension of automated run-time system (ARTS) of pump stations.	Angarsk	2008
Fsue Russian Federal Nuclear Center Vniief	Power stand based on TPD32-400I420-110-4B converter.	Sarov	2008
OKSC Uralelectromontazh	Commissioning works of digital excitation system set of exciter of synchronous motor RA-115-315 modification for moderate climate, I=315 A, U=115 V, IP54, pcs.	Ekaterinburg	2009
OJSC OGG-6	Works on modernization of control system of excitation current of BTV-300 brushless exciter are performed. Project, supply, installation supervision, commissioning.	Cherepovets	2009
Municipal Enterprise Salekhardenergo Municipal Unit Salekhard	Manufacturing and supply of digital excitation control system Exciter of synchronous generator OB-VE-32-20-D2N-2 modification for moderate climate including: cabinet of control and protections, 3P group of 1.25 kVA matching transformers, set of fuses, set of spare parts, installation supervision and commissioning works.	Yamal-nenets autonomous area, Salekhard city	2009
LLC Westron	Supply of digital system of excitation control ARV synchronous generator 48-4; 0-D2-2N modification for moderate climate of diesel generators – 4 pcs.; set of spare parts ZIP-G-ARV –1 pc.	Ukraine, Kharkov	2009
LLC Tyumenkomplekt-specmontazh	Complete switchgear of indoor installation of 7.2 kV, consisting of 11 Simosec cells Siemens with nominal current of collecting buses 1250 A.	Tyumen	2009 – 2010
LLC Anham	Digital system of excitation control DEC-125-480-D11-3-pcs., matching transformer 3T250 kVa–3 pcs.	UAE	2009 – 2010
OJSC Kamchatskenergo	Substation Novaya, Centralnaya, Elizovo. Reconstruction of relay protection and automatics (RPA) and central signalling system (SS) of power transformers.	Pertopavlovsk-Kamchatsky	2010
OJSC Kamchatskenergo	Substation 110/35/10 Kv Kavalerovskaya. Reconstruction.	Pertopavlovsk-Kamchatsky	2010

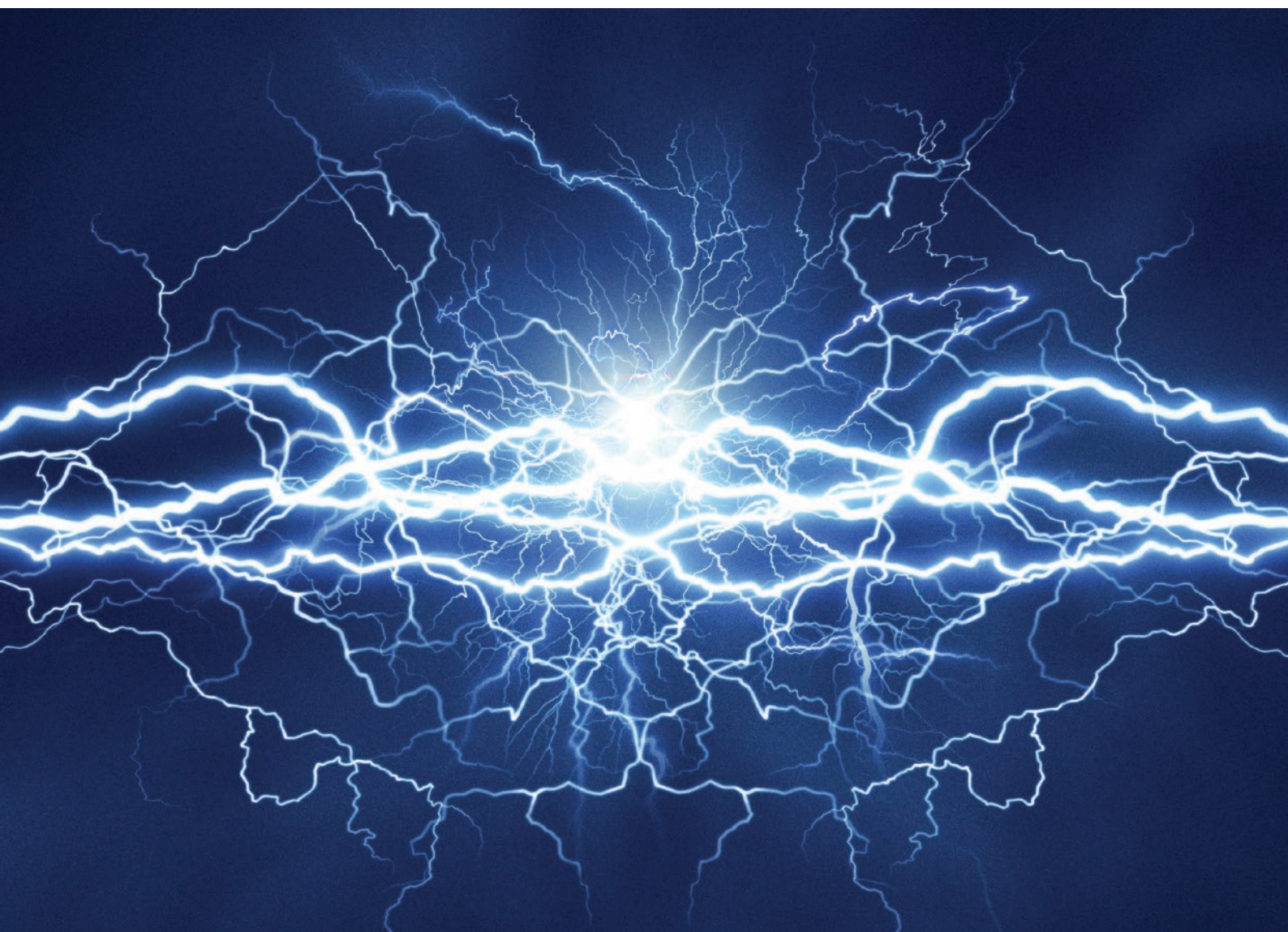
ENTERPRISE	WORKS	CITY	YEAR
JSC Sevkazenergo	Several works including: Implementation of automated control system of process equipment; Implementation of system of frequency control of feeders; Implementation of system of frequency control of pulverized feeders; Implementation of exciter of synchronous generator; service works and others.	Kazakhstan, Petropavlovsk	2010 – 2013
OJSC Kamchatskenergo	Substation Kavalerovskaya, Oktiabrskaya. Performance of design and survey works by object: reactive power compensation in Ust-Bolsheretsky rayon. Performance of design and survey works by object: heating equipment of RP-520.	Pertopavlovsk-Kamchatsky	2011
LLC Energofichtner for Ekibastuzskaya SDPP	Set of works of implementation of building of 3rd power unit.	Ekibastuz, Kazakhstan	2011
OJSC Fortum. Chelyabinskaya CHPP-3	Implementation of automated control system of additional pumping aggregate of peak boiler-house.	Chelyabinsk	2011
CJSC Energokaskad	Building of balance-of-plant gas turbine power plant at Vankorskoye field. Heating, ventilation and heat supply.	Moscow	2011
OJSC Kolymaenergo	Project of complex APCS. Installation works, commissioning, equipment dismantling. Reconstruction of drying system.	Magadan	2011 – 2013
OJSC OGK-6	Reconstruction of excitation system of TG-7 turbogenerator. Filiation of OJSC OGK-2. Krasnoyarsk SDPP-2 (Exciter of synchronous generator OS-VE-460-2500-D22-4 modification for moderate climate).	Krasnoyarsk	2012
OJSC OGK-6	Reconstruction of relay protection and automation of power unit No.7.	Krasnoyarsk	2012
LLC Loesche	System of power supply and automated process control system (APCS) of Lime grinding at Customer object Sibirsky stroitel Iskitim town (designing, supply, installation supervision, commissioning).	Novosibirsk	2012
Loesche GMBH	Designing, supply, installation supervision, commissioning. System of power supply, monitoring and automatic control of complete mill.	Kazakhstan, Zhayrem	2012
H&K Industrieanlagen GMBH	Installation supervision of the whole electric equipment and automation system, putting into operation of electric equipment and motors of transportation line, putting into operation of electric equipment and motors of unloading line.	Novokuznetsk	2012
OJSC Quadra	Dorogobuzhskaya CHPP. Development of technical project and estimate documents to the project: Modernization of circuit of BOP power supply of GTU PP equipment.	Dorogobuzh, Smolensk region	2012
OJSC Quadra	Orlovskaya CHPP. Development of estimate documents to reconstruction of excitation system of generator of power unit No.3 inv. No. 00040227 PP Oryol CHPP of filiation of OJSC Quadra Oryol regional generation	Oryol	2012
OJSC E.ON Russia	Beryozovskaya SDPP. Design and construction works on replacement of electric motors of fuel supply. Works of implementation of project Building of 3rd power unit on the basis of 800 MW STU of filiation Beryozovskaya SDPP of JSC E.ON RUSSIA: implementation of redundant set of FCD 6 kV Rockwell Automation Powerflex 700 for connection of 8 motors of fuel supply run A and 8 motors of fuel supply run B.	Krasnoyarskyi region	2012



