SAINT PETERSBURG ELECTROTECHNICAL CO. (SPBEC) IN A NUTSHELL

- Fully private
- Established in 1995 in Saint Petersburg, Russia
- Leader in engineering and EPC/EPCM* services for factories
- > 1250 clients in 4 continents
- > 600 employees
OUR SERVICES FOR FACTORIES

For new factories and modernization projects:

☐ Automation including installation and commissioning

☐ Electric Power Distribution including installation and commissioning

☐ Engineering, Procurement, Construction (Management) (EPC/EPCM)
WHY SPBEC?

☐ Clientele orientation that allowed a growth from 1 to 600 employees in 20 years

☐ Innovation focus supported by cooperation with universities (e.g. in Switzerland)

☐ Experience with flagship European/international companies and their requirements

☐ Deep knowledge of the Russian/CIS markets (e.g. GOST technical standards, specific documentations)

☐ Readiness to conduct projects in “difficult countries” anywhere in the globe
OUR EXPERTISE

EPCM WORK PACKAGE

Commissioning works
Installation and construction works, construction of industrial facilities
Equipment manufacturing and supply
Design and survey works
Regulatory expert review, start-up, service maintenance

*Engineering, procurement, construction management*
ENGINEERING / EPC / EPCM / TURN-KEY SOLUTIONS

PLANNING
- System conception / design / programming
- Working documentation / assistance with permitting

EXECUTION
- Equipment procurement / assembly
- Construction / installation / commissioning

CLOSING
- Executive documentation
- Client staff training

POST
- Costumer support / servicing
- After-sale repair and upgrade

Project management / supervision
Labor cooperation / negotiation
Client consultation and recommendations
AUTOMATION

Site Manufacturing Operations
Area Supervisory Control
Basic Process Control
Field Instrumentation

MES (Manufacturing Execution System)
SCADA (Supervisory Control And Data Acquisition)
ICS (Industrial Control Systems)
PLC (Programmable Logic Circuits)
ELECTRIC POWER DISTRIBUTION

- Complete power distribution systems with 35-10-6-0.4 kW voltage (transformers, transformer substations, switch gears and control gears, KSO, relay protection, diagnostic equipment, etc.)

- Reduced-current start devices

- Infrared heating systems (infrared radiant burners, emitting heaters, gas-fired air heaters, warm air curtains, etc.)

- Creation of a facility’s own power generating capacity and improving energy efficiency
CONSTRUCTION

☐ Design and development works
☐ General contracting and construction works
☐ Serving as a technical customer
☐ Preparation and commissioning of facilities
☐ Warranty and service facilities
DISTRIBUTION OF PROJECTS BY INDUSTRY

- Metallurgy: 42%
- Mining: 11%
- Oil & gas: 5%
- Power: 11%
- Pulp & paper: 16%
- Construction: 2%
- Machinery: 5%
- Other: 8%

Automotive, Cement & Glassworks, Chemicals, Consumer Goods, Food & Beverage, Woodworks
A SELECTION OF OUR CLIENTS
OUR REGULAR SUPPLIERS
INTERNATIONAL PRESENCE

CIS countries
Kazakhstan
We have implemented major joint projects with PAUL WURTH (blast-furnaces), SCHENK PROCESS (a charge preparation line) and SMS SIEMAG (converter production) at a metallurgical plant of Arcelor Mittal Temirtau JSC, Kazakhstan.
The projects in Kazakhstan include the creation of an automated process control system for hydrocyclone units for Kazakhmys Corporation LLP, a package of power supply, control and grinding mill automatic control works in Zhayrem for Loesche GmbH, etc.
Belarus
The automation of an electric arc furnace for Republican Unitary Enterprise (RUE) Byelorussian Steel Works.
RM-14 integrated production line for slitting machines and a transport and packaging line for Republican Manufacturing Unitary Enterprise (RMUP) Newsprint Mill, Škloŭ, and other projects.
Ukraine
A package of measures for the development of “a data recording system for an outer covering line” for NTRP OJSC, Dnepropetrovsk.
Supply of hot spares and diesel generators for Westron LLC, Kharkiv, and other projects.
Europe
Commissioning works for Schnider Electric, Norway, and EFANSA SISTEMAS DE CONTROL, S.A., Italy.
Troubleshooting for Maersk, Spain, and other works.
Asia
The company has carried out commissioning works in Thailand for General Electric, in Pakistan for GEPower (Thermodyn), in Georgia for Alstom, in Korea for Sakhalin Energy Investment Company Ltd. and in Qatar for QEWC.
Together with FreyIngenieure, SPBEC experts have worked to program controllers for a car leak testing conveyor line for an Audi factory in China. The company has also accomplished other projects in Asia.
Africa
The official representative of SPBEC in Morocco and throughout the North Africa region is SIIRS.A. (a joint venture between a Moroccan partner and SPBEC).
The company’s experts have performed commissioning works in Nigeria for Rockson Engineering, in Algeria for Fertial SPA, etc.
South America
The SPBEC-MINING Division which specializes in mining projects is actively developing its business in Chile in partnership with Becker Mining System GmbH.
SOME REFERENCE PROJECTS
BY INDUSTRY

