

EXPERIENCE FROM IMPLEMENTED PROJECTS

Our Company is fully engaged in the biggest-ever renewal and upgrade of the infrastructure and production capacities in Russia and in bordering countries.

We are making a significant contribution to the success of hundreds of new construction and renovation projects in industrial and other sectors of the economy.

- ▶ oil and gas complex;
- ▶ oil and gas chemistry;
- ▶ metals and mining industry;
- ▶ precision engineering;
- ▶ banks and Data Processing Centres;
- ▶ development and construction;
- ▶ airports, railway stations, sea ports;
- ▶ communication and telecommunication companies;
- ▶ multifunctional, retail and office complexes;
- ▶ sport complexes and cultural institutions;
- ▶ food industry.

The up-to-date list of projects implemented by the Company is available on the Company's website: http://euroet.ru/realizovannie_proekti.

FEDERAL NETWORK OF ENGINEERING CENTRES

Link to activities map

PRODUCTION OF SWITCHBOARD EQUIPMENT (UNDER 1,000 V) IN VIDNOYE CITY (THE MOSCOW REGION)

Overall performance:

- ▶ Production area: 1 thous. sq. m
- ▶ A wide range of low-voltage complete devices is under production:
 - ▶ control stations switchboards,
 - ▶ input switchgears,
 - ▶ main switchboards,
 - ▶ switchboards,
 - ▶ storey switchboards,
 - ▶ lighting boards,
 - ▶ automatic load transfer cabinets,
 - ▶ control cabinets,
 - ▶ automatics cabinets.

Availability of all required certificates and approvals, including GAZPROMCERT certificate.

In 2018, the production volume amounted to:

- ▶ 220 switchboards (columns) of Prisma series with Schneider Electric element base;
- ▶ 157 switchboards (columns) with DKS company's design base;
- ▶ 185 switchboards with Rittal enclosures.

OWN WAREHOUSE COMPLEX IN VIDNOYE CITY (THE MOSCOW REGION)

Overall performance:

- ▶ Storage area: 1 thous. sq. m (floor area).
- ▶ Special warehouse equipment: two KOMATSU diesel-powered fork lifts of different capacity and lift height; OMG reach truck; hydraulic trolleys; storage racks of 5 and 9.5 m height; pallet balance.
- ▶ Storage possibilities: general-purpose heated covered warehouse; sheltered storage site; outside site.
- ▶ Proximity to traffic arteries: Kashirskoye high road – 1.5 km, Moscow Ring Road – 5.5 km, A107 (First Concrete Ring) – 28 km.
- ▶ Support of the Company's import/export transactions: acceptance and shipment of foreign contractors' cargos, in particular from Kazakhstan, Poland, United Arab Emirates, Kirghizia, Austria, the United Kingdom, Finland, Lithuania, Czechia, and Germany.

PRODUCTION OF POWER EQUIPMENT IN OMSK CITY

- ▶ Production area: 9.5 thous. sq. m
- ▶ High level of automation, up-to-date European equipment.
- ▶ Production of complete transformer substations and switchboard equipment of 6–35 kV:
 - ▶ 6–20 kV external complete transformer substations in metal and sandwich panel enclosures;
 - ▶ 6–20 kV modular complete transformer substations in concrete enclosures;
 - ▶ 35 kV transformer substations;
 - ▶ switchgears/points under 35 kV;
 - ▶ closed switchgears under 35 kV;
 - ▶ general substation control points;
 - ▶ 6–35 kV fixed and draw-out complete switchgears.
- ▶ Electrotechnical laboratory under 110 kV.
- ▶ Availability of all required certificates and permits, including the certificate of Self-Regulatory Organisation "SOYUZATOMSTROY", the Federal Security Service of Russia.

PRODUCTION OF OIL AND GAS EQUIPMENT IN UFA CITY

- ▶ Production area: 68 thous. sq. m
- ▶ Entire workflow cycle, wide range of products.
- ▶ High-level qualifications of scientists, designers, industrial engineers, and blue collars.