ENTERPRISE	WORKS	CITY	YEAR
OJSC TGK-1	Kolsky subsidiary. Installation of control keys of flushing of emergency-repair gates at main control panel of HPP 15, 16. Reconstruction of aggregates control circuit with installation at main control panel of control keys of BPSH flushing. Reconstruction of SN circuit with installation of autonomous power supply. Monitoring system of hydraulic aggregates shaft beat at cascade of Tulomsky HPPs Reconstruction of SN circuit, installation of autonomous power supply of HPPs – 1, 2, 3, 11. Monitoring system of shaft beat. Monitoring system of hydraulic assemblies shaft beat.	Kola	2012 – 2014
OJSC OGK-2	Reconstruction of excitation system of turbogenerator.	Cherepovets	2013
OJSC OGK-3	Kharanor SDPP, reconstruction of APCS 3, modernization of LACS.	Trans-baikal territory	2013
OJSC Geoterm	Mutnovskaya geothermic station. Reconstruction of fan cooling tower No.2. Technical project Reconstruction of excitation system of turbogenerator 1. 2.	Pertopavlovsk-kamchatsky	2013
ALES	Reconstruction of crusher house equipment of CHPP-3. Development of design and estimate documentation.	Almaty, Kazakhstan	2013
OJSC VNIIR Hydroelectro-avtomatika	Projects of referencing of excitation system for several HPP.	North Ossetia	2013
OJSC Inter RAO – electric power plants	Gusinoozyorskay SDPP. Development of project documents of reconstruction of outdoor switchgear-110, 220 kV cells with exchange of disconnectors and oil switches to insulating gas ones.	Republic of Buryatia, Gusinoozyorsk	2013 – 2015
OJSC Quadra	Efremovskaya CHPP. Project of individual breaker failure protection of MV 667 of production unit. Development of project documents for exchange of wall panels of building of boiler-turbine shop of PP.	Efremov, Tula region	2014
OJSC Inter RAO – electric power plants	Kostromskaya SDPP. Modernization of switchgear and control gear – 6 kV of power unit st. No.5 with regard to arc protection.	Kostroma region	2014
OJSC Inter RAO – electric power plants	Kharanorskaya SDPP. Services of configuration modification of SOTI-ASSO. Reconstruction of APCS at power units 1, 2. Replacement of means of information displaying.	Trans-baikal territory	2014
OJSC Gazprom, Branch Afipelecrogaz/ Elecrogaz.	Branch Afipelecrogaz/ Elecrogaz. BKAЕ-0,4-630-K block set automated power plant.	Krasnodar	2014
OJSC Orenburg TGK	Technical re-equipment of automation system of pumping station No.2 - development of project documents (basic project), working documents (detailed project) and industrial safety expert review.	Orenburg	2014
Nizhny Tagil thermal networks	Design of system of excitement and relay protection of the generator of boiler GGM.	Nizhni Tagil	2015
Dagestan branch office of OJSC RusHydro, Irganai HPP	Modernization of control automation for ring valves ra-1 and ra-2 of Irganai HPP.	Dagestan	2016
OJSC Generating Company, Naberezhnye Chelny CHPP	VFDs for second lift pumps II HP-1, II HP-2.	Kazan	2016
OJSC Generating Company, Naberezhnye Chelny CHPP	VFDs for condensate pumps of boilers SR-10, 11 CNS-10A, 11A.	Kazan	2016

