



SPBEC

ENGINEERING
FOR INDUSTRY

WWW.SPBEC.COM

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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:

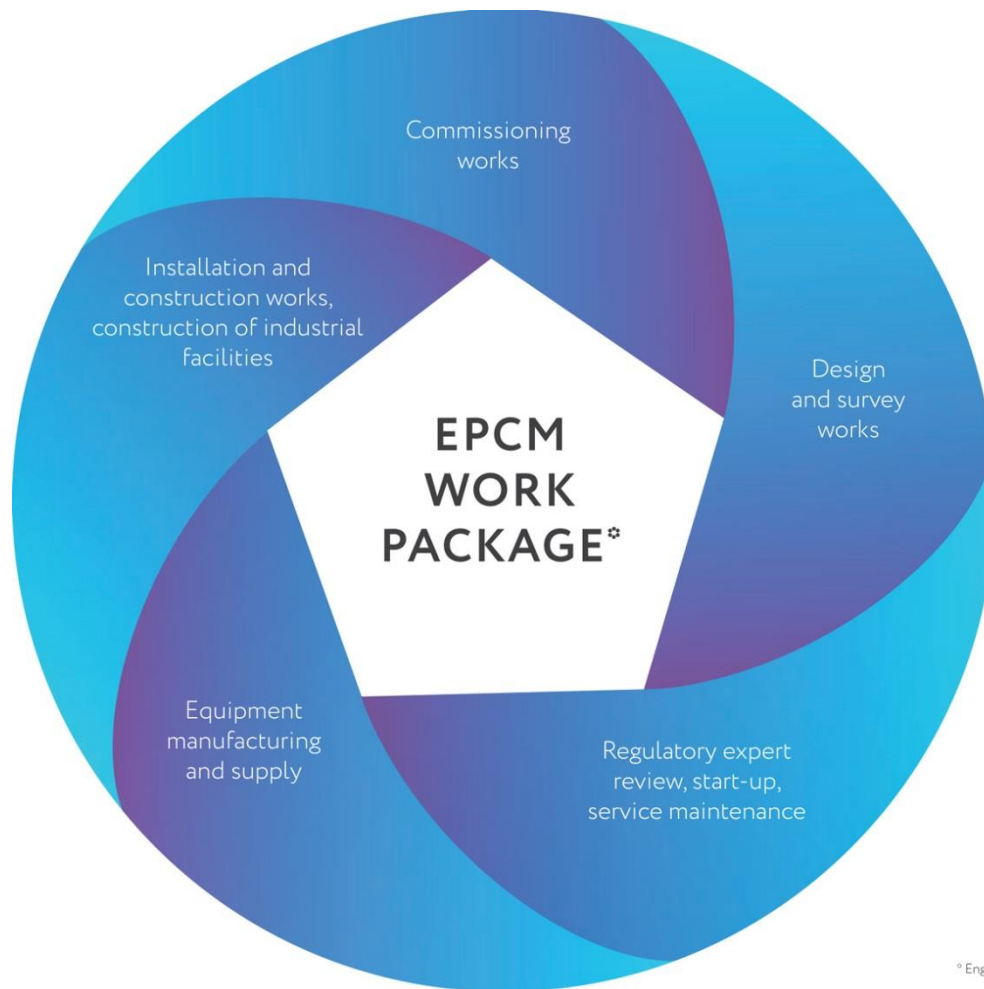
- Automation including installation and commissioning
- Electric Power Distribution including installation and commissioning
- Engineering, Procurement, Construction (Management) (EPC/EPCM)

