



THE BEST SOLUTIONS
FOR OIL AND GAS INDUSTRY



STC ENERGOAVOMATIZATSIYA, LLC
PRESENTATION



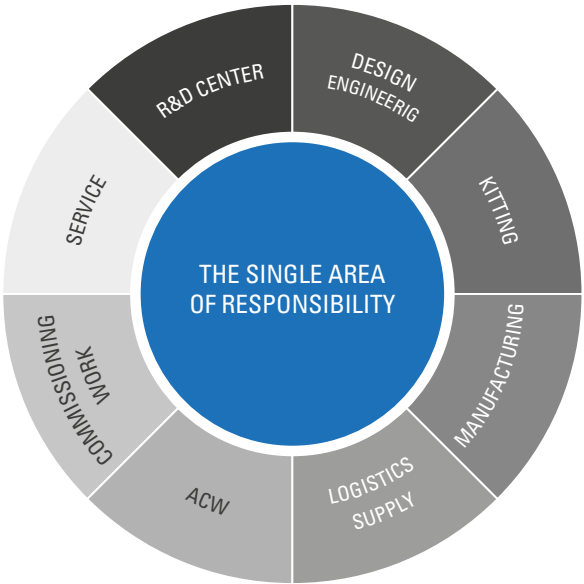
ABOUT THE COMPANY

Scientific and Technical centre ENERGOAVOMATIZATSIYA, LLC was represented on the engineering service market in 2015. It is a system integrator of comprehensive solutions in the field of automation of technological processes and supply systems during construction, remodeling and reconstruction of oil and gas enterprises.

Acting as the General contractor for automation and power supply (MAC/MEC-Main Automation/ Electrical Contractor), the company takes responsibility for system integration of solutions, project lifecycle management and ensures effective coordination of all project participants.

RESOURCES

STC ENERGOAVOMATIZATSIYA, LLC guarantees the prompt mobilization of competencies and resources within the framework of a single area of responsibility for providing the end customer's facilities with comprehensive solutions in the field of automation and power supply.



- Project management department
- Center for development of innovative solutions
- Test center
- Highly qualified engineers and technicians
- R&D Center
- Procurement and supply of equipment department
- Construction management department

The Company's approach is based on many years of experience, lean business processes, standardized requirements and control at all stages of the project life cycle.



The total number of employees is more than 1000 people



Test center is 350 m²



Production facilities are 3 200 m²



Storage area is 10 000 m²



MAIN ACTIVITIES ARE



Project management (time, budget, resource, risk management)



Front-end engineering design, development of uniform technical characteristics and concepts



Design of automation and power supply systems for industrial - purpose facilities, designer's supervising



Manufacture, supply of main and auxiliary equipment, including automation and power distribution facilities



Construction and installation (installation supervision) of equipment in accordance with the developed project



Commissioning of production machinery and facility automation systems



Commissioning of construction facilities, maintenance and operation, after-sales service of the supplied equipment

TOOLS AND PROJECT MANAGEMENT METHODOLOGY

- Project implementation plan development
- Unified document flow, digital communications
- Responsibility matrix
- CCRS map development and risks assessment during the project implementation with an action plan to minimize and eliminate the consequences
- Development of project network schedules up to the 3rd level
- Control over the execution of design solutions, analysis of deviations according to the network schedules of the project
- Management of supplies and implementation of construction and installation works and commissioning
- Project implementation schedule management
- Budget performance monitoring



Effective management of project state at all life cycles, using the integrated information system Synergy Project Management.

DESIGN ENGINEERING

STC ENERGOAVTOMATIZATSIYA, implementing a multifaceted approach, carries out the design engineering of automation systems and power supply for construction, modernization and reconstruction of facilities for the processing of hydrocarbons.

The experience of implemented projects, the acquired competencies as a general contractor for automation and power supply, allow optimizing and unifying design solutions and effectively organizing the implementation of all stages of design engineering.

- Development of concepts and general technical solutions
- Development of uniform technical requirements
- Application of 3D models in the design engineering of production facilities
- Use of modern CAD design tools
- Mathematical modeling of physical and chemical processes of production facilities
- Unified library of algorithms



MANUFACTURING

The manufacturing site of **STC ENERGOAVTOMATIZATSIYA** is equipped with modern equipment, tools and accessories, allowing to give high-quality solutions in the field of automation and power supply.

On the territory of manufacturing, there is a testing ground for acceptance testing of products with the possibility of the presence of the Customer's representatives.

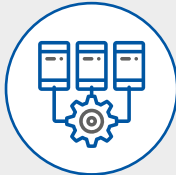


DESIGN BUREAU



A staff of highly qualified designers and technologists was formed

TEST CENTER



Electrical and metrological laboratories.

Test bench for automated systems

QUALITY CONTROL



Control is carried out at all stages of the production cycle

All operating procedures are carried out in strict accordance with certified technologies that ensure a high level of quality of manufactured products.



