INTEGRATED SOLUTIONS FOR INDUSTRY

INNOVATION

RELIABILITY

QUALITY

DEVELOPMENT

25 YEARS
25 YEARS
OF EXCELLENCE
25 years ago, modern technologies seemed like a figment of a sci-fi movie. Today, cutting-edge telecom and digital systems open endless opportunities for communication and information exchange. Innovative materials and automated production lines allow the production of instruments and devices with unlimited lifespan. Smart technologies of the Internet of Things help with daily routine tasks, freeing up time for communication with our loved ones and for self-development. We learned how to spend our resources efficiently and obtain energy from alternative sources.

Just as the world around us has changed significantly, SST Group has evolved at a similar pace with the only thing remaining constant being our values and commitment to excellence. Over the course of 25 years, SST Group has been creating solutions to make the world a better place. Our systems and solutions create a new level of comfort for millions of people and a new level of security for thousands of companies. We are the number one in Russia and one of the world’s largest providers of residential and commercial heating cable solutions and industrial heat tracing systems, exporting our products to 47 countries.

We are open to fostering long-term partner relationships with those who share our values, consider innovation a key driving force within business, and wish to make their customers the number one priority.

We are proud of our achievements over the past 25 years and continue to strive toward making our world a better, safer place.

Michael Strupinskiy
CEO of SST Group
SST Group — Competence and Technology Centre

Founded in 1991, SST Group is the largest in Russia and one of the world’s largest providers of residential and commercial heating cable solutions and industrial heat tracing systems.

We are a national competence and industry expertise centre in the area of electric heating systems and heating cable based solutions designed for domestic, commercial and industrial use.

SST Group is a vertically integrated holding that employs over 2000 specialists. The Group encompasses four production plants, an industrial R&D centre, an engineering company, several distribution companies, and an international branch network.

We accompany each one of our products throughout every stage of the life cycle: from consulting & project design to serial production, servicing & post-guarantee service.

We provide our partners with competitive advantages by the means of exceptional service quality, innovative products, and comprehensive business development support.

SST Group facilitates the import substitution process in Russia as well as exports its products to 47 countries worldwide.

13 000 000 heating systems installed worldwide are produced by SST Group.

5 500 000 of temperature control equipment units produced by SST Group are used for operating heating systems.

The total length of heating cables produced by SST amounts to over 1 300 000 km, three times greater than the distance between the Earth and the Moon.
Group Structure

Manufacturing:

- SST Warm Floors
  Electric heating systems and electrical equipment: underfloor heating, thermostats, outdoor electric heating solutions.
- SDB Gamma
  Conductive plastics and self-regulating heating cables.
  Flexible stainless steel tubing and accessories.
  All types of heating cables, control cables, connection cables and other types of cables.

Sales:

- Teploluxe Group
  Electrical heating systems and electrical equipment: underfloor heating, thermostats, outdoor electric heating solutions.
- SST Energomontage
  Electrical Systems and Technologies
  SST Belarus
  SST Kazakhstan
  SST Ukraine
  i-warm GmbH
  warm-on GmbH
  SST GmbH

Engineering:

- SST Energomontage
  The largest Russian provider of turnkey solutions in the area of electric cable heating, thermal insulation and electric engineering.
  The company is a recognized expert in design, installation, start-up and commissioning of cable heating systems.
Products manufactured by SST Group exceed their foreign equivalents in terms of quality and reliability, at the same time being competitive in terms of price. Over many years, our systems have been employed in strategic sectors of the Russian industry.

SST Group is included in the List of Organisations which pose significant influence on the Russian industrial and trade sectors, and executes the Plan of activities in terms of import substitution within the electric machine building industry, cable and electrotechnical industry of the Russian Federation, as authorized by the Russian Federation Ministry of Trade and Industry order No. 653 effective as of March 31, 2015.

In accordance with the State Import Substitution Agenda, SST Group launched the first Russian domestic production of conductive plastics and self-regulating heating cables, expecting to displace the majority of such imported products on the Russian market by 2017.