ENTERPRISE	WORKS	CITY	YEAR
OJSC Generating Company, Naberezhnye Chelny CHPP	VFDs for desalinating plant of chemically purified water pumps 1,2 of by-product recovery department.	Kazan	2016
OJSC Generating Company, Naberezhnye Chelny CHPP	Voith hydraulic coupling for feed pump PE-500-180 of plant No. 12.	Kazan	2016
OJSC Service Montazh Integratsiya	Motor excitation system KBcOC-RA-75-400-D22-8 MCCR4.	Kazan	2016
Nizhny Tagil Municipal Unitary Enterprise Nizhnetagilskie teplovye seti	Generator excitation system APBcr-RA-60-15-D2-8 MCCR4.	Nizhny Tagil	2016
LLC Bashkir Generation Company	Technical upgrading outdoor switchgear.	Ufa	2016
OJSC Taimyreneero	Design works on replacement of Ust-Khantaiskaya HPP power transformers.	Norilsk, Snezhnogorsk settlement	2016
OJSC Electrocentromontazh	Reconstruction of Hydro generator excitation system.		2016
OJSC TGC-1 Nivskie HPP Cascade, Kola branch	Shaft runout monitoring APC.	Murmashi settlement (Murmansk oblast)	2016
CJSC Nizhnevartovskaya TPP	Development of design solutions on thermal and mechanical equipment of power unit No.3.	Izluchisk settlement	2016
Irlinskaya TPP of JSC Inter RAO Electric Power Plants	Modernization of unit No.7 transformer T-7, unit No. 8 transformer T-8 regarding replacement of PBMG-500 valve magnet discharger with OPN-500 surge arrester.	Energetik Settlement (Orenburg oblast)	2016
PJSC Mosenergo	Replacement of section oil circuit breaker CMB 134, 110 kV with tank-type sulphur hexafluoride switch including replacement of disconnecting, switching devices and protections at CHPP-23.	Moscow	2016
Kharanorskaya TPP of JSC Inter RAO Electric Power Plants	Reconstruction of chemical water treatment equipment with introduction of coagulation and lime treatment.	Yasngorsk (Zabaykalsky Krai)	2016
CJSC Nizhnevartovskaya TPP	DD development for modernization of boiler plant of unit No. 1.	Izluchinsk	2016
PJSC TGC-1 (ES-2 of Central CHPP of the Nevsky branch of JSC TGC-1)	Design and survey works, construction and installation works including preparation and commissioning on modernization of PS-2 grid pump equipment of lifting stage 2 (based on Deluim gland-sealed pumps (Q=2700 m <sup>3</sup> /h, H=60m, D350-530A-a-UKHL3.1 hadd=9.5m) installed on the common frame with A4-400U-4MU3 motor (630kW, 1500 rpm)).	Saint-Petersburg	2016 – 2017
JSC Tatenergo (Naberezhnye Chelny heating networks)	Designing on reconstruction of make-up pump station No.6 including installation of variable frequency drive, automation, dispatching and approval by regulatory authorities for Tatenergo Naberezhnye Chelny branch.	Naberezhnye Chelny	2016 – 2017
JSC Tomsk generation	Design and survey works on reconstruction of 110kV open switchgear including replacement of VMT-110 oil circuit breakers with SF <sub>6</sub> circuit breakers for Tomsk TPP-3.	Tomsk	2017
Kostromskaya GRES branch of JSC Inter RAO - electric power plants	Design and survey works on reconstruction of block No.7 arc protection system of 6kV metal-clad switchgear.	Kostroma Region, Volgorechensk	2017

ENTERPRISE	WORKS	CITY	YEAR
JSC RusHydro	Detailed engineering on replacement of make-up pumps No1, 2, 3.	Amur Region, Zeya	2017
JSC Inter RAO-electric power plants TGC-1	Reconstruction of chemical water treatment with implementation of coagulation process for influent water in clarifiers.	Saint-Petersburg	2017
PJSC Mosenergo	Repair works as a part of Repair and maintenance of Allen Bradley variable frequency drives for PJSC Mosenergo CHPP branches.	Moscow	2017
Sarovskaya CHPP	Static systems for KVsgOS-RA-230-500-D22-8 UKHL4 generators.	Sarov	2017
Salekhardenergo	Automatic excitation control (generator AEC) for ARV-SG-BE-36-8-D2-5 UKHL4 generator.	Salekhard	2017
LLC Vestron for Rovenskaya NPP	Automatic excitation control (generator AEC) for ARVsg-VE-36-16-D2-25 UKHL4 generator.	Rovenskaya region	2017
PJSC TGC-1 (Petrozavodskaya CHPP of the Karelsky branch of JSC TGC-1) / JSC Gidromashservis	Replacement of APE 580-185-5 feed-pump with 4A3M-4000/6000-UKHL4 motor including oil station and instrumentation of Petrozavodsk TPP for the needs of JSC TGC-1 Karelskiy branch.	Petrozavodsk	2017
PJSC RusHydro	Detailed engineering on modernization of pumping-out station for turbine water-conveying system.	Amur Region, Zeya	2017
LLC Vestron for Khmel'nitskaya NPP	Automatic excitation control (generator AEC) for ARVsg-VE-36-16-D2-25 UKHL4 generator.	Khmel'nitsky region	2017 – 2018



# OIL & GAS & CHEMICALS



ENTERPRISE	WORKS	CITY	YEAR
JSC Salavatnefteorgsintez	Electric drive of the factory mechanisms.	Salavat, Republic of Bashkortostan	2008
LLC Usolye sibirsky silikon (Nitol group)	Connection of hydrogen cleaning installation. Development of working projects of electrical system and instrumentation system.	Usolye-Sibirskoye, Irkutsk region	2008
JSC Salavat-nefteorgsintez	Exciter of the synchronous engine EX-SR-75-315-UHL4 (9 pcs.).	Salavat, the Republic of Bashkortostan	2009
OJSC Lukoil, Varandey Oil Terminal	Supply, commissioning, installation supervision of the pre-charge device for the Robicon frequency converter.	Varandey	2009
Providence Doytch Limited, drilling rig	Perform repair work to restore the performance of the high-voltage drive (SiemensPerfectHarmony) on a drilling rig located in the open sea and on a stationary drilling rig.	Azerbaijan	2009
OJSC Lukoil, Varandey crude oil loading terminal	Construction and installation work of two complete systems-speed automatic transfer switch between sections 6 kV.	Varandey	2009 – 2010
OJSC Lukoil, Varandey Oil Terminal	Complex of works on installation of one set of BAVR on 35 kV Substation R-473.	Varandey	2010
OJSC Lukoil, Varandey Oil Terminal	Construction and installation works of two complete systems of high-speed automatic reserve switching between 6 kV sections.	Varandey	2010
OJSC Gazpromneft-Noyabrskneftegaz, branch Muravlenkovskneft	Substation 36 / 6KV Kust-15, Kust-48, Southern Sugmutsky deposit. Installing the Starter.	Muravlenko	2010
OJSC Gazpromneft-Noyabrskneftegaz, branch Muravlenkovskneft	Substation 36 / 6KV Yangting of the North Yangtinskoye field. Installing the starter.	Muravlenko	2010
OJSC Gazpromneft-Noyabrskneftegaz, branch Muravlenkovskneft	The complex of works on installation of two sets of PU BAVR at the Sugmutskeye field of PS K-11, K-21.	Muravlenko	2010
OJSC Gazpromneft-Noyabrskneftegaz, branch Muravlenkovskneft	The block of the fast-acting automatic transfer reserve initiator (BAVR), implemented in the terminal with the use of components made by the American company BeckwithElectric.	Muravlenko	2010
OJSC Gazprom Automation	Arrangement of the Senoman-Apt deposits of the Bovanenkovskoye oil and gas condensate field. Complex gas treatment unit, automatic fire alarm system, gas contamination control and fire fighting.	Yamal	2011
OJSC Gazprom Automation	Arrangement of the Senoman-Apt deposits of the Bovanenkovskoye oil condensate field, a cluster of gas wells GP-2. Bush 63, 61, 57, 46, 43, 35.	Yamal	2011