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

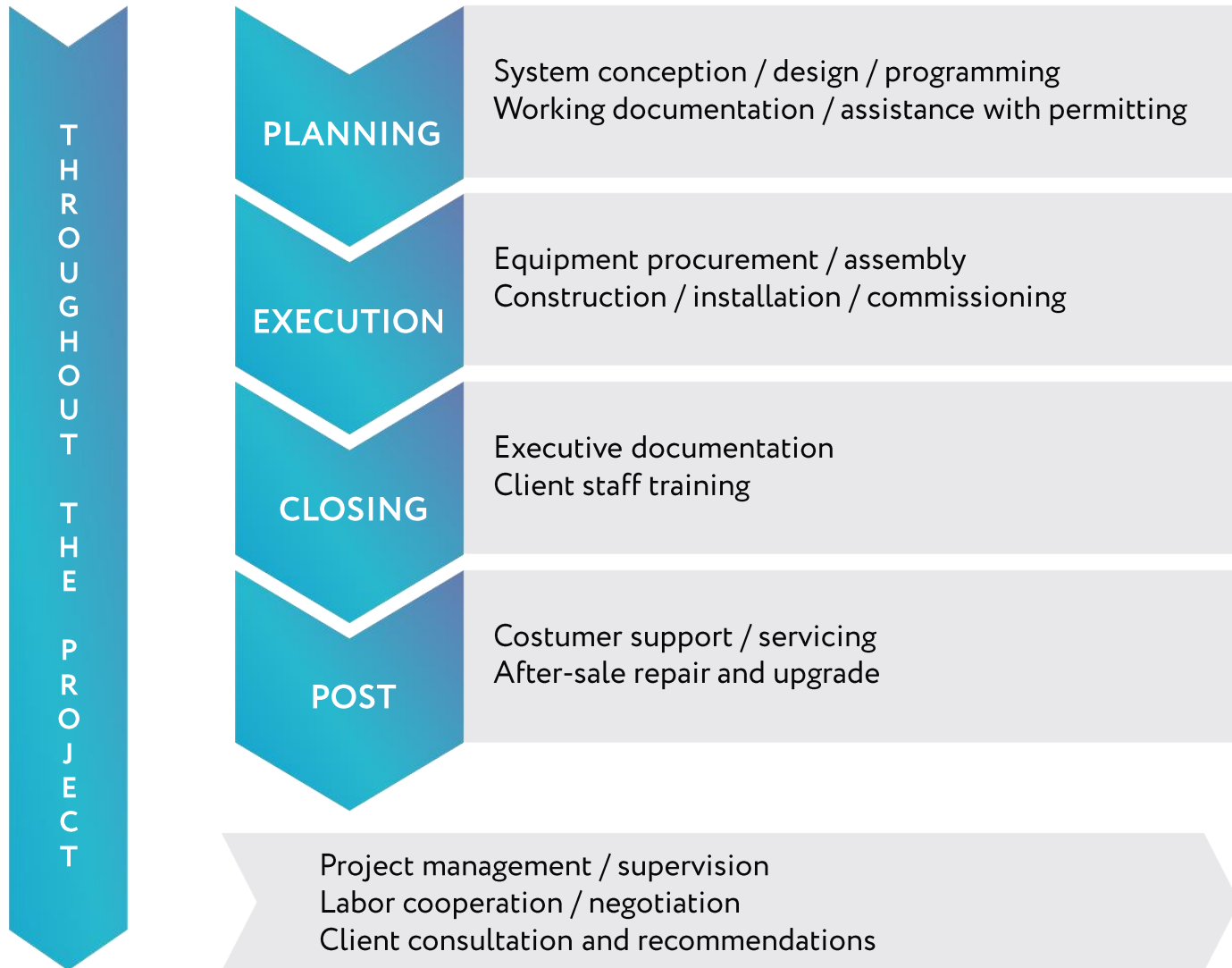


OUR EXPERTISE

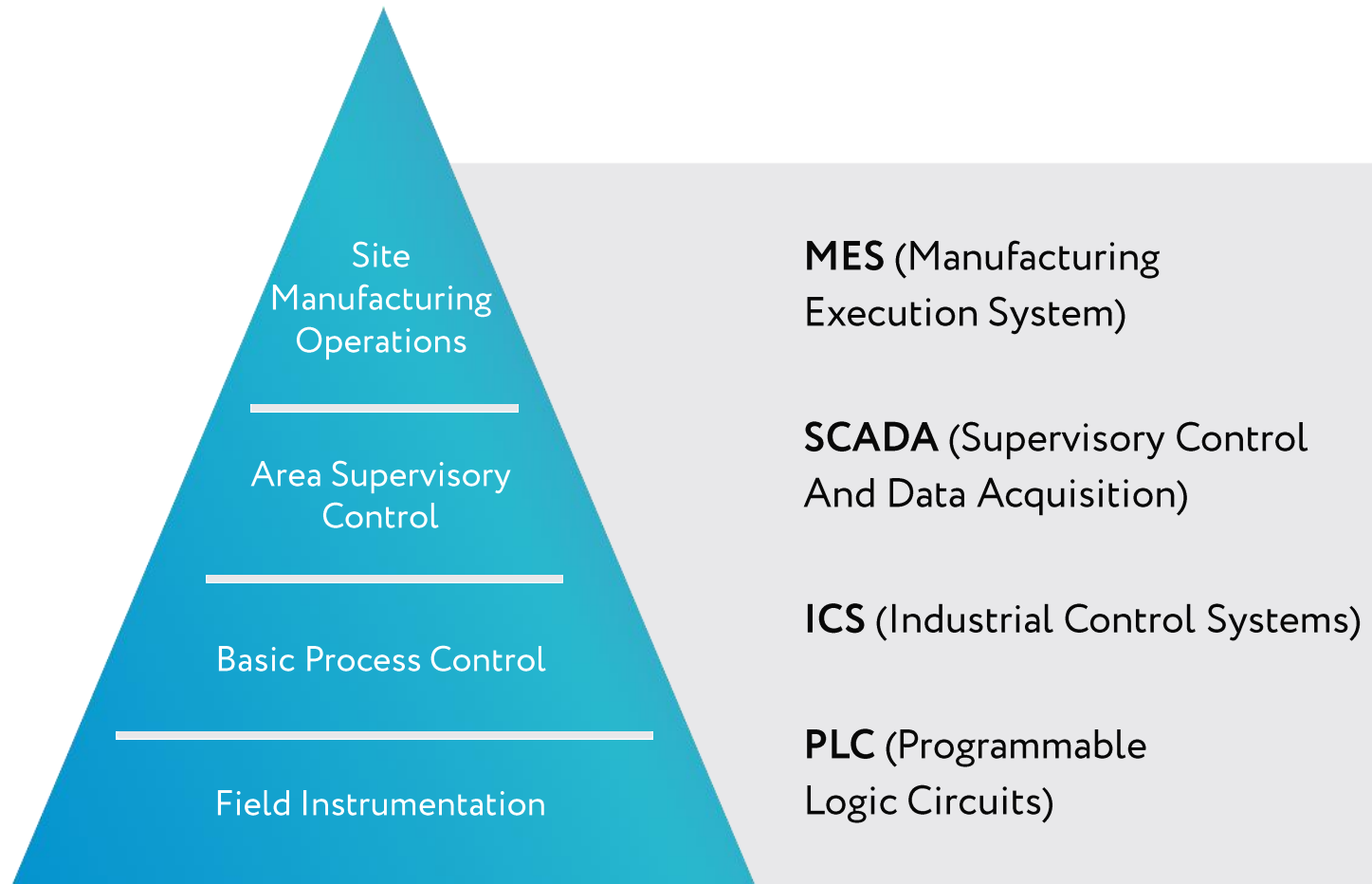


® Engineering, procurement, construction management

ENGINEERING / EPC / EPCM / TURN-KEY SOLUTIONS



