

Engineering Solutions

Technical services based on tradition – a profile

- Concepts
- Projects
- Systems





Technical services based on tradition

GSB describes itself as a production/engineering company committed to providing quality service. We are a strong partner for all types of electrical equipment necessary for the installation, retrofitting and automation of industrial facilities.

Every aspect of our work and services is focused on our customer's requirements. Whether we are asked to build or modify medium- and low-voltage systems, retrofit switch trucks or adapt high-power bus bars, GSB finds suitable technical solutions for almost any type of problem.

Our team works out concepts independent of manufacturers, offering a one-stop solution even for complex problems. Function, quality and schedule effectiveness are always guaranteed.



GSB – Gesellschaft für elektrische Ausrüstungen mbH – arose in 1980 from an engineering firm which had been in existence since the early 1950s. Since then, the company has developed its own profile from a predominantly technical installation operation into a flexible partner for customised projects and tasks. Since 2001, the company has traded as GmbH & Co. KG (limited liability company and limited partnership).



One of our maxims: utmost care every step of the way to produce the right result.



GSB administration
and production facility,
Rommerskirchen

The success of our work is based on competent staff with many years of experience in plant construction. Our roughly 75 employees boast innovative skills, great engineering expertise and the necessary technical know-how in both production and installation. An integrated management system in accordance with DIN EN ISO 9001 and SCC guidelines guarantees a consistently high quality of our products and services.

Our team of about 75 employees includes:

- Qualified engineers / technicians / master mechanics
- Skilled tradesmen / fitters / site managers
- Commercial staff

Strategic fields of business

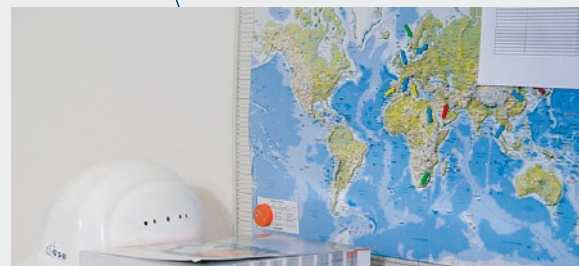
- Energy distribution medium voltage / low voltage (MV / LV)
- High-power rectifiers
- Maintenance and servicing
- Provision of know-how

Quality worldwide

GSB has been a reliable partner for the chemical sector, the general industry, power plants and energy supply companies for many years.

As part of the growth process of GSB, we have also, since 2000, been increasingly involved in international projects.

Our current customer base includes businesses and companies in other European countries as well as Africa and South and Central America. Further relations are maintained in the Near and Middle East, and – within the East Asian region – in Thailand, Malaysia and China.





Experience makes the difference in the quality of our work – and our product range.

GSB applies itself to meeting the individual requirements of its customers. Our service spectrum and know-how grows with the projects we implement.

Our service spectrum includes:

- Concept preparation and technical studies
- Planning, calculation and documentation
- Production, installation, safety testing and start-up
- Inspection, maintenance and retrofitting

Our services are available for a wide range of facilities:

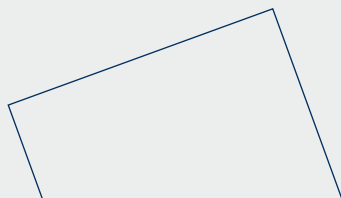
- Low-voltage and medium-voltage installations
- Transformers
- Reactive power compensation plants
- Cable systems
- Building installations
- Control cabinets for various applications
- Generator discharge units, auxiliary power supply, power plant service buildings
- Rectifier stations incl. control unit and cooling
- High voltage bus bars made of aluminium or copper

**Structured, clear, compact
– efficiency concentrated in
a wide range of products.**

Energy distribution

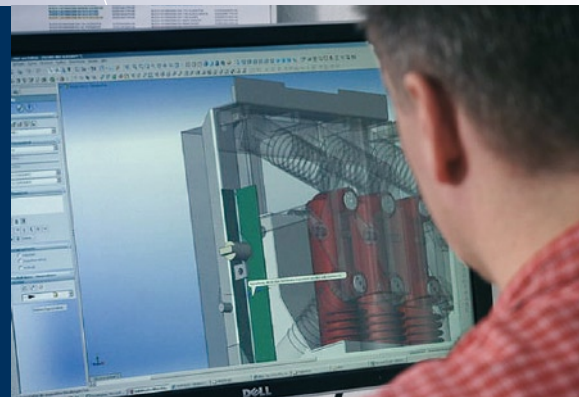
If you need a customised solution for electrical energy distribution – GSB will work out the concept and install the system:

- Delivery, installation and start-up of MV / LV systems
- Delivery and installation of cable and cable carrying systems
- Delivery, installation and start-up of Is-limiters
- Retrofitting of medium-voltage systems





Planning,
implementation,
start-up – all based
on strict quality
standards.



High-voltage rectifiers

Cooperating with ABB Schweiz AG, GSB provides rectifier stations including planning, design, installation, start-up, inspection and maintenance along with a 24-hour service.

Engineering services

We use our own engineers to provide you with studies, calculations, safety concepts, etc., and assist you in any switchgear projects based on the HOAI service phases (HOAI = Official Scale of Fees for Services by Architects and Engineers).

- Feasibility studies
- Concepts for switchgear replacement

Installation and service

In addition to our core business of installing MV and LV technology, GSB is also dedicated to delivering personal service. Whatever your need, our GSB experts are here to help – flexible, fast, worldwide.

