

PROFESSIONAL ENGINEERING EQUIPMENT

WATER SUPPLY WATER TREATMENT WATER DISPOSAL HEAT SUPPLY

Comprehensive engineering

- Audit and engineering design
- Supply and production of equipment
- Installation supervision and commissioning
- Maintenance services



About the Company

Since 2011, Energostan LLP has been supplying high-quality equipment for water supply, water treatment, wastewater disposal and heat supply to industrial, corporate and retail sectors across Kazakhstan. The company provides a full range of services including engineering design, installation supervision, and maintenance support for equipment at any location nationwide.

Over the years, the company has established itself as a reliable provider of energy-efficient engineering solutions and resource-saving technological systems for facilities of various scales and purposes. With all the necessary resources at its disposal, Energostan LLP is capable of delivering large-scale projects as a trusted partner with proven engineering expertise.

Our experience and the qualifications of our specialists enable us to offer thoroughly developed technical solutions tailored to the specific needs of our clients, while systematically optimising their operational costs. Thanks to direct dealership supplies and in-house manufacturing, we offer each corporate client the most favourable terms and delivery timelines.

We welcome you to collaborate with us!



Main areas of activity

Cost-effective solutions for projects of any complexity

Energostan LLP carries out the full cycle of works for the modernisation of existing systems and the installation of new equipment for water supply, water treatment, wastewater disposal, and heat supply. Our services cover a wide range of facilities – from private households and residential complexes to social institutions, government buildings, and industrial sites.

TECHNICAL AUDIT AND
ENGINEERING DESIGN

COMPREHENSIVE SUPPLY
OF EQUIPMENT

OWN PRODUCTION
OF EQUIPMENT

INSTALLATION SUPERVISION
AND COMMISSIONING

AUTHORIZED
MAINTENANCE SERVICES

«Turnkey»

Comprehensive engineering

01

Formulation of energy-saving technological solutions aimed at reducing operational costs • Design and optimisation of process flow diagrams • Selection and specification of appropriate equipment • Preparation of audit reports, technical specifications, and task briefs for related departments

02

Full and punctual delivery of all required equipment and components for the project site • Cost reduction through direct dealer pricing • Guaranteed quality, safety, fault-free operation, high performance, and equipment compatibility

03

Skilled installation and prompt connection of equipment • Start-up and fine-tuning to ensure stable and reliable operation • Consulting and training of personnel in the operation of engineering systems