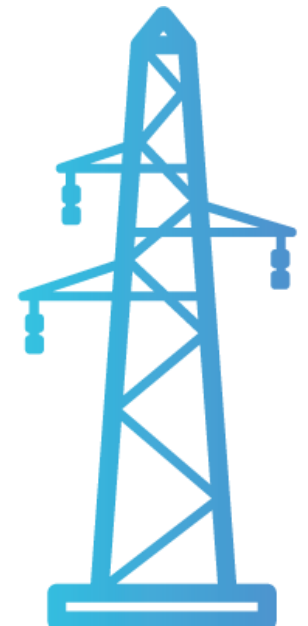
AUTOMATION



PROCESS AUTOMATION | MANUFACTURING AUTOMATION

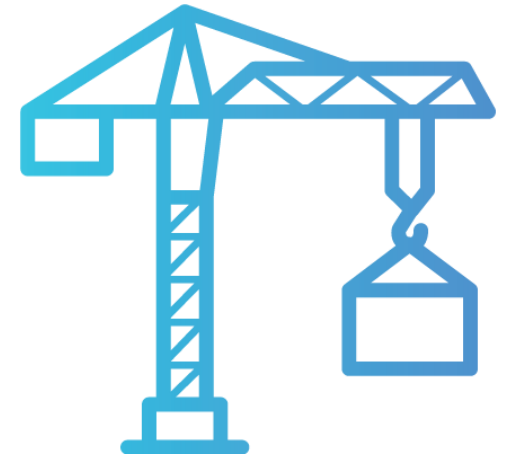
ELECTRIC POWER DISTRIBUTION

- 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