For many years, SST Group design engineering department has been functioning as an industrial design-engineering institute. Our customers are able to access thousands of design and engineering solution templates to use at their own facilities. SST Group specialists act as consultants and technical experts in the design of practically every electric heating system that is developed in Russia.

The launch of local production of conductive plastics and self-regulating heating cables lays the foundation for increasing energy efficiency and technical safety of the fuel & energy complex in Russia.

| Electric heating systems of pipelines, tanks, technical equipment, including for use in explosive areas |
| Inductive resistive heating systems for extra-long, underwater and underground pipelines (SKIN systems) |
| Energy efficient heating technology for oil wells |
| Thermal insulation materials |
| Thermal shielding membranes for anti-corrosion and heat protection of equipment |
| Industrial electric heaters |
| Special purpose cables |
| Automated operating systems for electric heating |
| Switchboard equipment |

- 20 000 km of pipes are heated by SST systems.
- 500 km total length of extra-long electric heating systems based on skin effect.
- 10 years guarantee for SST electric heating systems.
SST Group is the national competence centre in the area of heating and insulation for industrial facilities. Our solutions for industry include all the necessary elements for heating systems, thermal insulation, and thermal protection of equipment. We also operate own Design Engineering Centre offering quality service and accompanying each of our systems at all stages of their life cycle.

SST Energomontage company, a division of SST Group, provides design engineering services, equipment sourcing and installation, startup & commissioning works, and servicing of electric heating systems of any level of complexity. Over many years, we have successfully collaborated with some of the largest Russian and international corporations in the oil and gas industry, such as Gazprom, Rosneft, Lukeoil, Transneft and Total.

Our portfolio comprises the following projects:

- The Eastern Siberia-Pacific Ocean oil pipeline (ESPO pipeline);
- The Yuri Korchagin, V. Filianovsky, and Zhdanov ice-resistant fixed offshore drilling platforms in the Caspian Sea;
- The Taman reloading terminal for liquefied petroleum gas, oil, and petroleum products;
- The Ust Luga loading complex;
- The Zapolyarny, Bovanenkovskoye and Haryaginsky oil fields;
- ...and many other sites of federal importance.

### Integrated Solutions for Oil & Gas Industry

- **Pre-project research**
- **Choosing technical solutions**
- **Modelling, building and customization of ACS (Automated Control Systems)**
- **Specialised construction and installation works**
- **Equipment procurement**
- **Design of energy efficient systems**
- **Monitoring of operating systems and technical equipment**
Our Projects

More than 8,000 heating and insulation system installation projects have been carried out by SST Group specialists for some of the largest Russian and overseas companies.

8,000 + projects carried out for oil & gas companies

Novatek
Ust-Luga reloading complex

ROSNEFT

LUKOIL

Transneft

Gazprom

Tatneft

Our Projects

Nakhodka

Kirkinskoye

Kirinskoye

ESPO oil pipeline

Tikhoretsk

The Yuri Korchagin ice-resistant fixed offshore drilling platform

The Yuri Korchagin oil field

Mamontovskoye

Prirazlomnoye

Zapolyarnoye

Yubileynoye

Yarkatinskoye

Zapolyarye-Purpe pipeline

Kinef

Usinskoye

Haryaginsky

Varandei

Bovanenkovo

Yamburg

Taman

Tamanneftegas

Novatek

Ust-Luga

LUKOIL

ROSNEFT

Transneft

Gazprom

Tatneft

8 000 + projects carried out for oil & gas companies
Our Projects

Bovanenkovskoye
Oil and Gas Condensate Field
Total length of pipelines and networks heated by SST Group is 342.6 km

Zapolyarny
Oil and Gas Condensate Field
Total length of pipelines and networks heated by SST Group is 265.2 km
Our Projects

ESPO (East Siberia – Pacific Ocean) oil pipeline. ESPO I, ESPO II

Total length of pipelines and networks heated by SST Group is 83.3 km.