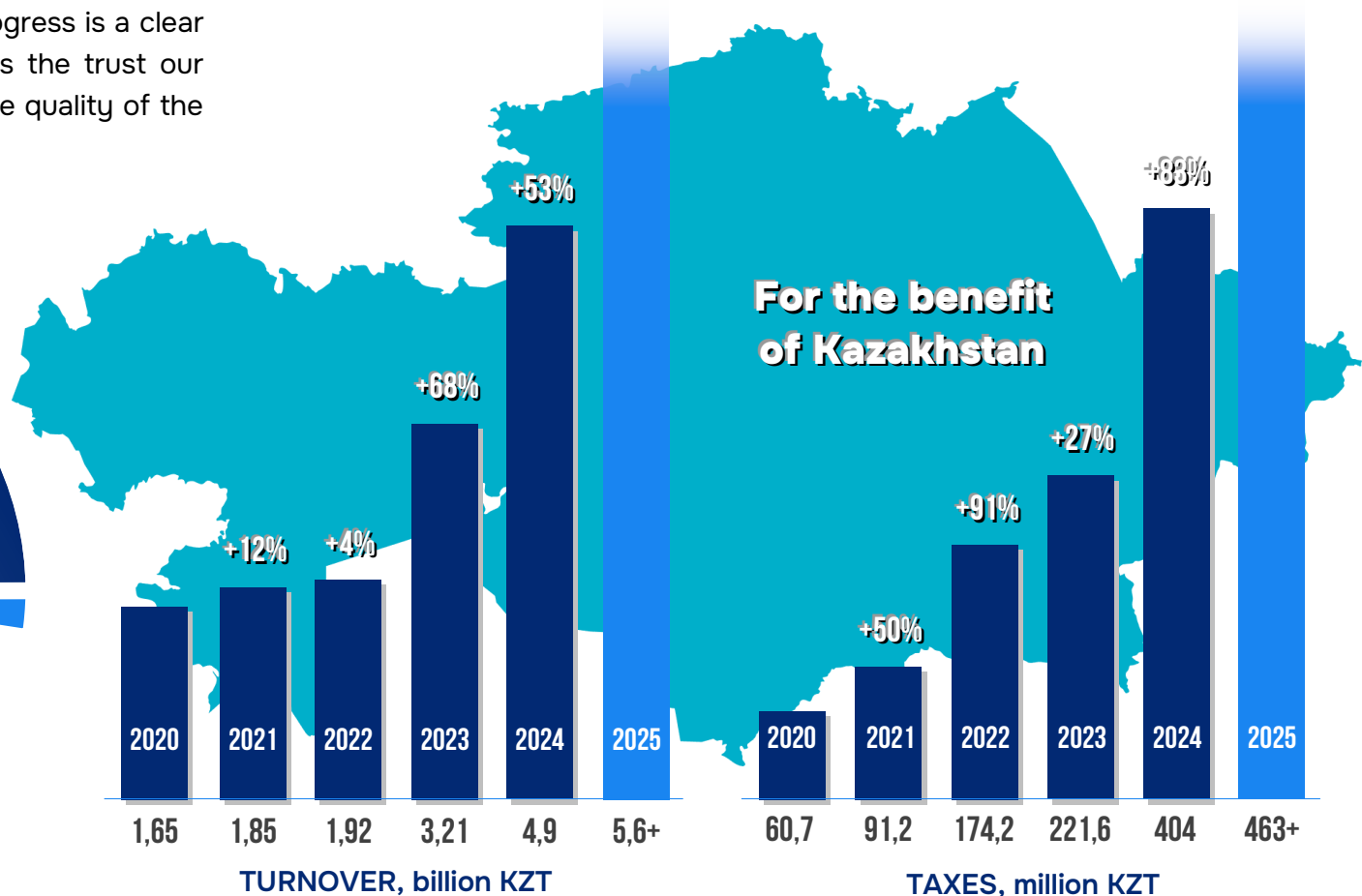
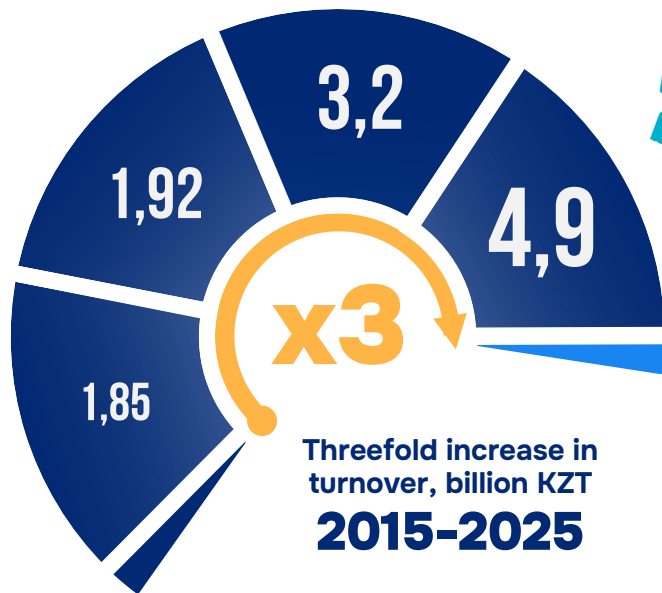
04

Warranty and post-warranty repair services • Specialised branded technical maintenance • Genuine repair kits and spare parts • Ongoing customer support throughout the equipment's operational lifecycle

Growth indicators

Stability – the foundation of reliable partnership

The Company's year-on-year growth and dynamic development reflect its rapid advancement across Kazakhstan's specialised markets. This progress is a clear indicator of corporate stability, as well as the trust our clients place in our professionalism and the quality of the equipment we supply.



Certificates

Company is officially certified as an authorised dealer and service partner of leading international manufacturers. The safety and quality of our products – as well as their compliance with international, national, and industry-specific standards – are confirmed by certificates issued in the Republic of Kazakhstan and declarations of conformity within the EAEU (Eurasian Economic Union).