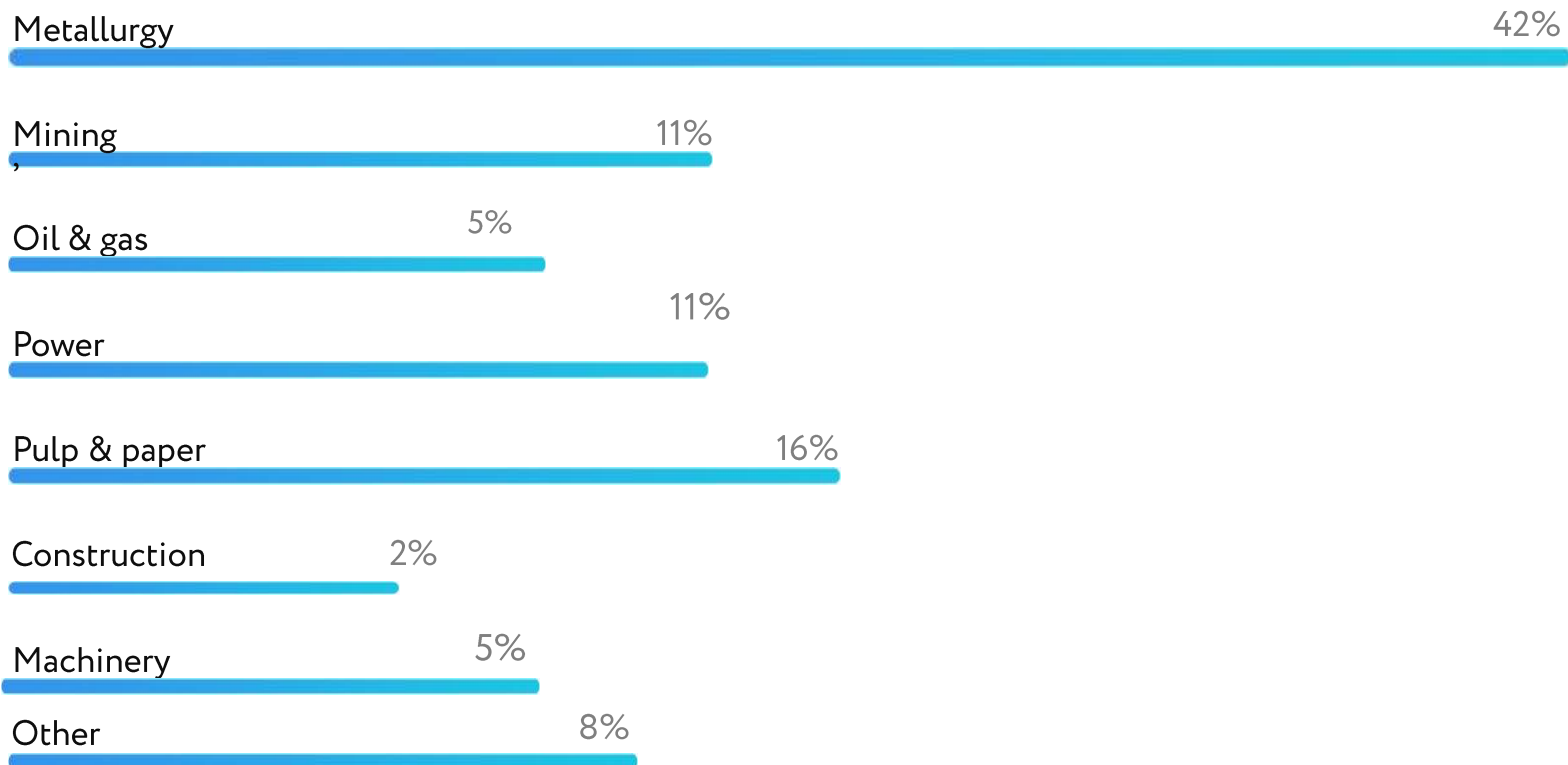


CONSTRUCTION

- Design and development works
- General contracting and construction works
- Serving as a technical customer
- Preparation and commissioning of facilities
- Warranty and service facilities