Baltic Pipeline System (BPS I, BPS II)

Total length of pipelines and networks heated by SST Group is 10 km.
All SST Group systems and solutions for construction and building operation are reliable and energy efficient. They are compatible with various ‘smart building’ conceptual formats and can easily be integrated into a unified building automation system. Monolithic construction, power supply, fire suppression systems, making buildings and environments ice-resistant, creating a comfortable environment for pedestrians and vehicles — we provide you with reliable and sustainable solutions at every stage.

SST Group systems are integrated into the majority of large cities’ infrastructures. They are installed in thousands of buildings, including those of particular national significance: the Bolshoi Theatre, Kazan Kremlin, the State Duma of the Russian Federation, Moscow State Duma, the National History Museum, the Pushkin State Museum of Fine Arts and many others.
Our Projects

Thousands of buildings and infrastructure objects are equipped with SST Group systems and solutions, including those of national significance.

- Bolshoi Theatre
- Kazan Kremlin
- State Duma of the Russian Federation
- Moscow Duma
- Moscow Mayoral Office
- Central Bank of the Russian Federation
- Gostinyi Dvor
- National History Museum
- Pushkin State Museum of Fine Arts
- Chekhov Moscow Art Theatre
- Vnukovo Airport
Rail transport is of vital strategic importance for a unified economic system in Russia. Railroad communications ensure the stable operation of industrial enterprises and timely delivery of vital cargo to the remotest parts of the country.

Rail transport is one of the most accessible forms of transport for millions of Russian people.

SST Group has devised a set of technical solutions which provide reliable freight and passenger transportation within all climatic zones, increase comfort and vehicle safety, protection of passengers and service personnel, and efficiency of the railway engineering and logistical infrastructures.

SST Group solutions are employed to ensure safe movement of urban electric transport. The electric heating systems for crossover switches on tram routes are an important solution for transport infrastructures in Russian cities.

Considering the particular importance of rail transport for the Russian economy, all SST Group systems and solutions are manufactured with additional safety features and are subjected to rigid quality control standards.

**Solutions for Rail Transport**

SST Group solutions guarantee the safe running of rail and urban transport in all weather conditions.

<table>
<thead>
<tr>
<th>Solution Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric heating systems for crossover switches</td>
<td>Prevents freezing and icing during cold weather conditions, ensuring safe operation of railway switches.</td>
</tr>
<tr>
<td>Cables to ensure the functioning of train auto-safety features when going through tunnels between stations, transmission of dispatch signals, and running of centralized electrical crossover switches</td>
<td>Provides reliable power transmission and signal distribution, enhancing safety and efficiency.</td>
</tr>
<tr>
<td>Anti-condensation and anti-rust protection of reservoirs for petroleum products and metal structures</td>
<td>Protects critical infrastructure from corrosion and freezing, safeguarding the integrity of the transportation system.</td>
</tr>
<tr>
<td>Heating systems for process pipelines and technological equipment, reservoir parks, oil-loading racks</td>
<td>Heats critical components to prevent freezing and icing, maintaining the functionality of industrial systems.</td>
</tr>
<tr>
<td>Thermal insulation for pipelines, shut-off valves and various equipment</td>
<td>Provides heat retention, maintaining the operational temperature of pipelines and valves.</td>
</tr>
<tr>
<td>Protection for heating, water supply, and firefighting systems</td>
<td>Ensures readiness for emergency heating and protection against fires.</td>
</tr>
<tr>
<td>Main switchboards, input switching, control cabinets, and automation for water supply systems</td>
<td>Manages water supply systems efficiently, providing automatic control and monitoring.</td>
</tr>
<tr>
<td>Protective corrugated metal tubing</td>
<td>Protects electrical and water systems from external damage, ensuring durability and safety.</td>
</tr>
<tr>
<td>Special-purpose cables</td>
<td>Designed for specific applications, enhancing reliability and performance in complex railway systems.</td>
</tr>
<tr>
<td>Cables for transmission and distribution of electrical energy and electrical signals in fixed electrotechnical installations able to be installed in temperatures up to -60°C</td>
<td>Ensures reliable power transmission in harsh conditions, crucial for maintaining system functionality.</td>
</tr>
</tbody>
</table>

SST Group solutions guarantee the safe running of rail and urban transport in all weather conditions.
SDB Gamma, a division of SST Group, focuses on R&D and the development of high-tech systems. SDB Gamma’s specialists are highly experienced when it comes to research and deployment of unique customized solutions to ensure the seamless running of technical equipment and its protection from climatic risks as severe as those found in the Extreme North, in potentially explosive and harmful environments, at ice-resistant fixed offshore drilling platforms, in aircraft parts and components, and flying equipment for various applications.

