Electrical Equipment and Comprehensive Power Grid Solutions
About us

Joint-Stock Company Rusatom Automated Control Systems (JSC RASU) is a subsidiary of State Atomic Energy Corporation Rosatom. The key task for RASU is to consolidate the production assets and innovative technologies of the nuclear industry in order to provide customized comprehensive solutions covering the whole lifecycle of the product: from design and manufacture to commissioning, maintenance, retrofit and modernization.

RASU is the single integrator of ROSATOM in the following areas:

• process automation (I&C)
• electrical equipment (EE) manufacture and supply
• turnkey design and construction of power grid facilities

Our advantages

• Advanced solutions proven by failure-free operation at critical facilities—nuclear power units in Russia and abroad
• Expertise and experience in implementation of complex large-scale projects
• Support for the products and facilities at all lifecycle stages
• Optimal project implementation time
• Flexible customized financing conditions
• Access to the leading Russian and global technologies and developments

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RASU—
the team of highly qualified professionals

Average age of employees — 37 years
We are vigorous, ambitious and responsible

www.rasu.ru
The dedicated companies work together to implement contracts of various scale (EPC/EPCM) in the electric power industry.

- Manufacture and supply of electrical equipment for nuclear and non-nuclear markets
- Turnkey engineering and construction of power grid facilities (substations, overhead lines)
- Development of new types of equipment together with the Customer, or adapted for the Customer, and launch into manufacture
- Establishment of the R&D policy for electrical equipment

Construction of power grid facilities
We build substations and overhead lines of various power on a turnkey basis, and ensure utility connection.

Main services
- General designer services, development of basic and detailed design documents
- Full-scope supply of power equipment and secondary systems
- Implementation of general contract for construction, installation and commissioning works
- Maintenance services, including 24/7 technical support
- Modernization and retrofit

Additional services
- Pre-project inspection and justification of investments
- Fundraising
- Obtaining the technical specifications and land planning
- Support in the expert review of design documentation
- Training for the operational personnel

Products and services

Primary equipment
- Low voltage switchgear
- 6–10–20 kV AC switchgear
- 100/35/10/0.4 kV packaged transformer substations
- DC boards
- 110–220 kV current and voltage transformers

Secondary equipment and systems
- I&C and telemetry systems
- Relay protection and automation
- Mosaic panels
- Workstations
- Control room full-scope simulators

Companies of the nuclear industry—developers and manufacturers of equipment and systems

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Companies of the nuclear industry—developers and manufacturers of equipment and systems
Modernization of thermal power plants as top priority

30–40% cheaper than new equipment

10% increase in cost-efficiency and performance of the power unit

Life extension for 20–30 years

Warranty service and maintenance

We offer deep comprehensive modernization of thermal power units with the installed power up 300 MW equipped with well-proven turbine generators.

Our equipment

Conventional equipment

110–500 kV SF6 switchgear and bus ducts

110–220 kV vacuum circuit breakers (dead-tank and live-tank) based on the proprietary arc chute

Bust ducts with air insulation of generator voltage

Modular and mobile 110–220 kV substations, modular diesel generator sets up to 6 MW

Innovative equipment

“Digital Substation” software & hardware complex

Automated electrical equipment monitoring and diagnostics system

Superconductor cable and current limiter

Superconductor energy storage unit

Modernization is based on the technologies of CKTI (for boilers and turbines) and VEI (for generators)

A pilot project in hydro power will be implemented at Primorskaya hydro power plant Unit 7 (RusHydro)