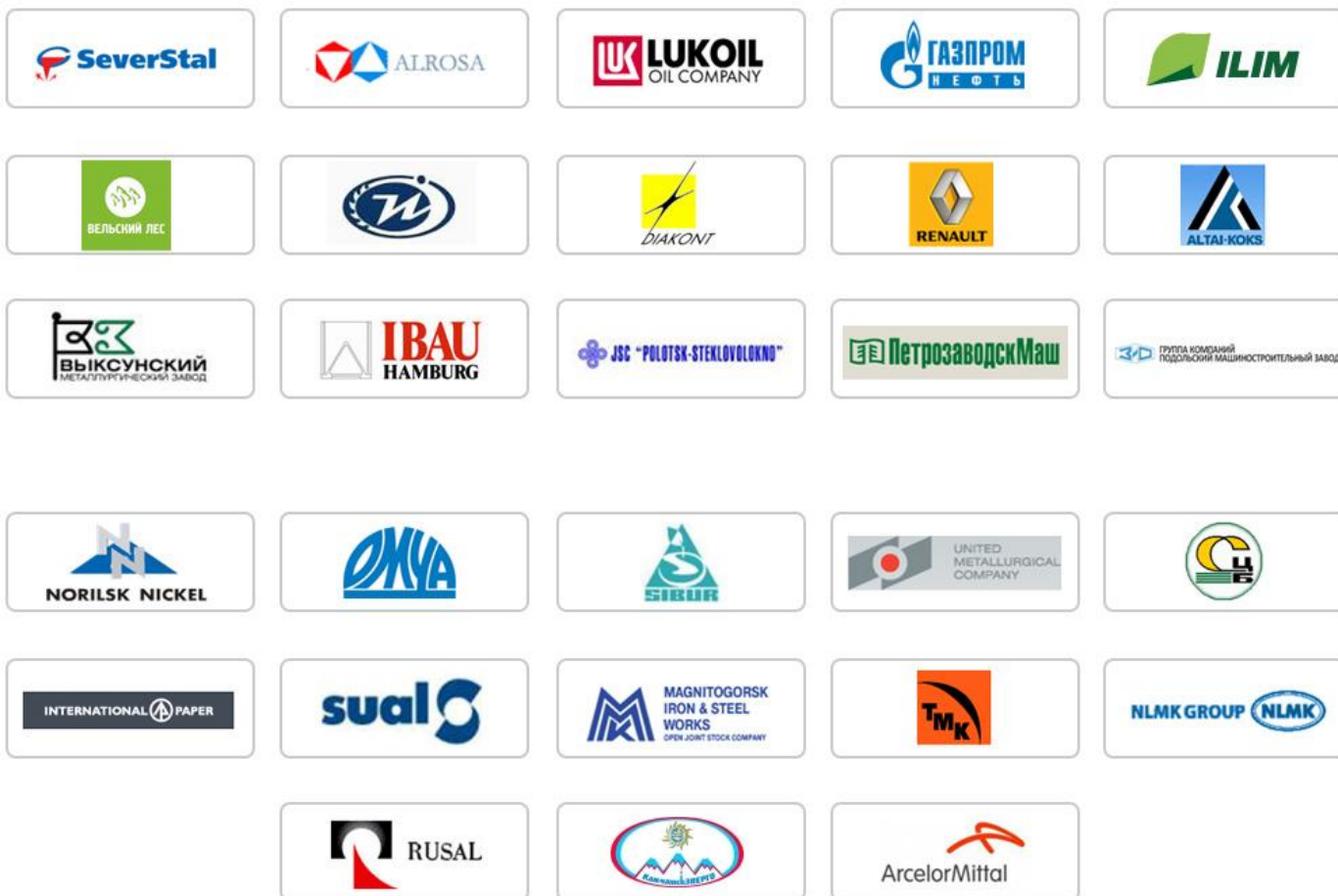


DISTRIBUTION OF PROJECTS BY INDUSTRY



Automotive, Cement & Glassworks, Chemicals, Consumer Goods, Food & Beverage, Woodworks

A SELECTION OF OUR CLIENTS



OUR REGULAR SUPPLIERS

The logo for ABB, consisting of the letters 'ABB' in a bold, red, sans-serif font.The logo for TROLEX, featuring the word 'TROLEX' in a bold, black, sans-serif font with a blue double arrow pointing to the right.The logo for Danfoss, featuring the word 'Danfoss' in a red, cursive script font.The logo for Schneider Electric, featuring the word 'Schneider' in green and 'Electric' in black, with a green circular icon containing a white 'E'.The logo for SIEMENS, featuring the word 'SIEMENS' in a bold, blue, sans-serif font.The logo for Rockwell Automation, featuring the word 'Rockwell' in red and 'Automation' in black, with a red and black graphic element.The logo for Emerson Process Management, featuring the word 'EMERSON' in white on a blue background, with 'Process Management' in smaller text below.The logo for SAB SÄGEWERKSANLAGEN, featuring the letters 'SAB' in a gold, serif font inside a gold circle, with 'SÄGEWERKSANLAGEN' in smaller text below.The logo for RITTAL, featuring the word 'RITTAL' in a bold, black, sans-serif font with a colorful graphic element.The logo for Basler Electric, featuring a blue 'B' icon and the text 'Basler Electric' in blue.The logo for hecker MINING SYSTEMS, featuring the word 'hecker' in a bold, black, sans-serif font and 'MINING SYSTEMS' in smaller text below.

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.

PM-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 "Kolymenskaya HPP I. 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"



ГРУППА КОМПАНИЙ
ПОДОЛЬСКИЙ МАШИНОСТРОИТЕЛЬНЫЙ ЗАВОД

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 GVV, GKV, 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



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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



PAPCELA. 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.



