

REFERENCE LIST of "ERA-CROSS" Group of Companies

(List of significant objects)

OIL & GAS PRODUCTION AND TRANSPORTATION

1. LUKOIL Oil Company, RPK-Vysotsk LUKOIL-II. Leningrad Region, RPK-Vysotsk LUKOIL-II Oil Distribution and Transfer Terminal. Maintenance and metrological servicing of automated process control systems, instruments and automatic fire extinguishing systems at RPK-Vysotsk LUKOIL-II Oil Distribution and Transfer Terminal.



2. LUKOIL Oil Company, LUKOIL Company, Varandeykiy Company, Varandey Oil Export Terminal (fixed offshore ice-resistant off-loading terminal). Maintenance and metrological servicing of automated process control systems, instruments, automatic fire extinguishing and alarm systems at Varandey Oil Export Terminal.



3. LUKOIL Oil Company, Astrakhan Region, city of Astrakhan, Caspian Sea. Development of Vladimir Filanovsky Field infrastructure, installation of automated process control systems and instruments, commissioning of automated process control systems (low level) and metrological assurance for instruments.



4. GAZPROM, Yamalo-Nenets Autonomous Okrug, Bovanenkovo Gas Field, Baydaratskaya Compressor Station Project as part of the Bovanenkovo–Ukhta gas pipeline system construction, ERA-CROSS Group of Companies. ERA-CROSS Group of Companies carried out electrical installation of power cables, 110/10 kV power distribution device, lighting system cables, and electric heating system as well as installation and setup of instruments, alarm, communication and video surveillance systems.

5. «RR – offshore oil and gas projects» (CNRG Group), Lukoil-Inform, Emerson, ice-resistant stationary platforms – 1,2 for the oil field, named after Y. Korchagin, Astrakhan.

LSP-1, (complexes: drill rig, process operating, energy and also shipboard equipment). Development of technical documentation for APCS. Development of engineering design documentation for internal switchboard with automatic circuit breaker, switchboard4, switchboard2, switchboard3 of electric power supply system of APCS.



Supply of panel-mounted products for power supply systems, supply of electrical installation items.

Complex of installation and commissioning works on APCS and Instrumentation equipment.

LSP-2, (stationary platform with living quarter). Development of engineering design documentation for internal switchboard with automatic circuit breaker, switchboard4, switchboard2, switchboard3 of electric power supply system of APCS.

Supply of panel-mounted products for power supply systems, supply of electrical installation items.

Complex of installation and commissioning works on APCS and Instrumentation equipment.

6. NK Lukoil, South-Khylchuyuskoe and Yareiyuskoe oil fields. Construction-installation works, electrical works, instrumentation, communication, security and fire alarm, electrical heat tracing, materials supply.

7. NK Lukoil and ConocoPhillips "North Territories" Group of Fields (the Nenets Autonomous District)

Construction-installation works in the project "Wellhead completion and location construction at the South-Khylchuyuskoe oil-field".

Construction-installation works in the project "Field Development, High-pressure pipeline, Wellhead completion at the Yareiyuskoe oil field".

8. "TOTAL Exploration Development Russia", (TOTAL E&P RUSSIA, France) Kharyaginskoe oil field.

Development of oil wells in remote pad NP1

Work complex on: temporary oil wells hook-up: design, supply, installation, adjustment of electrical power supply system, instrumentation and safety systems of the object.

Work complex on: reconstruction of ventilation systems in the laboratory and in Northern ECP Module. Design, supply, installation and adjustment of ventilation equipment and air conditioners.

Work complex on: designing, manufacturing, supply, installation and commissioning of instrumentation and electrical systems, systems of control and protection of high-pressure pipeline during pumping of associated petroleum gas to the oil formation.

Work complex on: procurement, supply, installation, commissioning of instrumentation systems and electric power supply to crude oil production pads.

Wellhead completion and location construction of 13, 14, 15, 16, 17, integration of these wells into existing complex of well pad 108 of Kharyaga oil field. Designing works, new panel of production wellhead hydraulic control, processing hook-up, automatization system, electric power supply system. Materials and equipment supply.

9. OJSC "AK Transnefteprodukt"

Work complex: installation of the system of leak detection points at the trunk product pipe-line Kirishi-St. Petersburg and ACS of the tank farm, line intermediate booster compression Krasny Bor.

Construction and installation works at the sea terminal facilities for handling of light petroleum products in the Primorsk commercial sea port, project "North".

10. OJSC "NK Rosneft" "Vingayakhinskoe oil field development".

Development of design documentation APCS CPF oil No. 2 of Vingayakhinskoe oil field TPND "Muravlenkovskneft".

11. OJSC "NK Rosneft", "Kholmogorskoe oil field development"

Design works: CPF No.1, booster compressor station, electro technical part, APCS, automatic fire fighting system, system of fire fighting automation and fire alarm system.

12. OJSC "NK Rosneft", "Urmanskoe oil field development"

Design works: development of working design in a part of APCS.

13. OJSC "NK Rosneft", "Krapivinskoe oil field development"

Design works: development of working design in a part of APCS CODAP.

14. CJSC "Samara-Nafta", Kazakovskoe oil field development,

Work complex: equipment and materials supply, construction-installation and commissioning works of electrical equipment of PLF "Kazakovskiy".

15. Company "Sakhalin Energy", Project Sakhalin-2, Yokogawa (Japan)

APCS. Translation of technical and design documentation. Authorization of application program software.

16. LUKOIL – LLC "Lukoil-inform": Construction-installation and commissioning works:

APCS and **Instrumentation** (equipment installation, cable trays installation, high voltage tests) for ice-resistant stationary platform, **Astrakhan, the Caspian sea.**

17. OJSC "NK Rosneft", Archangelsk, Work complex: construction-installation and commissioning works, supply of **Instrumentation** equipment.

18. TOTAL Timano-Pechora branch of a company "Total Exploration Development Russia": work complex: performed works on designing of electrical heat tracing system, delivery of materials and equipments: electro technical equipment, execution of installation and commissioning works.

19. GAZPROM, Company "Energy", Project Sakhalin-2, Yokogawa (Japan):

Front-end engineering and design: APCS. Translation of technical and design documentation. Authorization of application program software.

20. OJSC "Surgutneftegaz", Gas treatment plant, Surgut, Tyumen region: front-end engineering and design: development of APCS, adjusting of software of GPF-1, GPF-2, GPF-3 and UI&O of gas processing plant.

21. LLC "PTK-Terminal", Saint-Petersburg, oil handling terminal "Ruchji", work complex: electrical installation and commissioning works on creation of industrial systems and electro technical part on a new-built station of oil-loading into road tank car.