Key partners



Austria



Denmark



Germany



Italy



China



Russia



Turkey



France



Czech



Switzerland



Modern technological solutions for infrastructure modernisation

Energostan LLP (Kazakhstan) and PPK Grad LLP (Russia) have successfully combined their many years of industry experience and the competencies of two leading companies from neighbouring countries into a comprehensive system for the development and effective implementation of modern, expert-level integrated infrastructure solutions on a large scale in major Kazakh cities and agglomerations.

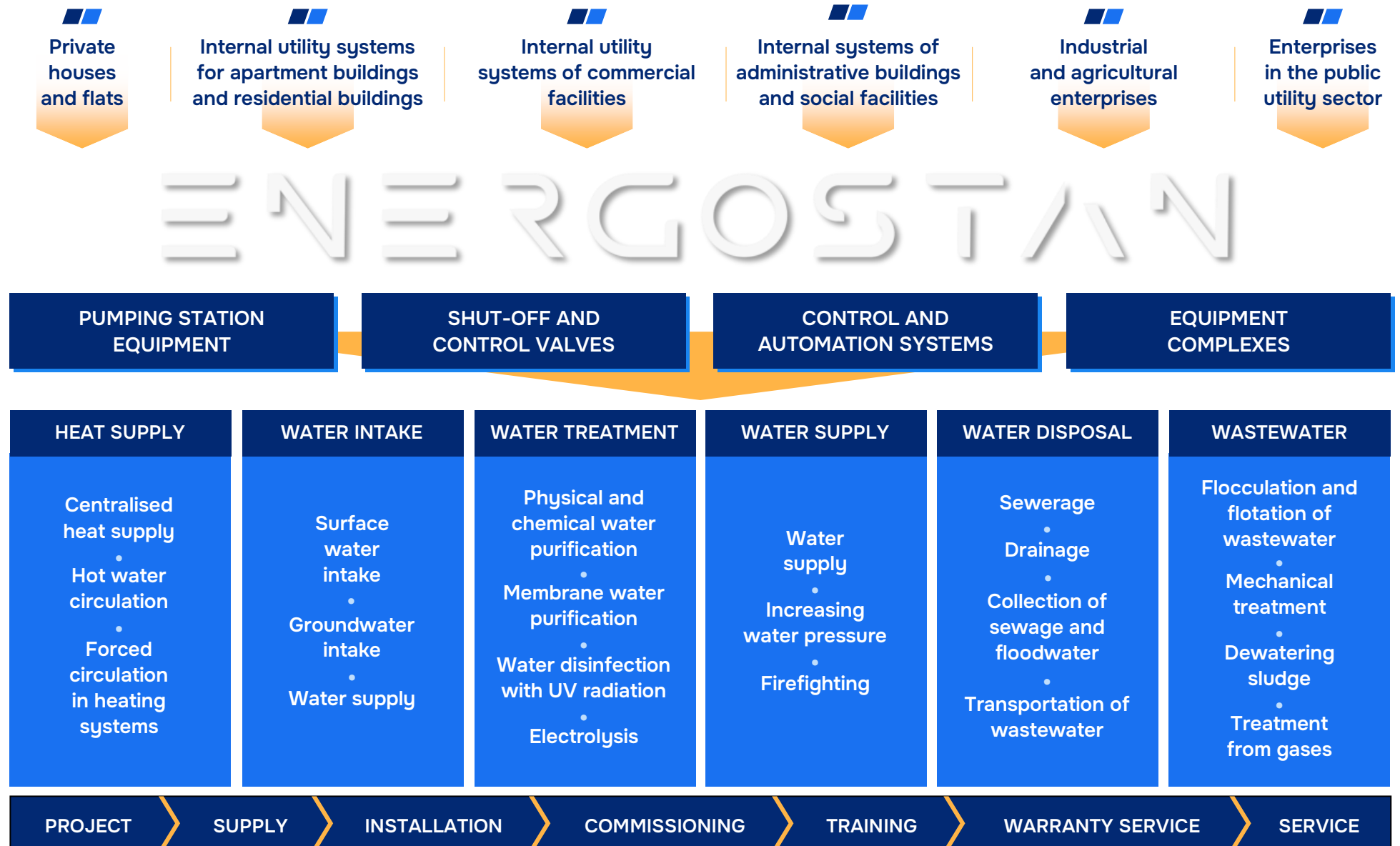
This professional partnership has resulted in a unique offering of comprehensive engineering support for regional development: the design and implementation of resource-saving water supply, wastewater disposal and sewage treatment systems at all stages of project implementation – from the concept of regional development to the commissioning of facilities.