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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

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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

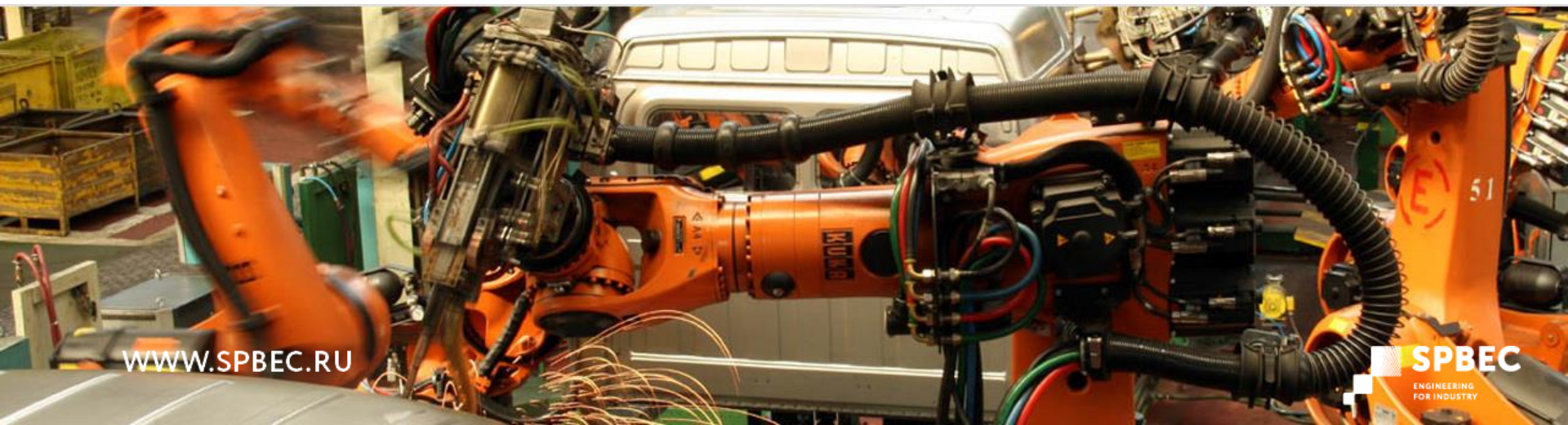
Computerized control system for steam generator

Design, supply, installation and commissioning



ГРУППА КОМПАНИЙ
ПОДОЛЬСКИЙ МАШИНОСТРОИТЕЛЬНЫЙ ЗАВОД

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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



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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 Company's plant.
Automation and control system of the boiler plant



AGROTORG - GATCHINA FEED MILL

The control weigher system



CHOCOLATE FACTORY IN STUPINO / MOSCOW

Optimization of working space. Reconstruction of industrial complex on production of confectionery. Replacement of control pillar of the line of transportation and dozation of flour. Delivery of electrotechnical production. Supply of equipment. Chief installation of illuminants. Wiring of sewer pump stations. Reconstruction of industrial complex. Commissioning.



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"



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SHIPBUILDING

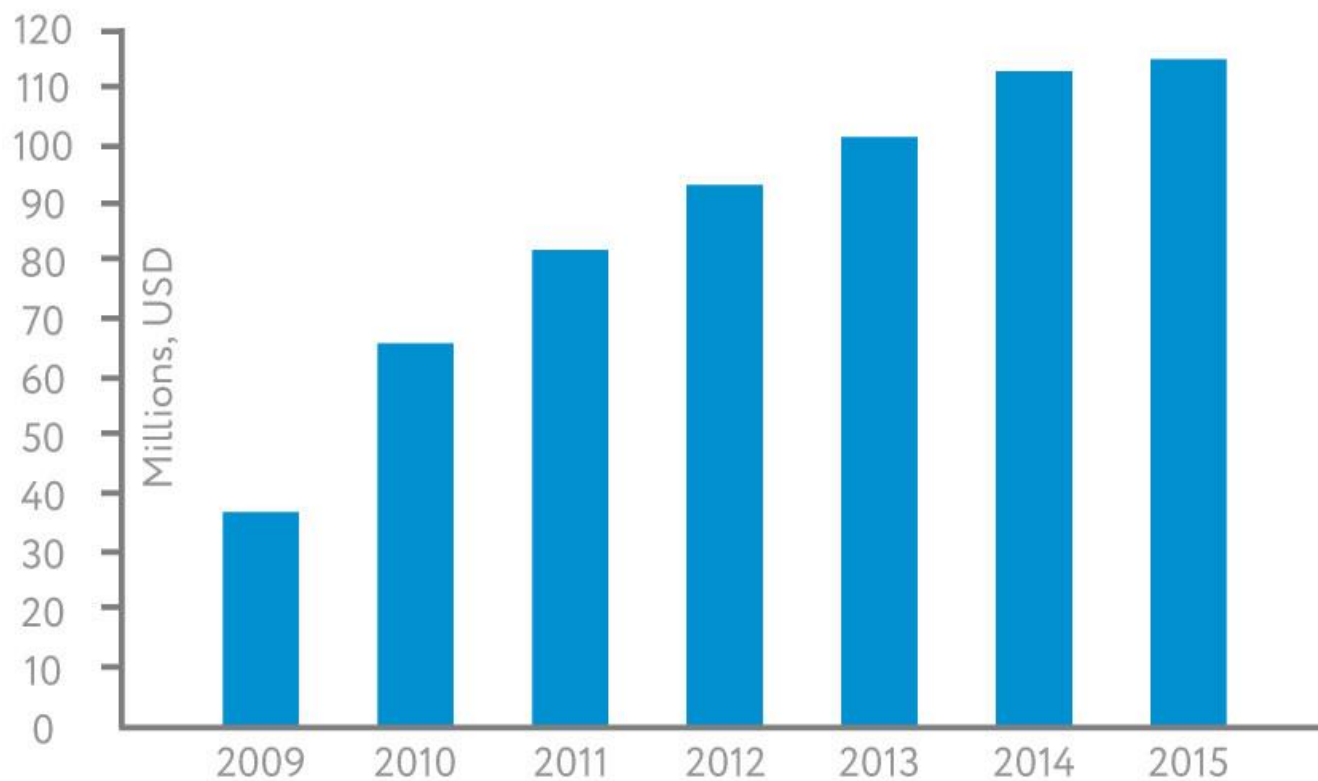
MINISTRY OF INDUSTRY AND TRADE OF RUSSIAN FEDERATION