22. LLC "Transneftstroy" ESPO-2: execution of construction-installation works:

East Siberia – Pacific Ocean pipeline. Division Skovorodino – Koz'mino, execution of construction-installation and commissioning works on electrical power supply, protective electric lighting, automation and telemechanics.

23. LLC "Caspian energy projects": execution of construction-installation works: estuarial drilling platform ZHD-A with living quarters and connecting bridge in Contractual zone Cheleken, Turkmenistan, positioning control system of the crane Volgar'.

24. LLC "Global-Neftegazservice": execution of construction-installation works: works on technical retooling and modernization of offshore ice-resistant stationary platform named after Y. Korchagin in part of systems of operation-technological and drilling complexes. Works on technical retooling and modernization of offshore ice-resistant stationary platform named after Y. Korchagin, second stage in a part of modernization of ventilation, air conditioning and other systems.

25. OJSC "Lengazpetsstroy": "Elizavetinskaya" compressor station, 1st and 2nd stages: execution of construction-installation works within construction of the North European Gas Pipeline, division Gryazovets – Vyborg. Erection electrician works.

26. OJSC "ElectroRadioAvtomatika" Vyborg branch: Work complex on electrical installation works on platforms, order №106 and №107.

27. LLC "Emerson", Moscow: Construction-installation works performance: works on installation and commissioning of APCS equipment, Instrumentation, FGDS, energy complex, systems of volumetric

gas extinguishing and flegmentation, systems of water foam fire extinguishing and emergency shutdown systems for offshore ice-resistant stationary platform №1 at oil field named after Y. Korchagin, the Caspian sea, Astrakhan.

28. LLC "STG Engineering": Construction-installation works performance: installation works of Instrumentation systems on SKID equipment of ice-resistant platform №1, Astrakhan, object OJSC "Astrakhanskiy Korabel".

29. LLC "UK Sigma" Transneft LLC "Baltic oil trunk pipelines": Construction-installation works performance: work complex on **automation system for commercial measurement of power consumption** with elements of electrical facilities management of enterprises AK Transneft.

30. OJSC "Slavneft - Yaroslavnefteorgsintez", Yaroslavl: Work complex: design works on creation of **APCS** of unit "Parizom"; changing of **Instrumentation**, creation of DCS and ESD of unit sections C-400 and C-500 of the unit KM-2; works on creation of electric power supply design and **APCS** of complex of constructions and crude oil tanks; construction-installation and commissioning works of Instrumentation equipment at units "Wisbreking" and "Hydrocrecing"; Work complex on **APCS** creation at gasoline blending unit; commissioning of power electrical equipment.

31. OJSC "Slavneft - Megionneftegaz", Megion, Khanty-Mansiysk Autonomous District, Yugra: Work complex on creation of **APCS** at booster pump station of Chistinnogo oil fields, I and II stages.

32. OJSC "AK Transnefteprodukt", product pipeline "Kirishi-Saint-Petersburg": Installation and commissioning works: Installation of leak detection systems on main product pipelines.

33. LUKOIL LLC "RPK-Vysotsk" "LUKOIL-II", Leningrad region: Work complex: materials and equipment supply, installation and commissioning works of automation systems. Manufacturing and supply of installation products and panel-mounted products, manufactured by OJSC "LOZ-SZMA".

OIL REFINING and PETROCHEMISTRY

1. Neftegazokhimicheskie Tekhnologii Group of Companies, Antipinsky Oil Refinery, city of Tyumen. Third phase of construction. Electrical installation, setting-to-work and commissioning of diesel hydrotreaters and elemental sulfur production units. Installation of 6 transformer substations and generator switchgears — 10/0.4 kV; transformers are of dry type. Transformer power — 1250–1600 kVA. Operations are performed on a turnkey basis and include: electrical installation, setting-to-work and commissioning of 6 transformer substations and generator switchgears, ABB cells, 40 high-voltage cells, 36 low-voltage cells, installation of control, fire alarm, lighting, and grounding systems, in-site power and control networks. Current project.

2. Rosneft Oil Company, Orenburgneft, city of Buzuluk, Orenburg Region. Commercial propane, commercial butane, and stable natural gasoline storage and export railway terminal (1st stage of construction). Electrical installation, installation of instruments, communication and alarm systems, individual testing.

3. Novatek, Yamal LNG Project, the company carried out the construction of 35/6 kV and 6/35 kV electrical substations on a turnkey basis.



4. **Joint Project of SIBUR Holding and SolVin (Belgia), RusVynil, Nizhny Novgorod Region, Kstovsky District** August 2013 – September 2014 ERA-CROSS Group of Companies carried out electrical installation, setting-to-work and commissioning of automation systems, instruments as well as power supply, electrical heating, and lighting systems in auxiliary support areas of PVC and VCM production units. The design annual production capacity of the plant is 330,000 tons of PVC and 225,000 tons of caustic soda.

5. **SIBUR Holding, Tobolsk-Polimer Project** (city of Tobolsk). Era-Cross Engineering and Sevzapmontazhavtomatika Trust both making part of ERA-CROSS Group of Companies participated in the most large-scale and innovative project of SIBUR Holding, the Tobolsk-Polymer Project in the city of Tobolsk at the polypropylene production plant with annual capacity of 500,000 tons. The company carried out electrical installation, setting-to-work and commissioning of power supply, electrical heating, and polypropylene production process monitoring and control systems at the propane dehydrogenation unit. The official ceremony of the world's largest polypropylene production plant launch was held on October 15, 2013 and was attended by the President of the Russian Federation Vladimir Putin. Tobolsk-Polymer is the most large-scale investment project in the Russian petrochemical industry.



6. **Rosneft Oil Company, Novokuibyshevsk Oil Refinery, Samara Region. Furnace block** with a heat recovery unit for the L-35/11-300 plant. Completed operations: power supply plan elaboration (power supply equipment, outdoor cable lines, electric lighting), automated process control system design, low voltage package modules (control station boards) delivery.

7. **Rosneft Oil Company, Saratov Oil Refinery, Saratov Region. Pentane-hexane fractions isomerization unit** and off-plant facilities. Electrical installation, setting-to-work and commissioning, individual functional testing, commissioning of the facilities, gas flare, gas flare pipeline, metal cable trays, lighting, interconnections.

8. **Rosneft Oil Company, Arkhangelsk Region, Privodino station.** Completed operations: railway oil terminal construction, construction, installation, setting-to-work and commissioning, delivery of instruments and equipment.