Technical integration and a unified informational field allows SDB Gamma to use the full spectrum of SST Group’s technical and design engineering solutions, as well as access to all the testing results for materials and systems in extreme conditions. In its work, SDB Gamma uses SST Group vertically integrated plant manufacturing structure, which allows for efficient production of low-volume and niche products.

Solutions for Aerospace & Defence, Nuclear Power Sector and Shipbuilding

Gamma Special Design Bureau (SDB Gamma) develops and produces special technical solutions and systems for defence industry facilities, nuclear power, aviation and shipbuilding.
Innovations

The key development factor of SST Group is our constant search for new technical solutions and innovative approach.

Every year SST Group presents new products and solutions to consumers, created through development and research carried out at our own R&D centre.

SST Group occupies one of the leading positions amongst Russian industrial enterprises in terms of percentage ratio of technical and engineering personnel to that of the company’s total workforce. The majority of employees within the Group’s divisions have higher education, while many of the managers and leading specialists hold degrees in science. Our experts possess a wealth of experience in the area of product development, refinement and deployment, new technologies, evidenced by a multiple number of patents.

The majority of SST Group developments are innovations with an application in domestic and international industry. Our solutions ensure safe operating environments for strategic industries, while also providing a safer environment and favourable living conditions for local residents. SST Group products possess unique technical and operational characteristics, and fulfill all the necessary energy efficiency and ecological requirements.

Our Unique Developments:

- Conductive plastics for self-regulating heating cables
- Heating systems for IRSN 15000 extra-long pipelines (skin system)
- InWarm insulation coatings and materials
- Heating technology for underwater pipelines based on skin effect
- Ultra-thin heating mats for laminate flooring and carpeting (Teploluxe Alumia)
- Stream Tracer — energy efficient solution for heating oil wells to prevent formation of heavy oil deposits
- Neptun water leakage protection system
- Heating systems management software for mobile devices
- Teploflax Profi electric floor heating with a lifetime guarantee
SST Group possesses a unique experience in the development and serial production of high-tech devices and systems. The production capabilities of our plants, located in the Moscow Region, allow for the creation of pioneering solutions that make them market leaders both in Russia and worldwide.

Currently, our enterprises produce over 1,500 different types of products. The technological potential of our production facilities allows for a substantial increase in production volumes in a small time-frame. Our plants’ operations are fully synchronized, which allows for effective regulation of capacity utilization and prompt launch of new products’ serial production. Our equipment stock has been custom-made for SST Group by world’s leading machine-tool building companies.

SST Group plant in Mytishchi manufactures radio-electronic equipment and electric heating systems. Annually, we produce four hundred thousand heating systems for different purposes, for the manufacture of which we use more than fifty thousand kilometres of heating cables and three hundred thousand units of electronic equipment.

In 2007, SST Group opened one of the largest manufacturing facilities in the world for the production of electric heating systems and thermostats.

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Based in the Gamma Special Design Bureau SST Group set up the first production of conductive plastics and self-regulating heating cables in Russia.

The facility produces a matrix for high, medium, and low temperature cables, which is compatible with heating systems of all global manufacturers.

SDB Gamma’s production capacities allow for 7 thousand kilometres of self-regulating heating cables to be produced annually using its own matrix.

Self-Regulating Heating Cables

SST Group is the only Russian producer of conductive plastics and self-regulating heating cables.
The production of flexible corrugated stainless steel tubes under the brand name ‘Neptun IWS’ is carried out at SDB Gamma, part of SST Group. The plant produces both annealed and unannealed tubes from AISI304 high-alloy stainless steel, as well as tubes with special coatings. The plant capacity stands at 3 thousand kilometres of corrugated tubing per year.