INTEGRATED SUPPLY

STC ENERGOAVTOMATIZATSIYA, LLC has all the necessary competencies and extensive experience to provide equipment and materials for any process facilities for the production, transportation, storage and processing of oil and gas.

Our company is a comprehensive supplier of equipment for industrial automation systems, power supply, metrology, communications and fire safety. Cooperation with leading equipment manufacturers (ABB, Schneider Electric, CHETA, NIPOM, SVEL, KRUS-Zapad Company, Emerson / Metran, Siemens, Yokogawa, Prosoft, Endress + Hauser, SICK) allows the Customer to obtain additional benefits in the construction of complex multi-level projects.

- Effective supplier management
- Experience in working with large customers
- Developed logistics system
- Organization of acceptance test of materials and equipment at the facility
- Implementation of quality control tests and supervision over the equipment production

ACW / START-UP AND COMMISSIONING WORKS

STC ENERGOAVTOMATIZATSIYA, LLC performs a full cycle of installation supervision and construction works as well as work to ensure the commissioning of the facility.

- Modern material and technical base
- «Online» resource control (GPS tracking)
- Full package of approval documentation
- System of internal construction supervision
- Multi-stage construction compliance monitoring (QC) of the entire cycle of construction, installation and commissioning
- Preparation and delivery of as-builts to the Customer

We ensure constant interaction with the Customer at all stages of the relationship in order to maximize effective cooperation.



Compliance with all labor protection and industrial safety standards is an important component of the work of our Company, which minimizes the risk of emergency situations and ensures the preservation of the life and health of our employees.

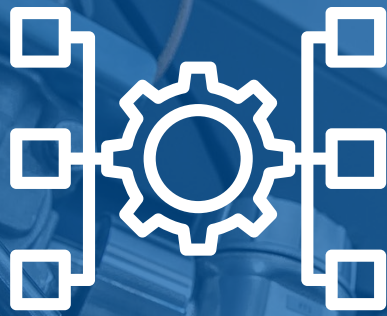


SERVICE MAINTENANCE

STC ENERGOAVTOMATIZATSIYA, LLC offers operational maintenance and operational management of automation and power systems at the Customer's facilities, providing:

- Technical support and maintenance of the supplied equipment
- Warranty and post-warranty service of the supplied equipment with the possibility of providing an extended warranty period
- Operational maintenance of equipment, including repair, operational and maintenance (including third-party equipment)
- Outstaffing of operating staff

CONCEPTS AND SOLUTIONS



AUTOMATION, METROLOGY, COMMUNICATION SYSTEMS

- Unified multi-level automated process control system (APCS) which most fully meets the «Technology + Automation» approach
- Automated fire alarm, gas hazard monitoring and fire-fighting
- Highly integrated control systems (horizontally and vertically scalable)
- Automatic control system
- Emergency shutdown systems
- EC&I
- Communication and video surveillance networks
- Metrological support
- Information security
- Functional safety

CONCEPTS AND SOLUTIONS



ELECTRICAL EQUIPMENT AND POWER SUPPLY SYSTEMS

- Distribution networks of low / medium / high voltage
- Cable routes and overpasses
- Grounding and lightning protection
- Lighting and power outlets
- Electric heating and insulation systems
- Corrosion protection (ECP)



STC ENERGOAVTOMATIZATSIYA combines design engineering, construction and commissioning processes into a single cycle, constantly improving internal business processes, quality control system, mechanisms of interaction with the Customer and partners within the extended management model.



Experience in project implementation in the role of MAC / MEC



Experience in working with global licensors



Professional team and powerful resource base



Strategic partnership with major vendors



Multifaceted approach to the implementation of design solutions



Application of digital twins and computer training complexes



Development and application of 3D models



Application of local positioning technologies

EXPERIENCE



Liquefied Natural Gas Production, Storage and Shipping Complex in the Vicinity of CS Portovaya



Condensate stabilization tower of the Achimov deposits located in Nadym-Pur-Taz region (CST)



Reconstruction of Booster Compressor Station at Urengoy condensate pre-transportation preparation plant (ZPKT) to provide raw materials for the Novy Urengoy Gas Chemical Complex



Installation of Deethanization gas treatment unit at the Urengoy condensate pre-transportation preparation plant (ZPKT)



Reconstruction of stage II facilities at the Urengoy condensate pre-transportation preparation plant (ZPKT)



Novy Urengoy gas and chemical complex development



Propane- propylene fraction (PPF) fractionation unit at JSC Gazprom neftekhim Salavat



Process condensate purification facility at the Gazprom Neft Omsk Refinery



The Yuzhno Kirinskoye gas and condensate field development



The Amur Gas Processing Plant





WE DO NOT OFFER PRODUCTS AND TOOLS - WE OFFER SOLUTIONS!

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