9. **Zarubezhneft, Brod Oil Refinery, Republic of Serbia.** Development of design documentation for automated process control systems to reconstruct crude oil distillation unit (section 31), gasoline hydrotreatment unit (section 32) and liquid gas treatment unit (section 37), including mathematical, software, hardware, and organizational support. Designing and programming of the automated process control system for kerosene hydrotreating unit (section 34). Designing of control station board connection circuits and redesigning of electrical equipment schematic control circuits for sections 32, 37, and 34. Designing of control station board connection circuits and redesigning of electrical equipment schematic control circuits for section 31. Development of detailed documentation for on-site electrical systems. Designing of the automatic transfer switch for the uninterruptible power supply system of the automated process control system for sections 31, 32, and 37 at Brod Oil Refinery.

10. **SIBUR-Portenergo (Ust-Luga settlement, Leningrad Region).** Era-Cross Engineering and Sevzapmontazhavtomatika Trust both making part of ERA-CROSS Group of Companies participated in construction of the following SIBUR Holding and SIBUR-Portenergo facilities in the Commercial Sea Port of Ust-Luga, Leningrad Region: Monitoring and Automation Networks, Refrigerator Storage Tank E-7, Refrigerator Storage Tank E-8, Refrigerating Plant with Thermostating Unit, Low Pressure Gas Flare, Bulk Cargo Terminal, Rail Discharge Facility for Heavy Fuel Oil No. 2. Completed operations:

automated process control system construction; electrical installation works; automated process control system, emergency shutdown system, and automated operational dispatch management system integration; automated control system arrangement; automated dispatch power and in-site lighting monitoring and management system construction.

11. **Sibur-Neftekhim (town of Kstovo, Nizhny Novgorod region)** Era Cross Engineering and Sevzapmontazhavtomatika Trust both making part of ERA CROSS Group of Companies participated in construction of petrochemical plant facilities in the town of Kstovo for SIBUR Holding, Sibur-Neftekhim. Completed operations: designing, equipment supply, installation, setting-to-work and commissioning of metering and automation systems for LPG raw materials store facilities; integration of automated control systems at the air separation unit of shop 603.

12. **OJSC "LUKOIL-Ukhtaneftepererabotka", Ukhta:** Work complex: materials supply, installation works of Instrumentation systems of the unit GDS-850, including gas compressor unit of reformer. Construction-installation works on electrical heat tracing of equipment and pipelines at the unit GDS-850 (hydrodeparaffination of diesel fuel with block of lump sulfur getting), reformer unit, piperack for loading of dark-oil products. Retooling and modernization of AVT unit, construction-installation and commissioning works.

13. **LUKOIL – RPK – Vysotsk LUKOIL-II:** Work complex: at objects of premises and equipment of OJSC RPK-Vysotsk "LUKOIL-II" (Control hardware system, distribution transformer substation), full complex of works on reparation and profreinstatement of relay REF-542 in cubicle 10 kV (Commissioning work).

14. **OJSC "NK Rosneft", OJSC "Novokiybishevskiy Oil Refinery plant", Samara region.** Complex works: electric power supply design development (electric power equipment, external cable lines, electrical lighting), designing of APCS, supply of Low-voltage switch unit (power control board) of furnace block with waste-heat recovery assembly of the unit L-35\11-300.

15. **GC "Novotek":** Construction-installation works of electrotechnical equipment and lighting system on site, Complex on reloading and rectification of stable gas condensate and products of its processing with a capacity of 6,0 million tons \ per year in Commercial seaport in Ust-Luga of the Leningrad region. The works were performed together in a team with General Contractor OJSC "AK VNZM".

16. **Commercial seaport Ust-Luga:** Construction-installation works, complex of bulk liquid cargos, work complex for APCS construction of railroad overpass for unloading of reduced fuel oil №2. Work complex for construction of Automation system of supervisory monitoring and control of electric power supply and on-site lighting.

17. **OJSC "LUKOIL-Permnefteorgsintez", Perm,** Design work: Designing and providing APCS for isomerization unit L-35-8\300 B. Designing, DCS and ESD of furnace P-2 of the unit LG 24\7.

18. **OJSC "LUKOIL - Nizhegorodnefteorgsintez", JSC "NORSI", Nizhniy Novgorod:** Work complex on modernization of automation system of crude oil distillation unit. Supply of equipment, construction-installation and commissioning works on modernization of Instrumentation of the unit ABT-5.

19. **Yenisey. Usinsk. Unit of atmospheric distillation of oil:** carrying out of construction-installation works: block-modular boiler house. Installation of equipment and materials of Instrumentation and Electrical, forming part of the Unit.

20. **Tyumen oil company, CJSC "Ryazan RPC" Ryazan:** Work complex: Works performed on development of data sheets, preliminary specification of main project equipment, **Instrumentation**

equipment supply, electrical installation products, installation and commissioning of **Instrumentation** of units ABT-2 and TK-2, industrial catalysts units; APCS of block of hydro fining of raw material. Construction-installation works on **Instrumentation** of the unit AT-6 and complex of hydrogenic hydro fining VGO (high purification of oil).

21. **OJSC "Novokiybishevskiy oil refinery plant", Samara region.** Complex works: electric power supply design development (power electrical equipment, external \ cable lines, electrical lighting), designing of **APCS**, supply of Low-voltage switch unit (power control board) of furnace block with waste-heat recovery assembly of the unit L-35\11-300.

22. **OJSC "Promfinstroy" Saratov oil refinery plant:** Performance of complex of electrical installation, commissioning works, individual functioning testing, plant handover for operation at: "Izomerization unit of pentane-hexane fraction and site utilities, flare system, route for flare system, cable metal structures, lighting and interconnections".

23. **Turkmenbashi oil refinery, Turkmenia:** Carrying out of construction-installation works: erection-supervision and commissioning works at the unit ЭЖЮУ-ABT-2, designing of **APCS** and electro technical part of delayed coking unit Y3K – 2.

24. **LLC "Lukoil-Volgogradneftepererabotka", Volgograd:** Design works on creation of **APCS** of izomerization unit, including electro technical part of the project.

25. **CJSC "LUKOIL-Perm", "Severnaja Kozhva" – Terminal "Chikshino",** Work complex: **APCS** of interfiled oil pipeline "Severnaja Kozhva" – Terminal "Chikshino".

26. **OJSC "NK Rosneft", st. Privodino, Archangelsk region:** Work complex: infrastructure development of railway oil terminal, construction-installation and commissioning works, supply of **Instrumentation** equipment.

27. **OJSC "NK Rosneft", OJSC "Novokiybishevskiy oil refinery plant" Samara region.** Work complex: Complex works: electric power supply design development (power electrical equipment, external \ cable lines, electrical lighting), designing of **APCS**, supply of Low-voltage switch unit (power control board) of furnace block with waste-heat recovery assembly of the unit L-35\11-300.