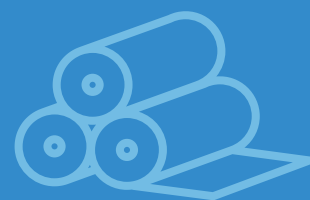
ENTERPRISE	WORKS	CITY	YEAR
PJSC SIBUR Holding, Cooling tower №1,2,3	Modernization of cells RU-6kV TP-18/2.	Voronezh	2011
PJSC SIBUR Holding, Cooling tower №1,2,3	Direct current drive KTE-3000, KTE-2800.	Voronezh	2011
OJSC Cherepovetsky Azot	Workshop on ammonia production No. 2. Project documentation, working draft, EM project. Duplication of the UPS ASU TP.	Cherepovets	2011
OJSC Cherepovetsky Azot	Shop for ammonia production No. 2. Change in the circuit of power supply RU-6kV, 5,6 RP.	Cherepovets	2011
OJSC EuroChem, Kovdorsky GOK	BKTP 1600/6/0, 4 kV - 4 pcs.	Kovdor	2011
JSC Novokuibyshevsky Refinery, PJSC NK Rosneft	Power unit No. 2 of Shop # 76. Design of digital excitation control system ARV-SG-UN-24-6,3-D2-UHL4.	Novokuibyshevsk	2011
EKOTEP Ltd. for JSC PhosAgro-Cherepovets	ACS with electric drive and power supply of the water rotation cycle No. 7 / 2A for the installation of weak nitric acid/	Cherepovets	2012
Kemerovo OJSC Azot	Technical re-equipment of the control system of flow-transport systems in the shop of carbamide.	Kemerovo	2012
PJSC SIBUR Holding, Cooling tower №1,2,3	Replacement of switches and disconnectors GPP3.	Voronezh	2012
PJSC SIBUR Holding, Cooling tower №1,2,3	Modernization of 6 kV cells at substations No. 53, 56, 71. Replacement of oil switches with vacuum, electromechanical relay protection for microprocessor.	Voronezh	2012
JSC Salavat-neftekhimremstroy	Designing, manufacturing and delivery of exciters of the synchronous motor KVsdOC-RA-48-320-UHL4.	Salavat, the Republic of Bashkortostan	2012
JSC Salavat-neftekhimremstroy	Designing, manufacturing and delivery of exciters of the synchronous engine KVsdOC-RA-75-320-UHL4.	Salavat, the Republic of Bashkortostan	2012
CJSC Sibospererabotka	Modernization of automatic control system of installation of 3rd & 4th oil preparation columns.	Leningrad region, Gatchina	2013
OJSC Altai-koks	Modernization of electric drive of levelling arm of pushing beam.	Altai region	2013
OJSC Altai-koks	Modernization of electric drive of ejecting arm of pushing beam.	Altai region	2013
OJSC Altai-koks	Modernization of electric drive of pushing beam movement.	Altai region	2013
OJSC Norilskgazprom	Scope of works of technical re-equipment of Boiler-room of Tukhard village object in the field of implementation of project Air control system by content of oxygen oxide and methane in boiler-room of Tukhard village.	Norilsk, Krasnoyarsk region	2014
LLC TEKNOS	Power supply system of main and auxiliary process equipment. System of technology processes automation.	Leningrad region	2014
JSC Gazprom Electrogaz	Modular integrated automated power plants MIAPP-500, MIAPP-630, MIAPP-1000.	Krasnodar	2014 – 2015
LLC ZapSibNeftekhim	Construction of electric substation 110/10 kV with 110 kV feeding power transmission line.	Republic of Tatarstan	2015
LLC Sibur-Portenegro	ESS and DCS systems expansion, air cooling automation, expansion of APCS channels, automation of 5 diesel power plants (integration into the existing APCS) of Liquefied petroleum gas transfer complex.	St. Petersburg	2015
LLC ZapSibNeftehim	Substation 110/10 kV ZapSib-2. VT and CT cabinets.	Tobolsk	2016
LLC ZapSibNeftehim	Substation 110/10 kV ZapSib-2. Low voltage distribution switchboard.	Tobolsk	2016
LLC ZapSibNeftehim	Substation 110/10 kV ZapSib-2. Operative current distribution cabinets.	Tobolsk	2016

ENTERPRISE	WORKS	CITY	YEAR
LLC ZapSibNeftehim	Substation 110/10 kV ZapSib-2. APCMS control cabinet.	Tobolsk	2016
LLC ZapSibNeftehim	Communication and control cabinets.	Tobolsk	2016
JSC Gazprom Electrogaz	Automatic control panel DGS 630.	Moscow	2016
JSC Gazprom Electrogaz	Power and auxiliaries boards cabinets for cross point unit.	Moscow	2016
JSC Gazprom Electrogaz	Power switchboard cabinet, fire fighting systems power cabinet.	Moscow	2016
OJSC Gazprom	Auxiliaries board.	Moscow	2016
JSC SRP	Multipurpose gas checking device, 30000 t with reference to the existing warehouse.	Gatchina	2016
JSC SIBUR-Khimprom	APBcr-RA-115-400-2K MCCR4.	Perm	2016
LLC TEKNOS	Paint Factory TEKNOS, address: Saint Petersburg, Petergof, Marino, Industrial Park Maryino, site No. 13.	Leningrad Oblast	2016
LLC Ecotep for JSC Phosagro-Cherepovets	ACS with electric drive and power supply of water circulation cycle No. 7/2A for weak nitric acid plant.	Cherepovets	2016
Service-montazh-integracia (Nizhnekamsk-neftekhim)	KVsdOS-RA-60-400-D22-UKHL4 motor statistical systems.	Nizhnekamsk	2017
SIBUR, JSC Uralorgsintez	Inspection of electrical plants to work out solutions on increasing reliability of power supply, stability of process equipment operation, reducing of power loss in JSC Uralorgsintez grids.	Chaikovsky, Perm Region	2017





# PULP & PAPER

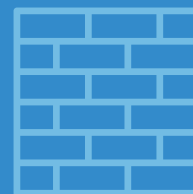


ENTERPRISE	WORKS	CITY	YEAR
OJSC Ilim Group	Modernization of the technical means . 3rd pump room APCS .	Koryazhma	2008
OJSC Ilim Group	Complex control system of paper machine PM-6.	Koryazhma	2008
OJSC Ilim Group	Automation of gas equipment of bark boilers.	Koryazhma	2009
CJSC Ryazan Cardboard and Ruberoid Plant	Supply of compressor equipment with telemetry system of air consumption recording in three points pump (turn-key project).	Ryazan	2009
OJSC Ilim Group	Modernization of electric control system of PM - 1.	Koryazhma	2010
OJSC Ilim Group	Exchange of scanning device and control system of PM-5.	Koryazhma	2010
OJSC Ilim Group	System of automatic control of pump aggregates of pumping station No.1 of lifting No.2.	Koryazhma	2010
LLC Nicol-pack imperial	Complex design of cardboard production plant: IDD (input distribution devices), RPCD (reactive power compensation devices), transformers, feeder switchboards of industrial equipment. Designing of MCC switchboards, instruments cabinet and DCS control system, MMD (switchboard of CM regulated drive) for cardboard production.	Uchaly, Bashkortostan	2010 – 2011
OJSC Ilim Group	APCS of transport and packing line. Sheet paper workshop PM-7.	Koryazhma	2012
JSC Mondi Syktyvkar	Restoring of machine of pallets packing into corospack stretch film and system of electric drive of transporters of new line folio.	Syktyvkar, Komi Republic	2012
Papcel a.s. for LLC Sukhonsky PPM	Reconstruction of power supply system, electric drive and APCS of PM and molded pulp plant of PM installed anew. Project, equipment supply, installation supervision, commissioning.	Vologda Region	2012
LLC Ecoliner	Reconstruction of multimotor electric drive of PM.	Voronezh	2012
OJSC Ilim Group	ACS gas control units.	Koryazhma	2013
OJSC Ilim Group	Replacing the ACS board machines 4.	Koryazhma	2013
JSC Mondi Syktyvkar	APCS. Line of dissolution of hardwood pulp.	Syktyvkar, Komi Republic	2013
JSC Mondi Syktyvkar	APCS of emergency stop system of BM21 installation.	Syktyvkar, Komi Republic	2013
CJSC Arhgiprobum	Quality Control System of PM-3.	Arkhangelsk	2013
I.P.E.C. international S.R.O.	Development of project documents for PM installation, power supply and APCS.	Belarus, Shklov	2013
OJSC Archangelsk pulp and paper mill	Development of controlled electric drive of drying machine of pulp production.	Arkhangelsk region, Novodvinsk	2013