РПОД.
OVER 20 YEARS IN THE MARKET

INCLUDED IN THE NATIONAL REGISTER
OF DESIGNERS OF THE RUSSIAN FEDERATION IN
THE FIELD OF WATER SUPPLY AND SANITATION



Scope of equipment application



Solutions for industrial and domestic engineering systems

Our Company offers a full range of high-performance, energy-efficient pumps for the collection, supply, pumping and circulation of water in heating, water supply and disposal systems.

CENTRALISED HEAT SUPPLY

TPP, boiler houses

- Feed pumps
- Condensate pumps
- Network pumps
- Ash and slag removal pumps

CHS, BPS

- Make-up pumps (feed)
- Circulation pumps
- Booster pumps



WATER SUPPLY AND TREATMENT

Water intake

- Submersible pumps
- Semi-submersible pumps
- Axial pumps
- Console pumps
- Self-priming pumps

Water treatment

- Dosing pumps
- Booster pumps

Water supply

- Double entry pumps
- Console pumps
- Booster pumps



WATER DISPOSAL AND WASTEWATER

Flood protection

- Axial pumps

Wastewater treatment

- Sewage pumps
- Drainage pumps
- Axial pumps
- Screw pumps
- Submersible recirculation pumps

Transportation

- Sewage pumps
- Drainage pumps
- Axial pumps



INTERNAL SYSTEMS OF BUILDINGS

Heating system

- Circulation pumps
- Console pumps
- Wet rotor pumps

Water disposal

- Sewage pumps
- Drainage pumps
- Water disposal pumping units

Increasing water pressure

- Pressure boosting stations
- Console pumps
- Booster pumps

Firefighting

- Fire extinguishing stations
- Diesel fire extinguishing stations
- Jockey pumps



Centralised heat supply

Highly reliable pump units for central heating systems

The energy-efficient pumping equipment supplied by the Company is used in all primary and auxiliary heat supply processes: stable water supply and replenishment, heat transfer fluid circulation in the system, excess condensate drainage, and pressure increase in the network.



HEATING NETWORKS



/// Pump equipment regulates circulation and pressure differences in the heating network, ensuring optimal transport of the heat transfer medium from the heat source to consumers and back along hydraulically closed circuits.

BOOSTING PUMPING STATIONS



/// Cascade automated pumping systems are connected to main heat supply networks to pump heat transfer fluid to end users and regulate the hydraulic regime (pressure) in the network.

TPP (THERMAL POWER PLANTS)



/// Systems with exceptional operational reliability for primary and auxiliary technological purposes: feed, condensate, make-up, and network pump units with low life cycle costs.

BOILER ROOMS



/// Pumping equipment of various types as part of a single functional complex that ensures the supply, movement and replenishment of water in the system, condensate drainage and heat transfer fluid pumping, and slag removal.

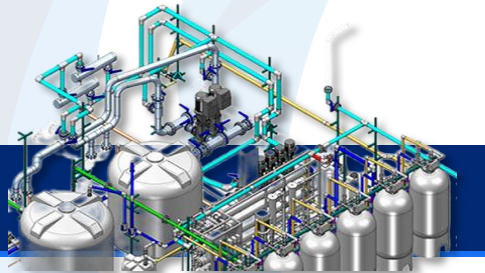
Water treatment systems

Comprehensive solutions for water purification and disinfection

Company supplies cutting-edge technological equipment with varying capacities to ensure water quality meets the specific requirements of industrial end-users as well as regulatory standards for domestic use.



PHYSICAL AND CHEMICAL WATER PURIFICATION



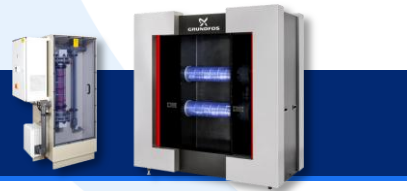
Water purification plants for removing suspended inorganic impurities, salts and organic inclusions to specified microbiological, hydrochemical and other quality indicators and parameters.