28. **OJSC "Novokiybishevskiy oil refinery plant" Samara region:** Work complex: Complex works: electric power supply design development (power electrical equipment, external \ cable lines, electrical lighting), designing of **APCS**, supply of Low-voltage switch unit (power control board) of furnace block with waste-heat recovery assembly of the unit L-35\11-300.

29. **OJSC "Promfinstroy" Saratov oil refinery plant:** Performance of complex of electrical installation, commissioning works, individual functioning testing, plant handover for operation at: "Izomerization unit of pentane-hexane fraction and site utilities, flare system, route for flare system, cable metal structures, lighting and interconnections".

30. **SIBUR – OJSC "SIBUR-NEFTEKHIM", Nizhniy Novgorod:** Work complex: on systems of **Instrumentation** and automatization of raw material base of liquefied hydrogen gases, ACS of air separation block, workshop 603.

31. **SIBUR – Tobolsk-Polymer:** Performance of full complex of construction-installation, commissioning works, materials supply, designing: propane dehydration unit (PDU): construction of complex for polypropylene production with a capacity of 500 thousand tons per year.

32. **OJSC "TANEKO":** front-end engineering and design: development of design and working documentation on the base of equipment TeleFire for the project "Execution of work complex for creation and integration ASPZ objects of stage 1A1 of complex NP and NHZ", task description for switchboards development, their production and delivery; commissioning works of the second object

integrated level and upper level (central monitoring). Development and implementation of software of monitoring on the base of Web-technologies.

33. **OJSC "AK VNZM" Commercial seaport Ust-Luga:** Execution of construction-installation works on object "Complex for reloading and rectification of stable gas condensate and products of its processing with a capacity of 6.0 million tons per year in Commercial seaport Ust-Luga"; Processing unit of stable gas condensate or its mixture with sweet crude oil 6.0 million tons per year.

34. **OJSC "GIPROGASOCHISTKA":** front-end engineering and design: ASPZ of the 1st level of the first start-up complex: Work with source data and development of working documentation of marks PS, PT, KZh, KM and TM (for fire-alarm system and technology of fire-extinguishing) at objects of oil refinery plant OJSC "TANEKO" at the following units: "3200 – Amine recovery unit", "3300 – Sour waters stripping unit", "3400 – Sulphur recovery unit", Equipments, applicated to production project are MEDC, Inbal, Tyco, Spectrex (SharpEye).

35. **OJSC "Volgoneftekhimmontazh":** Carrying out of construction-installation works: Railway terminal of storage and offloading of PT, BT and SGB (1st stage of construction) OJSC Orenburgneft, settl. Tulpan. Erection electrician works, works on installation of Instrumentation, communication and signalization, individual tests performance.

36. **CJSC "Volgoneftekhimmontazh". Development of Yuzhno-Khulchuyuskoe and Yareiuskoe oil fields:** Work complex: Electrical lighting and power equipment, APCS, communication and signalization, electrical heat tracing.

37. **OJSC "Nizhnekamskneftekhim", Nizhnekamsk, Tatarstan:** Work complex: design works on creation of APCS of Polystyrol recovery unit OJSC NKNKh, I and II stages.

38. **OJSC "AK Transneft", Baltic pipeline system, I and II (+III) construction stages, Russia:** Work complex: supply, installation and commissioning of **Instrumentation** systems, electric, communication, fire and security alarm and CCTV monitoring of objects of oil loading port in Primorsk (tank farm, oil accounting system, boat landing, sewage treatment plant, administrative and household facilities, central dispatcher board, **ACPS**), oil booster station "Kirishi", telemechanics system of oil pipeline division Kirishi – Primorsk.

39. **OJSC "Mozyr oil refinery plant", Mozyr, Belorussia:** Installation and commissioning works: installation and commissioning works for **Instrumentation** systems of catalyst cracker unit OJSC "Mozyr oil refinery plant", including gas compressor unit; installation and commissioning works for **Instrumentation** systems of sulfur recovery unit and regeneration of MEA. Installation works for Instrumentation systems of integrated alkylolation plant, benzene hydro desulfurization unit, diesel fuel unit, isomerization unit. Electrical heat tracing on UI&O of isomerization unit. Electrical supply network, UI&O of hydrogen generation unit. Electrical supply network, UI&O of black oil fuel vacuum distillation unit. Changing of cables for external electric power supply with bringing to cable pipe racks PY -6 KB PTII-12, PTII-14.

40. **OJSC "Severorgsintez", Novy Urengoy:** design, development of applicative for APCS production YIIBC-100 and Commodity Park

41. **"Fluor Daniel Overseas, Inc."** Work complex: Project OJSC "Taneko" "Complex construction of oil refining and petrochemical plants in Nizhnekamsk". Work complex: conceptual design of controlling systems of processing units fire fighting and unit's ESD systems.

MINING AND METALLURGY

1. Novolipetsk Steel Works, Stoilensky Mining Complex, Belgorod region, city of Stary Oskol
Construction of substation and switchgear (10 kV / 0.4 kV). Package transformer substation 10/04. Transformer power – 340 MVA. Completed operations: installation of one 10 kV distribution station (18 cells), nine 10/0.4 kV dry transformers, two 6/0.4 indoor switchgears (46 cells), 10/0.4 kV package transformer substations with four transformers (30 cells). Installation, setting-to-work and commissioning of power supply, lighting, grounding, control, fire alarm and ventilation control systems. Installation of on-site power supply and process equipment control networks. Current project

2. Severstal – Balakovo Long Product Mill, Severstal, city of Balakovo, Saratov region, installation, setting-to-work and commissioning of automation equipment at the facility. Interconnection and assembling of Rittal power distribution cabinets using import components (intermediate relays, automatic circuit breakers, power supply units, controllers) by SIMENS company and domestically produced devices from leading companies: Elemer Research and Production Company, SPA Analitpribor State Corporation, city of Smolensk, Endress+Hauser, Germany Laying of control, optical and instrumentation cables at the following facilities: Steelmaking Shop, Emergency Water Tanks. Setting-to-work of automation systems based on industrial controller S7-300 by SIMENS company.



**Balakovo Long
Product**

3. Kamensk-Uralsky Metallurgical Works (KUMZ), city of Kamensk-Uralsky, Sverdlovsk region, installation of gas supply, power supply, lighting, water supply, heating, ventilation and automation systems as well as communication networks, fire alarm and fire extinguishing systems. Turnkey operations as part of the 6/0.4 kV modular two-transformer substation construction project (2 package transformer substations).