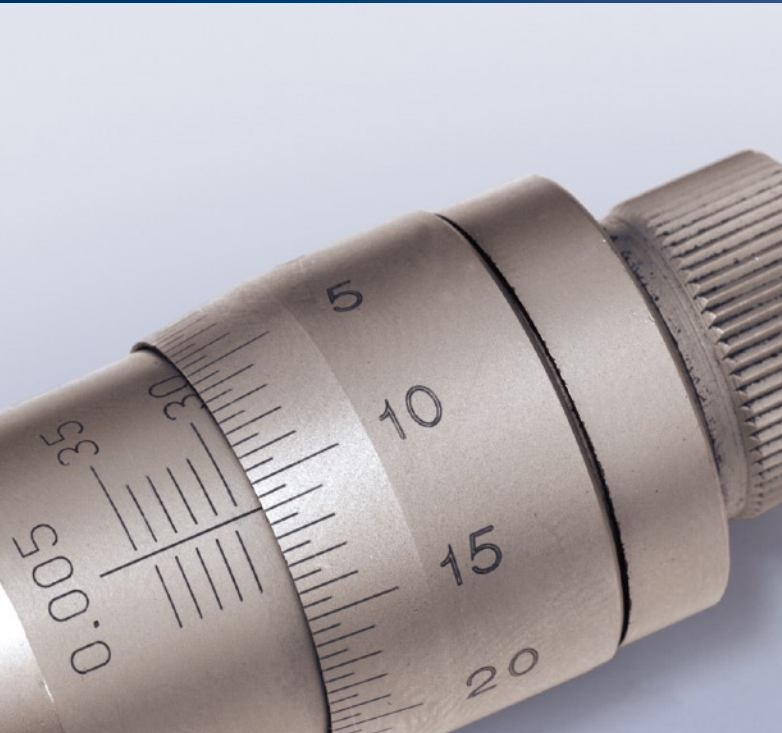
- Specialists as part of work and service contracts
- Specialists on staff assignment

Component supply

Operating independent of manufacturers, GSB is able to plan and source electrical components on good terms.

Maintenance, inspection and retrofitting

GSB carries out maintenance, inspection and retrofitting work on 10kV distribution grid stations. To avoid changeover and loss of supply for the customer, some of our cleaning and maintenance work is performed on live circuits (live-line work). Retrofitting the 10kV distribution grid station involves dismantling and subsequent installation of medium-voltage switchgear and low-voltage distributors including any incidental work required.



Quality

Integrated quality management system

With our profile as an “engineering service provider”, we perform in the industrial energy community as a reliable partner for our clients. For this, we rely on the individual expertise of each division in our company.

GSB has established an integrated management system in accordance with DIN EN ISO 9001 and consistently follows the SCC guidelines (Safety Certificate Contractors). This guarantees:

- consistent quality and constant improvement of our products and services
- optimal cooperation between all persons and resources involved
- meeting our legal obligations as detailed in §3 ArbSchG (Section 3, German Federal Labour Protection Law)

Safety – Health – Environmental Protection

The protection of our employees is our highest priority. This aspect along with concern for our environment and quality assurance are standards we live out daily at GSB.

SCC, i.e. Safety Certificate Contractors, is an integrated management system for the fields of safety at work, health and environmental protection. It accounts for the fact that businesses in the national and international environment increasingly use external providers for technical services.

Through the management of GSB and the performance of our employees, our company has a significant influence as a contractor / service provider on the safety, health and environmental protection (SHE) standards of our customers and, thereby, on their quality standards. SCC is an internationally recognised certification system (incl. MASE/F, SAS/CH, VCA/NL-B) which guarantees compliance with the high demands of the SHE standards.

Safety, health, environmental protection and quality management at a certified high level: the certificates.



Worldwide

References

It pays to expect the best standard of quality for our own products and services. The result is reflected in a wide and diverse customer base.

Project	Description	Customer
GT Brunsbüttel	Modernisation of power supply station: Project management, delivery, installation and start-up of the MV and LV switching stations	Vattenfall Europe, Hamburg
GTW Moorburg	Project management, delivery, installation and start-up of Is-limiters	Vattenfall Europe, Hamburg
Station 1 extension	Delivery, installation and start-up of an MV switching station	CDP Bharat Forge, Ennepetal
Station O 6	Retrofitting on 10kV switching stations (200 units)	Ineos, Cologne
KW Lausward / Flingern	Retrofitting on 6kV switching stations (55 units)	Stadtwerke Düsseldorf
Project E 8	Retrofitting on 12kV and 36kV switching stations (67 units)	NICICo Iran
Generator control Currenta	Planning and installation to modernise three generator control units	Siemens, Cologne
Main switching station	Periodic safety tests 5kV switching station	Vallourec & Mannesmann, Düsseldorf
Maintenance local substations	Maintenance of distribution grid stations in entire grid area	Stadtwerke Düsseldorf
Silex 09	Installation of a rectifier group, delivery and installation of a DC bus system	ABB AS, Oslo, Norway
MDI Train	Design, delivery and installation of a DC bus system	Bayer, Shanghai, China
Selangor	Installation of 2 transformers and 4 rectifier groups	SGL Carbon, Malaysia
Rheinbahn	Retrofitting and improvement of air-insulated medium-voltage switchboard sections	Elpro Berlin (end customer: Rheinbahn Düsseldorf)
Station 64.1	Installation of medium- and low-voltage-switchgear, transformers & cable systems	Trimet Aluminium, Essen
RHV network installation	General agreement on maintenance, inspection and retrofitting of 10kV distribution grid stations including call-out service	Rheinenergie, Cologne



Your contact

Please feel free to contact us – we are more than happy to discuss any queries you may have.

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