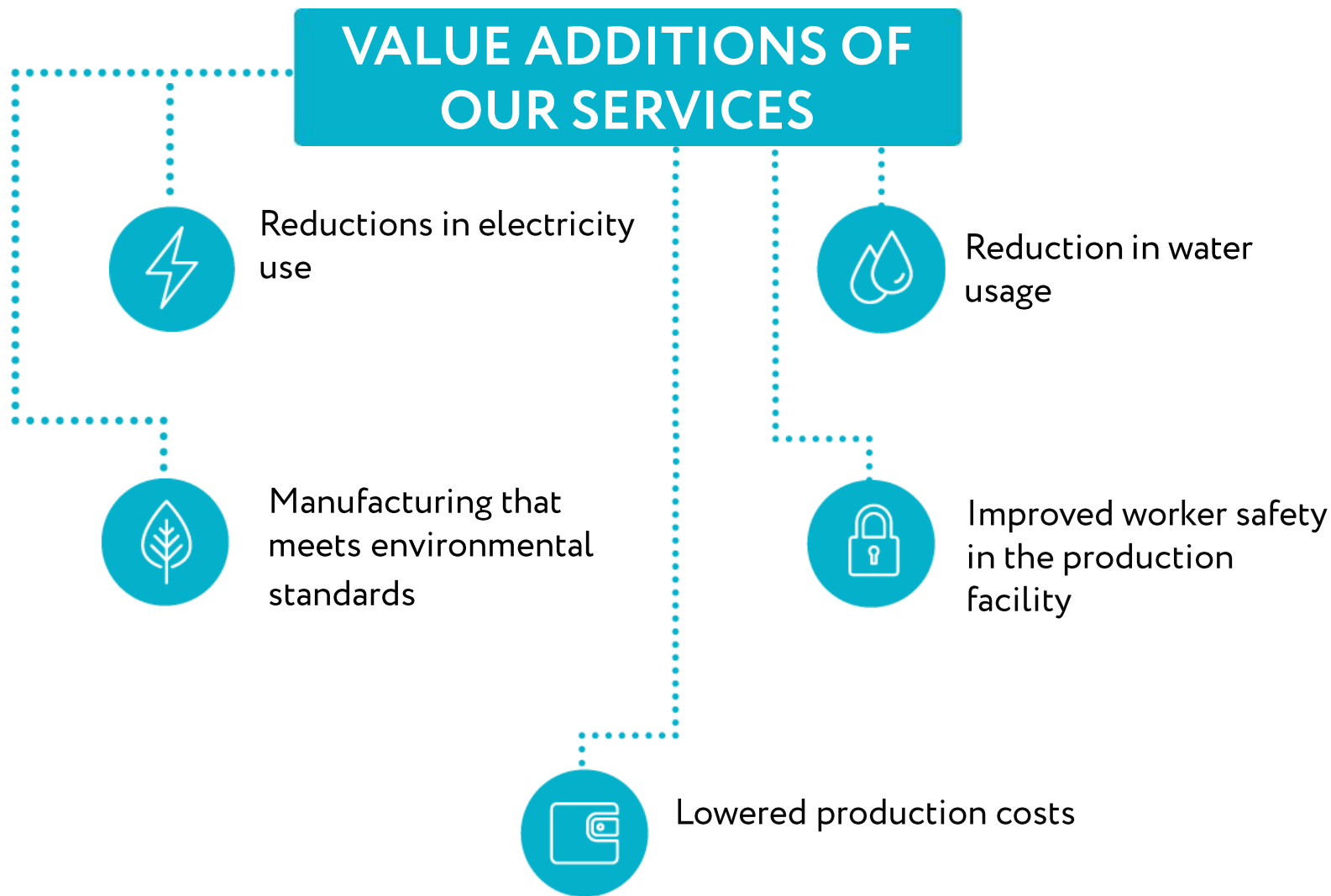
Development of technology and the creation of a prototype ship power object on liquefied natural gas to equip ships of inland and mixed navigation