4. OJSC "Uralkaly", Berezniki potassium mine group, Berezniki, Perm province. BKRPU-4. Work complex: modernization of automation equipment, systems of control and management of the surface complex. BKRPU – 1,2,3,4. Work complex: development of Instrumentation automation equipment, level gages and chemical feed plant. BKRPU – 3. Work complex: modernization of Instrumentation equipment.

5. OJSC "Silvinit", OJSC "Solikamsky Magnesium Plant", Solikamsk. Work complex: development of design documentation for power electrical equipment, electrical lighting and APCS of "Tubular titanium production with a capacity of 5000 tpy. Metallurgical complex." Development of design documentation (TDA) of APCS for titanium tetrachloride treatment in the process area No. 7. Supply of materials and equipment, electric installation and commissioning works for systems of power electrical equipment, lighting, automation systems of separations ViD, processing, preparation of fixed mounts. Supply, construction-installation and commissioning works of Instrumentation, power electrical equipment and APCS of furnace KS-50.

6. AK "Alrosa", Yakutia: Design work for creation of APCS for engineering boiler house at "Aikhal" mine; Design work for creation of APCS of the surface stowing complex at the mine "Mir".

7. AK "Alrosa", Yakutia, Work complex: development of design and estimate documentation "System of control, signalization and liquid-fuel based boilers protection" in boiler house in the airport.

8. Poliarny. Udachinskiy GOK. Work complex: design development of APCS for engineering boiler houses, development of design and estimate documentation "Automated control system of heat supply station at industrial site". Engineering boiler houses. Power generated unit of open cut. **GOK at minefield "Yubileynaya".** Design work: on creation of ADCS, APCS of engineering boiler house at mine "Aikhal";

Design work: on installation of frequency-regulated drives at the beneficiation unit No. 14 at the "Aikhalsky mining and beneficiation complex"; Design works: on development of design and estimate documentation ACS Electro at beneficiation factory No. 3 "Mirninsky mining and beneficiation complex"; Design work: on creation of APCS for the surface stowing complex at the mine "Mir". Complex of equipments for Central Dispatch Service of underground mine "MIR". Installation of fire signaling in buildings, instrument rooms. Development of design and estimate documentation for closed switchgear-6kV at beneficiation factory No. 3. Supply of grinding mills to the mine "Mir". The mine "Mir" safety check valve. Supply: packaged switchgears – 6 kV (Switchgears from ZXO- type cells (gas-insulated) with REF542 plus –type terminals). Transformer substations: KRU-0.4 kV for transformer substation ТП-2x2000 kVA, dry power transformer 6/0.4-0.23 kV. Supply of switchboards and cabinets.

Design works: reconstruction of inventory management oil tank farm.

Mine "Aikhal", safety check valve. Supervision installation and supervision commissioning of power equipment and ACS, commissioning works of upper level of ACS MShR. Instruction of operating personnel. Design works in Lensk. Central heating boiler house. Change-over to gas fuel. Development of working documentation for creation of APCS.

Design works: ACS of electric power supply. Development of design and working documentation for the object OJSC "Severalmaz". Start-up complex with a capacity of 4 million tpy.

8. OK "RUSAL", LLC "Khakasskiy Aluminium Plant" (Sayanogorsk, Republic of Khakassia)

Work complex: materials supply, installation of APCS and APGS.

9. LLC "Timan-Engineering" (Sosnogorsk alumina refinery, Komi Republic)

Development of automated power consumption measurement system, FS (project) of Sosnogorsk alumina refinery. OJSC "RUSAL VAMI" (Alumina refinery "Friguia", Friguia, Republic of Guinea).

Complex of fire fighting systems. Stage TEO project – Basic engineering.

"Akron" Group

CJSC "North-Western Phosphoric company" (Moscow) – mining and processing complex "Oleny Ruchi" deposit. Integrated management system. Development of conception mining and processing complex "Oleny Ruchi" deposit. OP apatite-nephelinic ores with a capacity of 6 million tpy with a tailing facility, recycling water supply systems, industrial water supply and purification of mine waters. Development of feasibility study and technical assignment (project) ACS for subsystems: automated power consumption measurement system, automated control system of electric power supply, automated control of engineering systems;

10. LLC "Trust-2", "Oleny Ruchi", ore-dressing and processing enterprise, Kirovsk, Murmansk region: Work complex: installation and commissioning of Instrumentation at construction objects of ore-dressing and processing enterprise with on-site and out-site utility networks and services forming the 1st stage of construction.

11. CJSC "North-Western Phosphoric Company": front end engineering and design: development of section of stage "P" "Nets and systems", including: communication networks; integrated security control system at site (object); CCTV.

12. GMK "Norilsk Nikel" OJSC "Kombinat Severonikel", Monchegorsk

Work complex: procurement, design, installation, development of applicated software, commissioning and putting into operation of water heating boiler, heat electric generation plant, oxygen air blasting section, sulfuric acid section, fluid bed furnace of the copper smelting plant, nickel

electrolysis area, copper electrolysis area, carbonyl nickel plant, oxygen air blasting section, automated power consumption measurement system.

13. OJSC "Kolskaya GMK", Monchegorsk .Work complex: design, supply, installation and commissioning of Instrumentation. TsEM Processing of copper bearing materials. Installation of furnaces KS in metallurgical work shop. "Lixiviating area and electrowinning of copper calcine""TsEN-1. PU for getting of cobalt salts" SKTs. Enlargement of unit for flushed acid from zinc. Refinery work shop. APCS. Unifying of software and hardware tools, adaptation of software.

APCS of regenerator bundles of oxygen plants KA-15 and AKT-30, and also fluid bed furnace of copper calcine. Work complex: design, supply, installation, commissioning and personnel training "Corporate video conference system" for OJSC "Kolskaya GMK".

14. AO "GMK Pechenganickel", Zapoliarny.

Work complex: design, supply, installation, commissioning of corporate video conference system for "Pechenganickel". Training of Client's personnel.

15. CJSC "Severgal", Cherepovets, Vologda region.

Work complex: electrical-installation and commissioning works at annealing furnace DREVER of automobile sheet galvanization lines.

16. LLC "NITIOI group". LLC "Usolie-Siberian Silicone", Irkutsk region

Work complex: polycrystalline silicon production at site Usoliehimprom, creation of upper level APCS of production processes polycrystalline silicon. Development of technical assessment, design and working documentation. Equipment supply APCS ПКК-3000, supply of field instrumentation equipment, construction-installation and commissioning works.