ENTERPRISE	WORKS	CITY	YEAR
CJSC Smurfit Kappa	Inner power supply of fire-fighting pumping station.	Saint-Petersburg	2014
JSC Knauf Petroboard	Designing, delivery and installation of the automated information and measuring system of the technical accounting of electric energy, electric installation work, balancing and commissioning of system, including programming and training, dismantling and electric installation work, commissioning, guarantee tests	Saint-Petersburg	2014
LLC Gofro Technology	Development and manufacturing of sheet stacker control system.	Saint-Petersburg	2016
LLC Papcel SPB	Recovery and update of stock preparation line.	Saint-Petersburg	2016
OJSC Ilim Group	Recovery of conveyor galleries.	Koryazhma	2016
OJSC Ilim Group	Automated dispatch control system WPS-3.	Koryazhma	2016
OJSC Ilim Group	Enhancement of vibration monitoring system of stationary cardboard machine.	Koryazhma	2016
OJSC Ilim Group	Change of Auxiliary transformer 2 power circuit with the possibility of backup power switch Load-center substation 2 from cell No. 5 TPP-3,	Koryazhma	2016
OJSC Ilim Group, Koryazhma	Modernization of street lighting system with installation of supports and wallwasher fixtures.	Koryazhma	2016
OJSC Ilim Group, Koryazhma	Development of detail design for replacement of BOP switchgear 1 of CHPP 1.	Koryazhma	2016
OJSC Ilim Group	Development of detail design for relay protection of control wiring for reconstructed CHPP- CHPP-2 communication lines with installation of differential protection .	Koryazhma	2016
LLC Gofro Technology	DD development and production of corrugator.	Saint-Petersburg	2016
OJSC Ilim Group	Automation of settling tank pump stations No. 1, 2, 3.	Koryazhma	2016
OJSC Ilim Group	Development of DD for low voltage distribution switchboard, LCP, RCP.	Koryazhma	2016
OJSC Ilim Group	Optimization of cooking and bleaching process, bleached sulfate production shop.	Koryazhma	2016
JSC Knauf Petroboard (former Open Joint Stock Company St. Petersburg Cardboard and Printing Plant	Arrangement of data transmission channel from heat exchanger SPT961 Ilim-Gofra to the North of Automated system for power sources commercial accounting.	Kommunar (Leningrad Region)	2016
JSC Knauf Petroboard (former Open Joint Stock Company St. Petersburg Cardboard and Printing Plant	Sinamics S120 supply, mounting and parameterisation.	Kommunar (Leningrad Region)	2016
JSC Knauf Petroboard (former Open Joint Stock Company St. Petersburg Cardboard and Printing Plant	Automated system of thermal energy technical record-keeping (ASTER) JSC Knauf Petroboard.	Kommunar (Leningrad Region)	2016

ENTERPRISE	WORKS	CITY	YEAR
LLC SCA Hygiene Products Russia	Operations for recovery of combiner serviceability (winder) at the Phase 2 facility of construction factory for sanitary paper and associated articles.	Saint-Petersburg	2016
JSC Knauf Petroboard	Development of design documentation for Automated system of thermal energy technical record-keeping (ASTER) JSC Knauf Petroboard.	Kommunar (Leningrad Oblast)	2016
OJSC Group Ilim	General production shop video monitoring system for CPP, VPP, PPP and SBPP.	Koryazhma	2017
OJSC Group Ilim	Reconstruction of cardboard shop lighting network at CPP.	Koryazhma	2017
OJSC Group Ilim	Modernization of TS1.	Koryazhma	2017
OJSC Group Ilim	Modernization of rewinder 1-7 safety system.	Koryazhma	2017
OJSC Group Ilim	PMM2 drying section multi-motor drive board.	Koryazhma	2017
OJSC Group Ilim	VFD cabinet for offset press upper shaft.	Koryazhma	2017
CJSC International Paper	Modernization of (Design and detailed engineering), construction, installation and electrical works, commissioning including purchase and supply of materials and equipment.	Svetogorsk	2017
PJSC Sokolsky Pulp and Paper Mill	Detailed engineering on variable speed drive modernization for PMM-10 drying section, reel, calender and spreader with control system.	Vologda Region, Sokol	2017
PJSC Sokolsky Pulp and Paper Mill	Supply of complete variable speed drive for PMM-10 drying section, reel, calender and spreader with control system.	Vologda Region, Sokol	2017
CJSC International Paper	Modernization of electrical equipment for steam boiler EDUs at TPP-3.	Svetogorsk	2017
OJSC Nikol Pak Factory	0.4kV switchgear with soft starter.	Bashkortostan, Uchaly	2017
OJSC Nikol Pak Factory	Designing, supply, commissioning and supervision of headbox.	Bashkortostan, Uchaly	2017
CJSC International Paper	Work package on correction of relay protection setpoints for 6 and 10kV connections of power distribution grid.	Svetogorsk	2017
LLC Corrugated Technology	ET200SP software setup for sheet stacker.	Kropotkin, Krasnodar Territory	2017
LLC YuzhUralKarton	S7-300 PLC software setup for FAVALESSA sheet stacker.	Korkino, Chelyabinsk Region	2017
CJSC International Paper	Inspection of 0.4kV switchgear substation.	Svetogorsk	2017
CJSC International Paper	Inspection of TP-87 boards and busbar system.	Svetogorsk	2017
CJSC International Paper	Inspection of TP102 boards and busbar system.	Svetogorsk	2017
CJSC International Paper	Manufacturing and supply of well and pipeline with documentation for process drains underground sewerage line to Customer.	Svetogorsk	2017
LLC AVEK PROM	Commissioning works on modernization PMM4 rewinder at the Saint Petersburg paper mill, branch of Goznak.	Saint-Petersburg	2017