PRODUCTION OF ITS LIGHTING EQUIPMENT, THE MOSCOW REGION

- ▶ Being at Russian and CIS countries lighting market since 2012.
- ▶ Energy-saving light solutions of any complexity and for different spheres.
- ▶ Certificates of compliance with Russian and international standards.

MANUFACTURE OF INDUSTRIAL ELECTRIC HEAT TRACING SYSTEMS IN OREL CITY

Overall performance:

- ▶ Production area: 3 thous. sq. m
- ▶ Types of produced goods in simplified form (actual): self-regulating heating cables, fasteners, accessories.
- ▶ Plans regarding launch of new goods production in 2019 (planned): constant output heating cables, fasteners, accessories.
- ▶ Availability of all required certificates and approvals: Certificate of Technical Regulations of the Customs Union No. 012, HSE Certificate, Fire Safety Certificate.
- ▶ In 2018, the production volume amounted to: 10,000 km.



OWN R&D PROGRAM

Equipment category	Projects implemented in 2018
Switchboard equipment of any complexity (under 6,300 A)	<ul style="list-style-type: none"> ▶ A solution for Smart House systems has been developed together with Schneider Electric. ▶ A portfolio of standard solutions has been developed for the railroad substations of Moscow Metro State Unitary Enterprise. ▶ Standard solutions have been developed for the substation utilities of PJSC Rosseti. ▶ Standard solutions have been developed for power supply to Data Processing Centres of financial institutions
Transformer substations, MV cells	<ul style="list-style-type: none"> ▶ Substations for power supply and control of mud pumps have been developed for oil and gas customers. ▶ A reinforced anti-vandal construct of enclosures has been developed for containers substations. ▶ A special cell for non-nuclear (wind-driven) power generation of Rosatomb has been developed with significantly lower cost price and higher portability compared to other competitive proposals
Industrial electric heat tracing systems	<ul style="list-style-type: none"> ▶ Special complete sets for connection, entry and termination of self-regulating heating cable have been developed. ▶ A portfolio of standard assemblies for industrial electric heat tracing systems has been developed, which is in demand for designers. ▶ The fasteners for industrial electric heat tracing systems increasing speed and quality of installation processes and accessories have been developed and are used successfully
Electric lighting systems	<ul style="list-style-type: none"> ▶ A series of energy saving LED lamps for large shopping areas has been designed. The algorithms of combined lighting have been developed to decrease energy consumption in daily operation. ▶ Non-standard installation assemblies have been developed and manufactured for flood light lamps on mast supports at a landscape park of MEGA Ekaterinburg shopping mall. ▶ The devices to decrease disability glare have been developed and manufactured for a general flood light system at shopping areas of MEGA Khimki shopping mall. ▶ The customised structures of architectural suspension systems for lighting of food-court have been developed and manufactured for MEGA Kazan shopping mall. ▶ The thermal management schemes for the bodies of HSL, ES, CP accent lamps used for shopping area lighting have been improved. ▶ External architectural lighting control systems have been designed for Hill8 Apartments Complex, City – 21th Century, as well as control systems for internal RGB-lighting at food-court of MEGA Kazan shopping mall. ▶ LED lamps have been developed and manufactured for reconstruction of Lotte Plaza complex. ▶ The surveys have been conducted regarding influence of new types of spectrum on growing of popular crop varieties in greenhouses. Phyto lamps with optimized spectral-response characteristics for sheltered ground have been manufactured
Equipment for oil, gas and petrochemical industries	<ul style="list-style-type: none"> ▶ Creation of a range of innovative equipment for petrochemical and energy industries is a critical technological achievement of the Company making a base for future multi-fold increase of the Company's EBITDA indicator in the next years. ▶ Implementation of early oil and early separation of initial water principles. ▶ Modular container equipment for oil and gas pumping and processing system