* More information about other projects you can look at http://www.spbec.com
METALLURGY

Sintering – APCS material traffic with realization of continuous weighing conveyor

Blast Furnaces – turnkey projects of modernization of 6 furnaces starting from the track feed to the control top-loading systems and stoves

Steelmaking – APCS for converter process, preparation charge

Rolling – APCS for collecting roller table, reel group, hot rolling mill 2000 harvesting group, etc.

More information about other projects you can look at http://www.spbec.com
ENERGY

OJSC APATIT
Reconstruction of the heating and hot water supply systems and construction of modular electric boiler

JSC IRKUTSKENERGO – UTS TETS-9
Expansion of the automatic system of dispatching technological management (ASDTM) pump stations.

JSC DIAKONT – THE KOLA NPP
Development of 7 complexes automatic digital of brushless regulators of the synchronous regulator for system of emergency power supply.

OJSC FORTUM
Chelyabinsk CHPP-3. Introduction of an automated control system of the additional pump unit of the peak boiler room.

OJSC APATIT
Construction of 150 kV power substation
ENERGY

JSC TGC-1 KOLSKAYA
The control system of hydraulic units shaft runout

JSC KOLYMAENERGO
Implementation intrabuilding warning system for the needs of the branch "Kolymskaya HPP l.Frishtera"

JSC SEVKAZENERGO
Petropavlovskaya CHP-2. Reconstruction of the electrical part of the clarified water pump number 2, JSC "OGK-3" Kharanorskaya TPP. Upgrade ACS 3, modernization LSAU

JSC E.ON Russia
Berezovskaya TPP. Design work on the replacement of motor fuel area.

JSC OGK-2
Krasnoyarskaya TPP -2. Reconstruction of relay protection unit №7

JSC KAMCHATSKENERGO
110/35/10 kV Kavalerovskaya substation. Upgrade of 110/35/6 kV "Kavalerovskaya substation "

WWW.SPBEC.COM
MINING

OAO JSC ALROSA - MINE «MIR»
Expansion, opening and working off of sub career stocks to a mark 615m. Objects of a superficial and underground complex. First start-up complex. System of power supply 110/6,3/6,6kv

ALROSA GROUP, DIAMOND FIELD OF M. V. LOMONOSOV
Complex works on systems of automation and power supply

THE AUTHORIZED SYSTEM OF DISPATCHING MANAGEMENT (ASODM) OF UNDERGROUND MINE
Installation and construction works, development of production schedules with examination of industrial safety and performance of commissioning on objects Mir Mine of ASODU a subsystem "Airing the GVU, GKU, VKU Complex"
MINING

JSC NORILSK NICKEL MMC
ACS of the alarm system, centralization, blocking of underground railway transport

CHINA ENERGY COMPANY SDIC, KUZIDONG MINE
ACS of underground complexes

More information about other projects you can look at http://www.spbec.com
PULP & PAPER

JSC ILIM GROUP, KORYAZHMA
BDM-1, BDM-6, PRS-2, PRS-4. A complex control system of the automated electric drive. BDM-2, BDM-5. Replacement of a control system of quality

PAPCEL A. S. JSC SUKHONSKY PULP AND PAPER MILL
Reconstruction of system of electro providing, the electric drive and industrial control system the airborne combat vehicle again established the airborne combat vehicle.