17. OJSC "Polimetall". LLC "Albazino resources" (Khabarovsk territory),

Design documentation of ore-dressing and processing enterprise, Albazino location for the following sections: automated control systems; data transmitting systems; electrotechnical part; EM division (control diagrams, connection with APCS); communication systems; security systems. Work complex: (working documentation, equipment and materials supply, installation and commissioning works) on creation and implementation of Security system, communication system of Albazino ore-dressing and processing enterprise.

18. LLC "Albazino resources": work complex: development of technical assignment for implementation and creation of complex of security and communication systems of Albazino ore-dressing and processing enterprise; development of working documentation, security systems complex; development of working documentation for complex of communication systems KSS; development of working documentation for integrated dispatcher system of security systems complex IDS KSB; equipment supply; (supervision installation, adjustment), erection supervision works on implementation and creation of system complex of security and communication.

19. LLC "Amursk hydrometallurgical plant" (Khabarovsk Territory),

Design documentation for the following sections: automated control systems; data transmitting systems; electrotechnical part; EM division (control diagrams, connection with APCS); communication systems; security systems. Work complex: (working documentation, equipment and materials supply, installation and commissioning works) on creation and implementation of APCS for Amursk HMP. Work

complex: (working documentation, equipment and materials supply, installation and commissioning works) on creation and implementation of Security system, communication system of Amursk HMP.

20. LLC "Amursk ore-mining and smelting plant": work complex: development of technical assignment for implementation and creation of complex of security and communication systems of Amursk ore-mining and smelting plant; development of working documentation, security systems complex; development of working documentation for complex of communication systems KSS; development of working documentation for integrated dispatcher system of security systems complex IDS KSB; performance of construction-installation and commissioning works on creation and implementation of security systems complex (sections: automatic fire alarm systems, warning and evacuation system, automated fire protection, main automation system, SOT, AMCS) and complex "Communication systems" sections SAD, SKS, GS. Equipment supply;

21. LLC "RUSSDRAGMET", LLC "Zabaikalzolotoprojekt", development of technical assignment, design documentation, working documentation and APCS of Gold Recovery Plant of **deposit "Belaya Gora"**.

22. LLC "Belaya Gora", LLC "Zabaikalzolotoprojekt": Work complex: development of TS and PDS for "The system of TV monitoring, technical processes and security CCTV", LLC "Zabaikalzolotoprojekt"; development of technical assignment on implementation and creation of complex of ore dressing and processing enterprise; development of working documentation for complex of security systems; development of working documentation for monitoring of engineering systems; supply of equipment; installation and commissioning works.

23. LLC "Gold ore company "Maiskoe": Work complex: development of technical assignment for creation and implementation of complex of security systems and communication of Maisky ore-dressing and processing plant (Chaunsky District, the Chukotka Autonomous District); development of working documentation for security systems complex; development of working documentation for a complex of communication systems; development of working documentation for an integrated dispatcher system of security systems IDS KSB; supply of equipment; installation and commissioning works.

24. IST Group, Tikhvin ferroalloy plant, LR, Work complex: on melting building, scrubbing center No. 1,2,3. Electrical installation works, supply of equipment and materials, commissioning works of electrical equipment.

25. GC "Comtex", Moscow, Kashirskiy plant of color-coated steel. Work complex: installation and commissioning works at the object: continuous hot dip galvanizing line in finishing plant.

26. "Sredneuralsky copper-smelting plant", Revda. Sulfuric production. APCS of sulfuric acid recovery unit, commissioning works.

27. OJSC "Polus zoloto", "PiterGORproject", ore-dressing and processing at Natalkinskoe gold ore field, Magadan region. Design documentation: networks and electric power supply buildings of the plant.

28. OJSC "Apatit", Kirovsk Work complex: on creation of remote control system and blowing houses control, colorific unit and power facilities of Kirovsky and Rasvumchorsky mine. Creation of APCS of continuous-handling systems of crushing division, vacuum pump station No.1, turbo-compressor station ANOF-3. Automatic system for commercial measurement of power consumption of East Mine boiler house. Early fire detection system at air mine openings with incoming "first-of-the air"

of integrated Kirovsk mine. Automation of pulpar pump house No.2 ANOF-2 the division of tailing facility.

Work complex: design development, applicable software. Procurement. Installation, commissioning:

Utility metering system of ANOF-3.

Utility metering system of boiler house in Kirovsk.

Utility metering system of Instrumentation workshop.

Utility metering system of Rasvumchorsky mine.

Utility metering system of ANOF-2.

29. OJSC "Apatit", Kirovsk: construction-installation and commissioning works: Warehouse of POL in boiler house of ANOF-3, EK-CPF full repair and commissioning of power equipment at Rasvumchorsky mine. Headgear complex VS-2. Constriction-installation and commissioning works CPF. Automatic system for commercial measurement of power consumption of East Mine boiler house: construction-installation and commissioning works ANOF-3, reconstruction of ACS WPS in a part of development of automatic-transfer scheme and LAN. Development of design documentation – Telemechanics UPP-27 of conveyor complex gor. +422 of Rasvumchorsky mine. Design and exploring works. **Work complex: ANOF-3:** on creation of remote control system and blowing houses control, colorific unit and power facilities of Kirovsky and Rasvumchorsky mine. Creation of APCS of continuous-handling systems of crushing division. **ANOF-2:** reconstruction of APCS MFO of nephelinic production. Equipment of mobile system of radiocommunication in railroad tunnels of **Rasvumchorsky mine.**

30. OJSC "Kovdor ore-dressing and processing plant", Kovdor, Murmansk region. Work complex: design, supply, construction-installation and commissioning works during creation of APCS of the boiler No. 9 GM-50 and boiler facility of heat-electric generation plant. Work complex: Creation of ACS of continuous-handling systems of crushing division, pulppumping house, drying section of iron-ore concentrate. Installation and commissioning works on automatization of tossing corpus and beneficiation corpus of ABOF as a part of the project "Complex on enriching of baddeleyite-apatite sands of anthropogenic deposit of the first field of tailing storage facility OJSC "Kovdorsky ore-dressing and processing plant".

31. OJSC "Kovdor ore-dressing and processing plant", Kovdor, Murmansk region: Work complex: Creation of ACS of continuous-handling systems of crushing division, pulppumping house, drying section of iron-ore concentrate.

32. OJSC "Kovdor ore-dressing and processing plant", Kovdor, Murmansk region: Work complex: design, supply, construction-installation and commissioning works during creation of APCS of boiler No. 9 GM-50 and boiler facility of heat-electric generation plant.

33. OJSC "Viksa" Nizhniy Novgorod region

34. Work complex: development of APCS, installation and commissioning of waste heat boiler KU-126 in the territory of OJSC "Viksa" Nizhniy Novgorod region.