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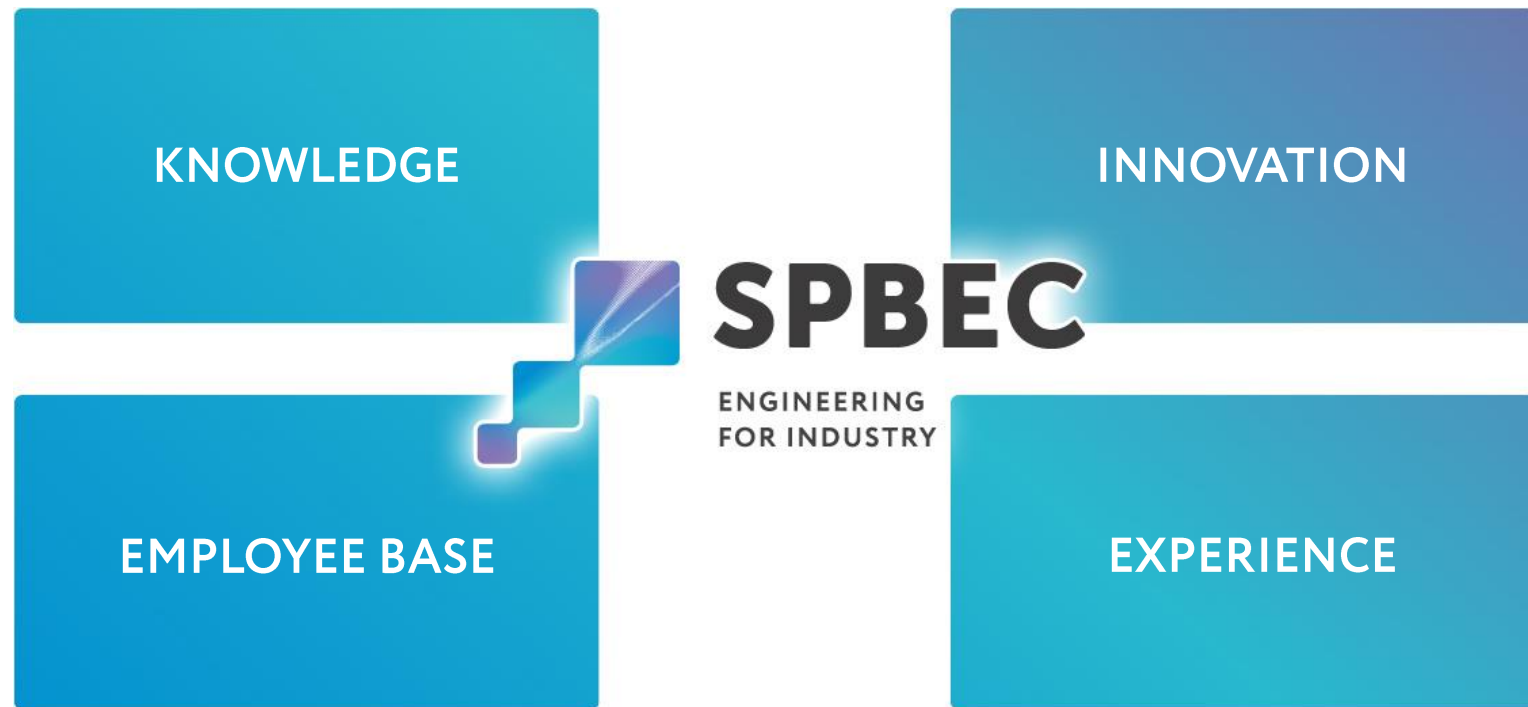
OUR GROWTH










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.





CONTACTS/OFFICES

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THANK YOU!

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