* More information about other projects you can look at http://www.spbec.com
CASE STUDIES

PULP & PAPER

JSC MONDI SYKTYVKAR
PM 14 - Line package management system.
PM-21 Integrated Management System automated electric drive.
PM-11 Reconstruction of the drive.

JSC SPB KPK
Modernization of the automated control system for data cultivation of mill KDM1.
System of power supply and ensuring smoke removal of a warehouse of waste paper with fire signals of system and cellulose. A complex of works on design, delivery and installation of the automated information and measuring system of the technical accounting of electric energy

JSC SEGEZHSKY PULP AND PAPER MILL
Modernization of system of visualization of technical parameters on No. 10 airborne combat vehicle, technical audit of system of the automatic electric drive

* More information about other projects you can look at http://www.spbec.com
OIL & GAS

LUKOIL TORGOVY DOM LLC
Turnkey construction and installation of 2 systems for fast automatic load transfer between 6 kV sections

GAZPROM NEFT – KHANTOS LLC
Work package
Installation of fast-acting load transfer start-up devices at 2 client substations
No substitution of existing high voltage switching elements (6kV)

* More information about other projects you can look at http://www.spbec.com
MACHINERY

PETROZAVODSKMASH
Design documentation
Construction of pipe heat treat furnace
Workshop gas pipeline upgrade

JSC MACHINE BUILDING FACTORY OF PODOLSK
Computerized control system for steam generator
Design, supply, installation and commissioning

More information about other projects you can look at http://www.spbec.com
AUTOMOTIVE

VOLKSWAGEN GROUP RUS PLANT
Car leak test: equipment supply, installation, commissioning.

RENAULT
System of ensuring reliability of bolted connections
Control system of screw gun on the basis of the Siemens controller in shop of assembly

More information about other projects you can look at http://www.spbec.com
CEMENT & GLASS WORKS

IBAU HAMBURG (Germany)
Control system for pneumatic transport system

POLOTSK-STECKNOVOLOKNO (Belarus)
Packaged automated system for compressor

* More information about other projects you can look at http://www.spbec.com
CHEMICALS

ALTAI-KOKS
Coke pusher machine upgrade
Leveler beam drive
Ram beam drive
Positioning system drive

More information about other projects you can look at http://www.spbec.com
FOOD & BEVERAGE

PEPSICO
Projects on water treatment / the Return mineralization of the prepared water (the status of the project: beginning of realization of works) Modernization of production lines. Transportation automation pallet

HEINEKEN
Delivery of electric equipment. Development of the project, installation and adjustment of system of the analysis of concentration of the substances CO2 on branches of the company

* More information about other projects you can look at http://www.spbec.com
FOOD & BEVERAGE

COCA-COLA EURASIA
Automation and control systems for the Coca-Cola Companys plant. Automation and control system of the boiler plant

AGROTORG - GATCHINA FEED MILL
The control weigher sistem

CHOCOLATE FACTORY IN STUPINO / MOSCOW

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CONSTRUCTION

VELSKY WOODWORKING COMBINE. TRADEMARK “VELSKY LES™”
Construction of "turnkey" sawing shop.

NOVARTIS NEVA
General in a row and architectural supervision "to a redesign of scientific-industrial complex on development and production of medicines"

More information about other projects you can look at http://www.spbec.com
SHIPBUILDING

MINISTRY OF INDUSTRY AND TRADE OF RUSSIAN FEDERATION
Development of technology and the creation of a prototype ship power object on liquefied natural gas to equip ships of inland and mixed navigation

More information about other projects you can look at http://www.spbec.com
VALUE ADDITIONS OF OUR SERVICES

- Reductions in electricity use
- Reduction in water usage
- Manufacturing that meets environmental standards
- Improved worker safety in the production facility
- Lowered production costs
SUMMARY STATEMENTS

SPBEC is a reliable, local source of expertise for companies with factory operations or interests in Russia and the CIS. SPBEC completes projects to international standards by accessing the knowledge and creativity of its workforce.
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THANK YOU!

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