35. CJSC "Karabashmed" Karabash, OJSC "Institute Gipronickel", design works, technical-economic calculations for modernization and expansion of production, electro technical part.

36. "Sredneuralsky copper-smelting plant": Work complex: development and implementation of APCS of central heating boiler-house. Design and survey works, supply, construction-installation works, commissioning works, gas supply modernization, ACS of steam boilers No.5 of central heating boiler-house.

37. Kolsky HMC Severonickel: Work complex: maintenance of automation system of operational dispatch management of electric power supply; hydrometallurgical section of electrolytic department of metallurgical production facility. Maintenance of ACS of cathode stripping machine; nickel electro winning plant; Maintenance of filter-presses No. 3,4 "Diemme"; electrolytic department of metallurgical production facility Severonickel, maintenance of ACS of assembly lines of matrix basis; Work complex: procurement, design, installation, development of applicable software, commissioning and putting into operation of water heating boiler at central HEP; oxygen-airblast production area; sulphuric acid production area; fluid bed furnace of the copper smelting plant, nickel electrolysis area, copper electrolysis area, carbonyl nickel plant, oxygen air blasting section, automated power consumption measurement system of a plant.

38. AK RUSAL, LLC "Khakass Aluminum Plant", Republic of Khakassia, Sayanogorsk: work complex: materials supply, installation of the system APCS and APGS of electrolysis areas No. 9, 10.

39. AK RUSAL, LLC "Timan-Engineering", Sosnogorsk alumina plant, Komi Republic: front-end engineering and design: development of automated power consumption measurement system TEO (of project), Sosnogorsk alumina plant.

40. LLC "Stavrolen" Construction-installation works within the framework of the project Technical retooling of DCS and ESD of ethylene production in part of equipment **APCS and Instrumentation**.

41. LLC VP Izvesta, Cherepovets, Severstal: Work complex: reconstruction of furnace rotating No.4. Development of working documentation in a part of Instrumentation and ES, equipment supply, construction-installation and commissioning works.

42. OJSC "Severstal", Cherepovets, Vologda region: Work complex: on creation of automated system of intershop utility metering; work complex: tie-in design, construction-installation and commissioning works of automatization of gas turbine unit GUBT 25; complex of repair and recovery activities: (design, construction-installation and commissioning works) system automatization of TDV-2 on HEP-PVS-1. Work complex: design, supply of **Instrumentation**, construction-installation and commissioning works during reconstruction of compressor control system at HEP-EVS-2. Work complex: on designing, equipment supply, installation and commissioning of **Instrumentation** and **APCS** of electric furnace steelmaking; sheetrolling shop No.1, No.2; air separation station; HEP-EVS-2, HEP-PVS-2; coke and by-product process; converter process; furnace thermal through passage rolling; gas turbine unit GUBT 25; furnace produced by German company "Fuchs"; circulation water supply systems; machine 5000, sheet rolling shop No.3; automated system of intershop utility metering.

43. CJSC "Severgal", Cherepovets, Vologda region: Work complex: electrical installation and commissioning works at annealing furnace DREVER of galvanizing line of automobile body sheet.

44. OJSC "Kolskaya GMK", Monchegorsk .Work complex: design, supply, installation and commissioning of Instrumentation.

TsEM Processing of copper bearing materials. Installation of furnaces KS in metallurgical work shop. "Lixiviating area and electrowinning of copper calcine". "TsEN-1. PU for getting of cobalt salts" SKTs. Enlargement of unit for flushed acid from zinc

Refinery work shop. APCS. Unifying of software and hardware tools, adaptation of software.

APCS of regenerator bundles of oxygen plants KA-15 and AKT-30, and also fluid bed furnace of copper calcine

Work complex: design, supply, installation, commissioning and personnel training "Corporate video conference system" for OJSC "Kolskaya GMK".

45. OJSC "Obykhovskiy Plant", Saint-Petersburg: Work complex: installation and commissioning of electrical equipment, cable facilities and APCS devices at "Obykhovskaya HEP". Service maintenance, keeping in working condition of gas custody metering station GRP-1 in the operation period.

46. CJSC "Vorgashorskaya mine 2": Complex of installation and commissioning works on creation and putting into operation of frequency-regulated electrical drive of fun motors and ACS of fun unit of air hole No.4. Frequency-regulated drive was realized with application of frequency converter TMdrive produced by TOSHIBA MITSUBISHI, with a capacity of 2,7 megawatt.

47. OJSC "OLKON" – "Olenegorsk ore-dressing and processing enterprise": Work complex: installation works on two crushers of type (SANDVIK 6800), receiving bunker DSF – manufacturing of unlace winding machines control panels with the changing of electrical equipment, columns pump control cabinets reparation, reparation of automated systems of loading ASN-5VG, building of KOB at Komsomolskoe deposit: auditing of power electrical equipment. DCS building reconstruction for chemical laboratory: installation of telephone system at capital construction project. Installation, connection, commissioning and putting into operation of the other electrical equipment.

POWER GENERATION

1. Era-Cross Engineering and SZMA Trust both making part of ERA-CROSS Group of Companies proceeded to the first stage of specialized construction and installation on 200 MW gas-turbine CHP plant for LUKOIL-Permnefteorgsintez. The power facility is designed to supply power and heat to oil refinery as well as to increase the efficiency of refined products on LUKOIL enterprises. The new power plant will be equipped with gas-turbine power plants, waste heat recovery units and boiler gas plant. The associated petroleum gas will serve as main and reserve fuel.

2. Norilsk-Taimyr Energy Company. Normalization of protection systems and blocking of boiler units to modern safety standards, modernization project for TPP 3 and TPP 2.

3. OJSC "North-Western TPP" (Intrier RAO UES) Saint-Petersburg: performance of construction-installation works: maintenance repair of current conducting wires and electrical equipment with a voltage of 15,75 kV, 6 kV, 0,4 kV, DC systems – DC board; installation and commissioning of automation systems and electrical equipment of auxiliary boiler; installation and commissioning of switchgear 6/0.4 kV GTU № 1; reparation of lighting networks, cable facilities and aerial lines. Reparation of high-voltage equipment, commissioning works.