MEMBRANE WATER PURIFICATION



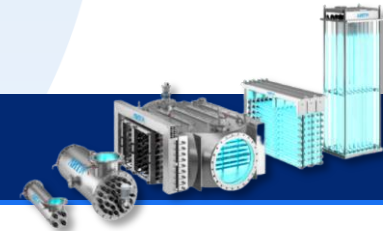
Fine membrane purification units pass water through micro-, ultra-, and nanopores of membrane filter fibers and reverse osmosis membranes, achieving a high degree of water purification.

DISINFECTION WITH SODIUM HYPOCHLORITE



Equipment for producing low-concentration sodium hypochlorite from a safe source material (salt) and dosing it into the flow of treated water disinfects water using the chlorination method.

DISINFECTION WITH UVC RADIATION



Equipment for biocidal water disinfection: an effective and safe method based on the destruction of bacterial and viral DNA by ultraviolet UVC radiation with a short wavelength of 254 nm.

Technological solutions for wastewater treatment

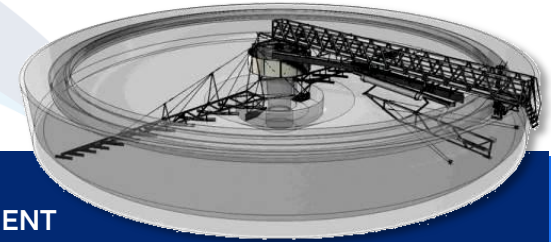
Energostan LLC offers customized and combined solutions depending on the composition of contaminants, the required degree of wastewater treatment, technical conditions, and the capacity of treatment plants.

WASTEWATER FLOCCULATION



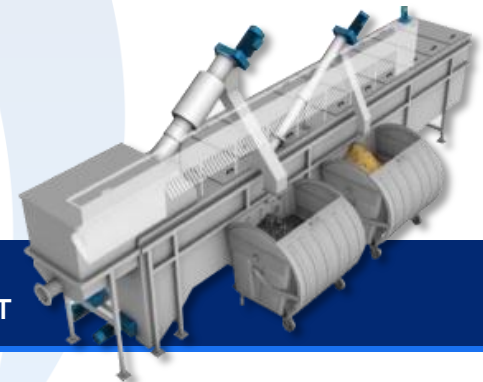
Units for preparing a working flocculant solution and feeding it into the system with a dosing pump at wastewater treatment plants: three internal sections are separated by overflow partitions and equipped with mixers for preparing, maturing and accumulating the finished flocculant solution before dosing.

BIOLOGICAL WASTEWATER TREATMENT



Biological wastewater treatment is provided by a combination of special structures and equipment – aerotanks, settling tanks, aeration systems, silos, mud scrapers, where wastewater is mixed with circulating activated sludge, as a result of which organic matter is removed during the vital activity of microorganisms.

MECHANICAL WASTEWATER TREATMENT



Rake, drum, vertical grates and combined units of mechanical wastewater treatment (post-treatment) separate wastewater from solid and suspended particles to prepare the waste water for the stage of subsequent finer physico-chemical or biological treatment.

Wastewater treatment systems

WASTEWATER FLOTATION



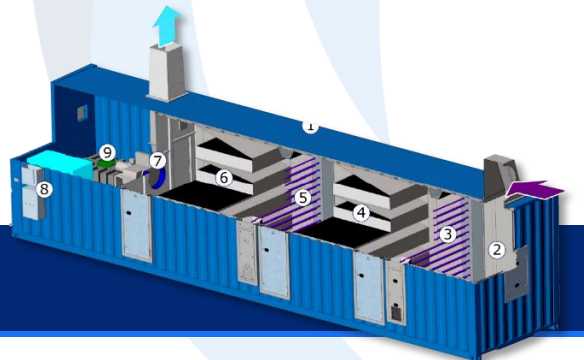
High-performance air blowers (high-speed turbo-compressors) for pumping powerful air flows under pressure are used for aeration of water, wastewater, air flotation, supplying combustion air and flue gas desulphurization.

DEWATERING WASTEWATER SLUDGE



Decanters for sewage stations and treatment plants dewater sewage sludge by means of mechanical centrifugal separation of substances of different densities using a horizontal centrifuge with continuous screw discharge.