# CEMENT & GLASS



ENTERPRISE	WORKS	CITY	YEAR
LLC Tyazhprom-elektroproekt EK for OJSC Magnitogorsk cement-refractory plant	Fifth process line of clinker production.	Magnitogorsk	2007 – 2008
LLC Tyazhprom-elektroproekt EK for OJSC Magnitogorsk cement-refractory plant	Reconstruction of substation No. 52 35/6 kV. Reconstruction of substation No. 36 110/35/10 . Electrical section. Working project. Furnace No.5. Power electric equipment. Electric lighting.	Magnitogorsk	2007 – 2008
OJSC Krasnoyarsk cement	Set of transformer substation Furnace No.5 Set of transformer substation-KE- 1000/1, 1x1000 kVA, 6/0.4 kV.	Krasnoyarsk	2008
OJSC Krasnoyarsk cement	High voltage switchgear SiemensSimosec of 52 cells. Operating power device.	Krasnoyarsk	2008
OJSC Polotsk-steklovolokno	Compressor station.Modernization of control and power supply by compressed air production at compressor station of the plant.	Polotsk, Belarus	2008
OJSC Polotsk-steklovolokno	Supply of complete automated system of compressor No. 3.	Polotsk, Belarus	2013
IBAU Hamburg Ingenieurgesellschaft Industriebau mbH	Automated control system of equipment for pneumatic transportation using IBAU pump.	Hamburg	2013 – 2014
Loesche GmbH	Development of power supply system and Automatic process control system for lime grinding	Kazakhstan	2015
Loesche GmbH for JSC Iskitimcement	Systems of power supply, monitoring and automatic control of complete mill.	Novosibirsk Region	2015
Cement-Beton-M	Supply of electrical equipment, mounting, commissioning works.	Aktau, Kazakhstan	2016
IBAU HAMBURG Ingenieurgesellschaft Industriebau GmbH for Lipetsk Cement Plant	Control system for IBAU concrete silos No. 9-16 equipment, contract supervision and adjustment works for control system.	Lipetsk	2016



# MACHINERY



ENTERPRISE	WORKS	CITY	YEAR
Machine-building concern JSC Ormeto-Yumz, PJSC Uralmash	Trolley transport vehicle (control box, control panel).	Orsk	2008
Machine-building concern JSC Ormeto-Yumz, PJSC Uralmash	Control panel, control panels of the car dump truck, cabinet terminal.	Orsk	2008
MK Uralmash, OJSC Magnitogorsk metallurgical combine	Oxygen-converter shop. Electric equipment NKU and ACS hydraulic swing mechanisms CCM № 1 - 4 KKTs MMK.	Ekaterinburg	2008
JSC Plant for the Repair of Mining and Processing Equipment	ACS heating of furnaces KTO MSC.	Kostamuksha	2008
Volkswagen Group Rus	Installation of a leak test of vehicles, the delivery of equipment, installation, commissioning.	Kaluga	2008
Stoll Electro for Volkswagen Group Rus	Installation of a leak test of vehicles: the delivery of equipment, installation and commissioning.	Kaluga	2008-2009
LLC Hyundai Motor CIS	Control cabinets sewer pumping stations with dispatching via the GSM channel, the construction of an additional module with an area of 96 m <sup>2</sup> .	Saint-Petersburg	2009
JSC Avtoframos, Renault Russia	The system for ensuring the reliability of bolted connections, the control system of nutrunners based on the controller Siemens in the assembly shop.	Moscow	2009
OJSC Power machines	Automation of monitoring system of machine tool population.	St. Petersburg	2010
JSC ZIO Podolsky Machine Building Plant	Development, delivery, installation and commissioning of the automated control system for the steam generator within design boundaries.	Moscow region	2011
OJSC Power Machines, plant Reostat	Delivery of the complete transformer substation KTP-112 KTP-KE-1600/2, 2x1600kVA, 10 / 0.4 kV, KTP-001 (002-004).	Saint-Petersburg	2012
OJSC Power Machines, plant Reostat	Transfer of the laboratory for periodic testing.	Saint-Petersburg	2012
OJSC Power Machines, plant Electrosila	Creation of the automated control system of a full-scale steam-turbine stand.	Saint-Petersburg	2012
OJSC Energomash	Designing, manufacturing and delivery of exciters of the synchronous motor KVsdOC-RA-36-400-UHL4.	Chudovo	2012
JSC Volgograd-neftemash	Technical re-equipment of the thermal furnace.	Volgograd	2012
JSC Volgograd-neftemash	Technical re-equipment of the gas pipeline.	Volgograd	2012

ENTERPRISE	WORKS	CITY	YEAR
OJSC Volzhsky Pipe Plant	Technical re-equipment heating and drying stands tundish and steel wool in the EAFP.	Volgograd region, Volzhsky	2012
OJSC Power Machines, plant Electrosila	Modernization of the complex test bench for cylinders of steam, gas turbines, type ETPN-2.	Saint-Petersburg	2013
OJSC Power Machines, CHP-17	Making changes to the PD of differential protection of tires.	Saint-Petersburg	2013
OJSC Power Machines, CHP-17	Proof of RD and PD of external power supply of technological connection in 110kV RU of PS 330 / 110kV.	Saint-Petersburg	2013
TKZ Krasny Kotelshchik	Modernization of automated informative electric power accounting system.	The Rostov region, Taganrog	2013
TKZ Krasny Kotelshchik	Creation of the automated system of the technological account of the electric power.	The Rostov region, Taganrog	2013
OJSC Volgogradnefte-mash	Modernization of heat-treating furnace No. 53908 and modernization of gas pipeline No. 242051 .	Volgograd	2014
MK Uralmashplant	Construction of two bell-type furnaces in the shop No. 39/3.	Ekaterinburg, Sverdlovsk region	2014
OJSC Power Machines, CHP-17	Development of the project on the test bench of pumps and units of the MNU (oil-pressure unit) of hydroturbines.	Saint-Petersburg	2014
JSC AEM-technologies, JSC Petrozavodsk-mash	Installation of remote current and voltage transformers 220 kV, replacement of the sectional oil circuit breaker 220 kV with SF6 circuit breaker at PS-18 220/10/10 kV with connection to the existing system of relay protection and automation devices PS-18.	Petrozavodsk	2014
OJSC Petrozavodsk-mash	Modernization of the workshop gas pipeline.	St. Petersburg	2015
JSC Atom mash	Modernization of the furnace gas chamber.	Volgodonsk	2015
JSC AEM-technologies, JSC Petrozavodsk-mash	Modernization LMS furnace.	Petrozavodsk	2015
JSC AEM-technologies, JSC Petrozavodsk-mash	Technical re-equipment of a thermal furnace P 21048.	Petrozavodsk	2015
JSC AEM-technologies, JSC Petrozavodsk-mash	Modernization of the DLC furnace.	Petrozavodsk	2015
LLC NPP PPT	Design, delivery and commissioning of the system of control, regulation, protection and automation of the type SURZA-RA-D11-8 UHL3.1.	Snezhinsk, Chelyabinsk region	2015
LLC NPP PPT	Control system relay protection and automation SUR ZA-RA-D16-8-UHL4.	Snezhinsk, Chelyabinsk region	2015
LLC NPP PPT	Control system relay protection and automation SUR ZA-RA-D11-8-UHL4.	Snezhinsk, Chelyabinsk region	2015
LLC TTS LNK	Design engineering on tehcnical upgrade of conveyors of apatite concentrate drying sections 1-6.	Saint-Petersburg	2017
Rud Rusland Conveyors and System GmbH	Control system and power supply for Ammofos vertical bucket elevator.	Kingisepp	2017
Rud Rusland Conveyors and System GmbH	Control system and power supply for PT104, PT108 elevators.	Novomoskovsk	2017
Rud Rusland Conveyors and System GmbH	Control system and power supply for PT-101 belt conveyor.	Novomoskovsk	2017