Neptun IWS corrugated tubes and fittings have passed all testing in accordance with the designated fire safety requirements. In accordance with the test results of Neptun IWS tubes and fittings, it is recommended they are used for both water and foam fire-extinguishing installations. Testing was carried out at a certified fire-extinguishing equipment-testing laboratory at the Russian Federation EMERCOM State Firefighting Academy.

SST Group was one of the first companies in Russia to mass-produce corrugated stainless steel tubes for multipurpose usage.

Flexible Corrugated Stainless Steel Tubes

3 000 kilometres of corrugated tubing per year
Since 2004, the ISO 9001:2000 international quality management system has been implemented in SST Group. In 2013, the unified system of quality management adopted by SST Group was certified in accordance with the new requirements issued as part of ISO 9001:2008 and GOST ISO 9001-2011.

Ongoing multistage quality control of our products and constant refinement of the manufacturing process allows SST Group-manufactured products to surpass its overseas counterparts.

SST Group products have been certified in accordance with international standards by some of the largest European certification centres: VDE, SGS, Demko, and NANIO CCVE. Industrial heating systems manufactured by SST Group have been certified by the International Electrotechnical Commission as suitable for use in explosive environments (IEC Ex).
We export our products and solutions to 47 countries worldwide and are the global supplier for several of the world’s largest distributors and retail chains.

SST Group fosters long-term relations with trade companies on the grounds of responsible partnership and creation of optimal conditions for business development. We accompany each one of our products at all stages from production through to end-user. We take full responsibility for all of our products’ operational and servicing issues, which allows our partners to focus their efforts on business development.

For each of our partner categories there is a unique pool of services, taking into account the peculiarities of different distribution channels. We propose an optimal format for collaboration, for both international and federal retail chains, as well as for oil & gas equipment suppliers, specialist installation companies, and engineering enterprises.

Distribution

Handy tools for ordering online and tracking consignments

SST Group products are available online and can be tracked throughout the delivery process.

Tailored warehousing programmes

A network of distribution centres with full product range inventory

Efficient order batching in accordance with European standards

Delivery to stores or partner distribution centres within 24 hours

Guaranteed customer service throughout all countries where SST Group products are sold

Hotline and service centre for buyers

Promotional, marketing and technical support

Education and training for personnel

OEM serial production under the client’s brand name

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Social Responsibility

Our responsibility towards social wellbeing and development is not just limited to economic factors. SST Group regularly carries out a number of projects that have a significant positive social impact.

SST Group supports and develops social initiatives at municipal, regional, and federal levels. Our initiatives include an environmental awareness project in conjunction with the Moscow Zoo, several art projects in collaboration with the Mytishchi Art Gallery, and humanitarian action for veterans of the Great Patriotic War.

SST Group has devised a career guidance and development scheme for school pupils and university students. We offer support to senior school students aimed at helping them achieve higher technical education qualifications, to undergo practical training and start a career working in one of the Group’s enterprises. Since 2013, as part of the SST Group collaboration with the Moscow Energy Institute (MEI) National Research Institute (NRI), student Olympiads have been held at the SST Group Head Office. Over the past four years, around 900 students have competed the Olympiad at our premises. SST Group is actively engaged in collaborating with the Technical University at the Korolyov research and development facility, as part of which it has created a ‘Study Zone’ where students can carry out their practical studies.

We are proud of our R&D center developments and innovations, the cutting-edge technical solutions developed by our team, and of our projects implemented on both the national and global scale.

SST Group carries out a range of development programmes aimed at fostering innovation within marketing, technical and operational areas. In order to help employees gain more qualifications we run our own training centre.

We support employee initiatives, aimed at promoting an active and healthy lifestyle. SST Group regularly holds tournaments for various sports; our teams take part in regional and department competitions. In addition, through taking part in comedy show games, drama performances and photography workshops, our employees are able to realise their true creative potential.
Made in Russia, Delivered Worldwide

Fully compliant with all international quality and safety standards, SST Group products are exported to 47 countries worldwide.
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