TREATMENT FROM GASES



Gas cleaning complexes for public utilities, sewage pumping stations and treatment facilities effectively remove foul-smelling substances from ventilation emissions and neutralise harmful gas components.

AERATION SYSTEM



Agitators, aerators, submersible ejector aerators, sludge scrapers, and sludge suction devices for treatment plant settling tanks are used for comprehensive mechanical treatment of domestic and industrial wastewater, removal of sediments and activated sludge from the bottom of settling tanks.

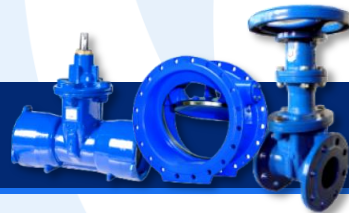
Related equipment

Shut-off and control valves, automation of engineering systems

Our Company provides customers with a wide range of related equipment and components for controlling liquid flows and automating water supply, heating, drainage and water circulation processes in modern engineering systems for industrial and domestic facilities.



SHUT-OFF AND CONTROL VALVES



/// A wide range of shut-off and control valves for shutting off flow and controlling the pressure, direction and velocity of liquid media:

- Wedge gate valves
- Rotary valves
- Control valves
- Air valves
- Check valves
- Knife gate valves
- Shield valves
- Hydrants

CONTROL AND AUTOMATION BOXES



/// Control of technological equipment and processes in manual, semi-automatic or fully automatic modes in accordance with specified parameters, diagnostics and monitoring of trouble-free and safe operation of engineering systems is carried out using control and automation cabinets with various technical characteristics.

Customised engineering design and production of equipment

Energostan LLP produced various types of engineering equipment for centralised and local heating systems, water intake and treatment, water supply and wastewater disposal, based on individual designs (drawings) and specific customer requirements.

BLOCK-MODULAR PUMPING STATIONS



/// Container-type design of pumping equipment complexes for transferring liquid media with the possibility of automatic control over working processes.

WATER TREATMENT PLANTS



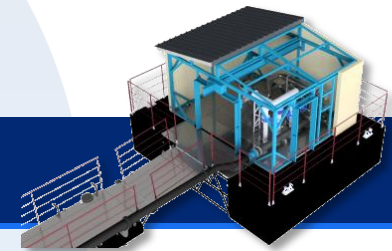
/// Water treatment equipment complexes for bringing water quality up to specified regulatory parameters for drinking, domestic or industrial consumption.

PUMPING STATIONS



/// Automated pumping equipment complexes of various capacities, providing water supply from an autonomous source with constant outlet pressure.

FLOATING PUMPING STATIONS



/// Block-modular pumping station for water intake from the surface of an open reservoir, with an above-water block box installed on pontoons submerged in water.

SEWAGE PUMPING STATIONS



/// Various types of engineering equipment complexes for collecting and pumping wastewater into sewers or local treatment facilities.

Service maintenance

Qualified technical maintenance of equipment

The Company's service department performs all types of work to ensure the effective operation of engineering equipment: installation supervision and commissioning, warranty service, technical service, diagnostics and repair of equipment in a rapid response mode.



SUPERVISED INSTALLATION AND COMMISSIONING WORKS

/// Supervision of installation is carried out by experienced engineers with extensive professional practice to ensure reliable operation of engineering systems for customers.

Supervision of installation guarantees the correct installation and connection of equipment in accordance with the requirements of technical documentation and safety standards before the first start-up of the equipment.

Test runs are carried out as part of commissioning works: precise adjustment of parameters within the range specified in the manufacturer's instructions, comprehensive debugging of equipment operation and training of the customer's personnel in the independent operation of engineering systems.

WARRANTY AND POST-WARRANTY SERVICE

/// EnergoStan LLP provides warranty and post-warranty service as an authorised service partner of engineering equipment manufacturers, using branded technologies and specialised equipment for diagnostics, configuration and repair of systems.

Only original spare parts, components, repair kits and consumables are used for equipment maintenance and repair, ensuring reliable and long-term trouble-free operation of engineering systems.

All service work is performed by highly qualified engineers who have undergone appropriate training at the equipment manufacturers' branded technical certification centres.



ENERGOSTAN

- Water supply
- Water treatment
- Water disposal
- Heat supply

The best solutions,
the shortest deadlines

Project and engineering

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