# SHIP BUILDING



ENTERPRISE	WORKS	CITY	YEAR
Ministry Of Industry And Trade Of the Russian Federation	Research and development works Creation of multifunction ship shaft-driven generator installations on the basis of frequency convertors.	Russia	2014
Ministry Of Industry And Trade Of the Russian Federation	Research and development works Development of process of synchronous loading and unloading of condensed natural gas, creation of automated compressor complex for safety system of hauling operations at sea terminals in arctic conditions.	Russia	2014
Ministry of Industry and Trade of the Russian Federation	Experimental design work Development of technology for safe loading and unloading of liquefied natural gas, creation of an automated compressor complex for the system for ensuring the safety of cargo operations at sea terminals in arctic conditions.	Saint-Petersburg	2014
Ministry of Industry and Trade of the Russian Federation	Development of technology and creation of a prototype of a ship power plant on liquefied natural gas for equipping inland and mixed vessels.	Saint-Petersburg	2014
Ministry of Industry and Trade of the Russian Federation	Research work Development of information and methodological materials for energy saving and improving the energy efficiency of new innovative projects and programs for the development of shipbuilding.	Saint-Petersburg	2014
Ministry of Industry and Trade of the Russian Federation	The state contract 14411.1879999.09.045 Development of technology and creation of a prototype of a floating power unit for the formation of tidal (flowing) power plants and their operation in various regions of Russia.	Saint-Petersburg	2014
Ministry of Industry and Trade of the Russian Federation	The state contract 14411.1879999.09.030 Development of electron-nanobiocidal low-cost technology and equipment for deep cleaning of liquid wastes of gas-oil producing offshore platforms from oil, mineral and bio-contamination.	Saint-Petersburg	2014
Ministry of Industry and Trade of the Russian Federation	Development of technologies for the creation of off-grid turbo-electric generators with a capacity of up to 10 MW.	Saint-Petersburg	2015
Ministry of Industry and Trade of the Russian Federation	Part of the development engineering work Development of the concept of TSU options, electrical system and automation system and control system of the TSU and the power plant as a whole for the conceptual design of the submersible power module.	Saint-Petersburg	2015
LLC Baltic Shipyard-Shipbuilding	Supply of transformers TP3-380 / 133, TPOL-10, 0.2S / 10P types: 600/5; 300/5; 150/5.	Saint-Petersburg	2015
Ministry of Industry and Trade of the Russian Federation	Automated control system for control, accounting and automation of dredging equipment (dredge).	Moscow	2016
LLC Baltic Plant-Shipbuilding	Supply of TSZM power transformers.	Saint-Petersburg	2017

ENTERPRISE	WORKS	CITY	YEAR
Ministry of Industry and Trade of Russia	Development of MSD Gas Power plant. Research and development works on process design and development of 2MW modular small-size direct-drive dual-fuel gas-turbine plant with marine approval and Gas Power Plant project title. In 2017 design and detailed engineering were performed based on this project.	Moscow	2017 - 2018
JSC Concern Okeanpribor	Development of Sleming-2 maritime power supply system . Part of research and development work on development of maritime power supply system based on 2 dual-fuel direct-drive gas-turbine power stations and electric motion system with Sleming-2-EK title. In 2017 pre-project inspection, calculations, design and detailed engineering were performed based on this project.	Saint-Petersburg	2017-2019



# OTHER INDUSTRIES



ENTERPRISE	WORKS	CITY	YEAR
<b>MUNICIPAL SERVICES</b>			
OJSC Baltstroysevis for OJSC Lenenergo	Power supply in the Attorney Office building of Leningrad region.	St. Petersburg	2007 – 2008
OJSC Baltstroysevis for OJSC Lenenergo. CJSC Okstroy	Power supply of new residential house of CJSC Okstroy.	St. Petersburg	2007 – 2008
LLC Tyumen Vodokanal	Reconstruction of pump station of 2nd lifting device of Metelevsky water intake of Tyumen city and station of 2nd lifting device of Velizhansky water intake of Tyumen city. Process RP-6 kV. Local monitoring system based on APCS technical means. Electrical section. Working documents.	Tyumen	2008
Severodvinsk Municipal Unitary Enterprise Housing and Public Utilities	Development and turn-key implementation of pump aggregates control system at upthrust station of cold water supply in the domestic house. The control system is implemented at the basis of Micromaster 440 frequency converter and makes it possible to keep constant pressure in pumping main by switching on & off of pumps of upthrust station consisting of two pumps, and stepless control of the pumps rotational speed depending on the level of water consumption.	Arkhangelsk region, Severodvinsk	2009
GK Olympstroy	Water intake at Psou river. Sets of transformer substations in reinforced concrete casing with dry-type transformers in earthquake-proof version.	Krasnaya Polyana, Sochi	2009 – 2010
LLC Vega-service. Municipal Unitary Enterprise Vodokanal.	Reconstruction of treatment facilities complex.	Gatchina	2014
OJSC Barnaul Vodokanal	APCS SPS-14.	Barnaul	2016
LLC Vostok	DD updating, state expertise review, DD development and turnkey construction of treatment facilities Fyodorovskoye 10000 m3/day.	Saint Petersburg	2016
Tosnensky District Administration	Development of design documents and detail design, state expertise review of manifold system.	Tosno	2016
LLC Barnaul Vodokanal	Detailed engineering for automation of sewerage pump station No.14 control system with integration into existing dispatch system as a part of installation of low-voltage variable frequency drives (VFD) and automation of sewerage pump stations.	Barnaul	2016-2017
<b>WOOD INDUSTRY</b>			
OJSC Lesplitinvest	APCS of power supply of boiler-house.	St. Petersburg	2012
LLC KomiDrevProm	Modernization of main conveyer of hot press for particle board manufacturing.	Syktyvkar, Komi Republic	2012

ENTERPRISE	WORKS	CITY	YEAR
LLC Velsky Woodworking Plant	Turn-key building of new log sectioning plant of 320 thousand cub. m per year productive capacity by project developed by OJSC Archgiprodev project organization.	Velsk, Arkhangelsk region	2014 – 2015
JSC Lesplitinvest	General design engineer. Construction of sawmilling workshop with drying complex.	Priozersk	2015
NJSC SVEZA Manturovo	Automatic glue supply system for glue roller model SV 4/350 - 1800 - OSAMA TECHNOLOGIES.	Manturovo	2016
LLC LPK Sever	Electric mains mounting at the facility Wood pellets production shop.	Arkhangelsk Region	2016
NJSC SVEZA Kostroma	Manufacturing, supply and installation and construction, and commissioning works performance for automatic system of bale of plywood accounting at plywood layup station of Raute firm.	Kostroma	2016
LLC LPK Sever	Automatic control system for makeup pump station of boiler house .	Velsk	2016
DIEFFENBACHER GMBH Maschinen und Anlagenbau for LLC STOD	Electrical Work.	Torzhok, Tver	2016