4. **Branch Office OJSC "RusHydro" – "Zeyskya HPP"** Supply of material and technical resources block packaged unit for utilization of recuperative capacity, electro technical products.
5. **OJSC "MRSK North-West":** Supply of material and technical resources: packaged transformer substations PTS-100-10/0,4; PTS-160-10/0,4; PTS-25-10/0,4; PTS-250-10/0,4; PTS-40-10/0,4; PTS-63/10/0,4 ; PTS-TB-250/10 ; packaged kiosk-typed transformer substation-400;
6. **OJSC "RusHydro" -** Supply of material and technical resources: block packaged unit for utilization of recuperative capacity; power supply package, electro technical products.
7. **OJSC "Lenhydroproject":** front-end engineering and design: development of design documentation "Integrated safety construction system of Leningrad Pumped-Storage Hydro Station" on the base of Siemens Building Technologies equipment.
8. **OJSC "Lenenergo" "TPS"** Construction-installation and commissioning works on reparation of electromagnetic interlocking with changing of secondary circuits to open switchgear 35 kV, reparation of circuit breaker cells, outdoor switchgear 10 kV PS35/10 kV №16, with the changing of RPEA units, circuits and secondary control wiring and electric power metering.
9. **Projects of OJSC "Lenenergo", Saint-Petersburg.** Manufacturing, supply, installation and commissioning of electrical power equipment 10/0,4 kV.
10. **GUP "TEK SPb", St. Petersburg:** Work complex: design, supply, installation and commissioning of **Instrumentation**, according to annual targeted programs of boiler houses upgrading, more than 50 boilers. Complex of works under the targeted program of energy metering implementation.
11. **Right Bank Combined Heat and Power Production Plant, Saint-Petersburg, OJSC "Lenenergo", Saint-Petersburg:** Work complex: electrical equipment installation, integrated cable systems and Instrumentation units, startup complex No.5, power block No. 1 with the boiler unit EP 670-13,8-545 GMH №1, turbine T-180/ 210-130-1, generator TZV-220-2.
12. **"Construction Committee" Primorskaya boiler house, Saint-Petersburg** Work complex: supply, installation and commissioning of **Instrumentation** and **APCS**. The 2nd and the 3rd stages of Primorskaya boiler house construction; offsite boiler facility and boiler unit No. 2 KVGM 20.
13. **OJSC "Power Machines", Azerbaijani SDPP, Azerbaijan:** Work complex: design for coordination electronic part of the regulation system of the turbine unit of the 5th block at Azerbaijani SDPP. Supply of automation equipment and installation materials. Commissioning of automation at turbine unit of the 5th power block at Azerbaijani SDPP.
14. **Concern Energoatom, Leningradskaya Nuclear Power Plant, Leningrad region:** development and supply of distribution cabinets and packaged units with distribution stations.

CIVIL CONSTRUCTION

1. **OJSC "Apatit", Kirovsk.**General contracting works on reconstruction of sports and fitness center with elements of water park "Delphin" for OJSC "Apatit", including general construction works, electrical works, HVAC system, complex automation of swimming pool.
2. **IKEA MEGA Dybenko, IKEA MEGA Parnas, IKEA MEGA Rostov, IKEA MEGA Krasnodar:** Complex of works: design and electrical installation of electrical supply systems.

3. GUP SPb Metropoliten: construction installation works and commissioning works: equipment modernization of PFD lines 1,2,3,4,5 in part of furnishing of automation devices of voltage presence on cable inlets. Project development: Furnishing of stepdown substation – TS EM of administrative-industrial building EMC with an address at: Lesnoy pr. Building 25.

4. OJSC "Severstal", Cherepovets, Vologda province. Complex of works: tie-in design, construction-installation and commissioning works of automation systems for gas turbine unit GUBT 25. Complex of repair and recovery works: (design, construction-installation and commissioning) automation systems TDV-2 on TPP-TBS-1. Complex of works: design, supply of Instrumentation, Construction-installation, Commissioning works while under reconstruction of compressor control system TPP-EAS 2.

Complex of works: design, equipment supply, installation and commissioning of Instrumentation and Automated Process Control System of electric-furnace steelmaking; sheet rolling shop No.1, No.2; air separation stations; TPP-EAS-2, TPP-TBS-2; coke and by-product process; converter process; through passage thermal roller furnace; gas turbine unit GUBT 25; furnace, manufactured by "Fuchs" Germany; circulation water supply system; mill 5000, sheet rolling shop No.3; automated system of intra-plant metering and monitoring of utilities.

5. Korn Interkos-IV: Construction-installation and commissioning works: Construction of stamped components plant and steel service center. Phase I in Kolpinskiy district, electrical installation works, Izhora plants. Shops No.34. Installation of electrical equipment, automation of HVAC system for being in the process of construction housing estate Knyazh Alexander Nevsky.

6. CJSC Administration No. 10 of Metrostroy, St. Petersburg: Construction-installation and commissioning works: subway station Volkovskaya, construction of St. Petersburg subway radius Frunzensky. Installation of telephone communication, system of communication \ warning loudspeaker system, installation of electric clock system.

7. GUP SPb Metropoliten: Complex of works: Electric engine house Dachnoe, building of mechanical blank production shop: overhaul of Package Transformer Substation (PTS) No.8 in part of switchgear 0.4 kV.

8. GUP SPb Metropoliten: Complex of works: overhaul of traction-stepdown substations 6\10 kV related to the replacement of current transformers, voltage transformers and electricity metering system.

Subway station Gostiny Dvor (reconstruction): Complex of works: designing, supply, installation and adjustment of air conditioning systems Mitsubishi.

Subway station Komendantsky Prospect (New construction): Complex of works: designing, supply, installation and adjustment of air conditioning system Daikin

9. Federal state unitary enterprise "Murmansk fishing sea port", Murmansk Complex of works: electric installation and commissioning works on secure lighting systems.

10. Distillery "Russkiy standard", St. Petersburg: design and survey works: Design of engineering systems of distillery shops and office buildings.

11. Plaster-making plant LLC "KNAUF GIPS KOLPINO", St. Petersburg

Complex of works: installation and commissioning of electric equipments of bucket crane manufactured by "HERZ".

12. LLC "Vegas", St. Petersburg: Complex of works: designing, supply, installation of HVAC systems on the objects of vitreous, warehousing, assembling areas and personal service rooms.



13. **Trading and entertainment complex IKEA MEGA – Kudrovo, Renaissance Construction Group:** Designing and installation works of electric power supply system for the complex.
14. **LLC “Dirol Cadbury”, Chudovo, Leningrad province:** Complex of works: designing, recuperation system installation, modernization of supply and exhaust ventilation of office premises.
15. **LLC “Development corporation “Vozrozhdenie of Saint-Petersburg”, Saint-Petersburg Academic Philharmonia named after D.D. Shostakovich:** Complex of works: designing, installation and commissioning works for reconstruction of ventilation system in Small concert hall named after M.I. Glinka.
16. **VINCI Construction Grands Projets:** Complex of works on creation of HVAC systems.