#### AGRICULTURE

LLC South Siberia	Detailed design of automated control system for water circulation circuits. Supply of equipment and materials on the basis of and in complete accordance with design engineering documentation developed by Contractor and approved for construction by Customer. Commissioning works on equipment on the basis and in the scope of design engineering documentation developed by Contractor.	Barnaul	2016 – 2017
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#### PHARMACEUTICS

LLC Novartis Neva	General design engineer. Construction of scientific and production complex on pharmaceuticals development and manufacturing.	Saint-Petersburg	2015
LLC Novartis Neva	Gas analyzers system for research and production complex on drugs production and development.	Saint-Petersburg	2016

#### CONSTRUCTION

LLC GSM-Trest No. 7	Integration of local control system for refrigerating station with temperature control system.	Perm	2016
LLC Capital Construction Industry	Interior works in office rooms for siting of OJSC Gazprom departments and affiliates.	Saint-Petersburg	2017

#### FOOD

Chocolate Factory	Reconstruction of Twixels line at BaseTower ingredients preparation area of.	Moscow region, Stupino-1	2014
Chocolate Factory	Reconstruction of Mars confectionery production facilities – Assembly. – Supply of electrical products. – Works, equipment delivery. Street lighting of the factory territory. – Electrical mounting of sewerage pump stations (SPS-2,3,4). – Works on optimization of palletizing zone working space.	Moscow region, Stupino-1	2015
LLC United Heineken Brewery	Delivery of equipment.	Nizhny Novgorod	2015
LLC United Heineken Brewery	Design, supply, electrical installation and commissioning.	Nizhny Novgorod	2015
LLC Heineken Russia	CO2 concentration control and alarm system, design, supply, wiring works and commissioning.	Khabarovsk	2016
LLC Ug Sibiri	Water recycling circuits APCs.	Barnaul	2016

ENTERPRISE	WORKS	CITY	YEAR
LLC Greenhouse Facility Polyarnye Zori	Development of DD for LLC Greenhouse Facility Polyarnye Zori external power supply.	Murmansk	2016
LLC Heineken Russia	Ventilation system, design, supply, electric and commissioning works.	Sterlitamak	2016
LLC Heineken Russia	Palletizing machine control system, design, supply, electric and commissioning works.	Kaliningrad	2016
LLC Heineken Russia	CO2 concentration control and alarm system, design, supply, wiring works and commissioning.	Irkutsk	2016
LLC Heineken Russia	CO2 concentration control and alarm system, design, supply, wiring works and commissioning.	Sterlitamak	2016
LLC Heineken Russia	CO2 concentration control and alarm system, design, supply, wiring works and commissioning.	Kaliningrad	2016
LLC Heineken Russia	CO2 concentration control and alarm system, design, supply, wiring works and commissioning.	Ekaterinburg	2016
LLC Heineken Russia	Control panel replacement.	Saint-Petersburg	2016
LLC United Breweries Heineken	CO2 system deinstallation.	Kaliningrad	2017
LLC United Breweries Heineken	CO2 concentration monitoring and alarm system, Khabarovsk.	Khabarovsk	2017
CJSC BAT-SPB (British American Tobacco - Russia)	Construction and installation works on Customer's site Finishing works Installation and repair of utility systems and equipment.	Saint-Petersburg	2017
LLC Perfetti Van Melle	Supply and installation of 5m3 accumulative tank in accordance with Customer's requirements.	Saint-Petersburg	2017
LLC Fazer	Modernization of asynchronous motors.	Saint-Petersburg	2017
LLC Belgrankorm-Veliky Novgorod (Yasnye Zori)	Modernization of asynchronous motors.	Velikiy Novgorod	2017
LLC Food Ingredients (Efko)	Modernization of asynchronous motors.	Taman	2017
United Breweries Heineken (LLC)	On-site specialist consulting services on transportation of CO2 concentration monitoring and alarm system.	Nizhny Novgorod	2017
Coca-Cola HBC Russia LLC	Plant automation and dispatch system.	Saint Petersburg	2017
Coca-Cola HBC Russia LLC	Boiler house automation and dispatch system.	Saint Petersburg	2017
PepsiCo Russia	Projects on water treatment / Reversal remineralization of treated water.	Saint Petersburg	2017
PepsiCo Russia	Modernization of production lines.	Saint Petersburg	2017
ZAO Philip Morris Izhora	Installation of power distribution panels in chiller room of technical support building #120 (for asynchronous motor control). Modernization of asynchronous motors.	Saint Petersburg Branch	2017



ENTERPRISE	WORKS	CITY	YEAR
<b>OTHER INDUSTRIES</b>			
LLC Tyazhpromelek-troproekt Energy for the State Russian Museum	Performed project works of overhaul of electric lighting of garret room above small suite of rooms of Benois wing. Overhaul of exhibition electric lighting of rooms No. 83-86 of Benois wing. Project works of overhaul of electric lighting of rooms No. 35-37, 39, 40, 42 of ground floor of North-East wing of St. Michael's castle of Russian museum. Project works of overhaul of electric lighting of rooms No. 47-53 of 1st floor of North-West wing of St. Michael's castle of Russian museum. Project works of overhaul of electric lighting of rooms No. 308-313 of 2nd floor of Marble Palace of Russian museum. Working project of Lightning guard and external earthing of Rossi wing. Project works of overhaul of electric lighting of graphic arts restoration workshop (rooms No. 32, 36, 37) of 2nd floor of South-West wing of St. Michael's castle.	Saint-Petersburg	2005 – 2008
Procter & Gamble Co, Petersburg Products International OJSC	Performance of set of project and building and installation works on construction of SIS enclosed zone of the warehouse territory.	Saint-Petersburg	2014
LLC ARM Vega	Development of project and working documents on IOS sections (Data of engineering equipment, of net engineering facilities networks, list of engineering and technical measures, contents of technical solutions).	Saint-Petersburg	2014
CJSC Centrgazstroy	CTS-CE-2000/2.	Murmansk	2016
LLC Zeppelin PS Rus	DD development for DPP for the needs of LLC Egger Drevprodukt Gagarin.	Moscow	2016
LLC Infnit Group	System for additional cooling of internal water circuit of Weldac induction unit for electric-welded pipes heating, 1700/1500, SNG6 unit for weld double heat treatment and hydroplant of line preparation section at Electric-Weld Pipe Workshop No. 3.	Moscow	2016
JSC SPNZ	Complex control system for plenum and plenum-exhaust systems.	Syzran	2016
JSC Diversified Production Company KRZ	SW update for drive control system of cardboard machine CDM3.	Ryazan	2016
CJSC Centrgazstroy	CTS-CE-2000/2.	Murmansk	2016
OJSC Concern Granit-Electron	Recovery of production and water pipeline pump station for fire-protection.	Saint-Petersburg	2016
CJSC Kalugin	Automated control system and instrumentation for TM drive of BF10 Kalugin hot stove No35.	Ekaterinburg	2017
LLC Portenergo	Modernization of LHCG transshipment complex.	Saint-Petersburg	2017
LLC Port Vysotsky	Modernization of lighting system.	Vysotsk	2017





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