

RAILWAY ELECTRIFICATION

Consultancy. Engineering. Supply. Installation. Commissioning.



OUR CORPORATE OBJECTIVE

SYSTEM PROVIDER FOR RAILWAY ELECTRIFICATION



High-speed rail traffic



As a leading provider of electrical equipment for track-guided transportation systems with electrical traction, Rail Power Systems provides efficient and sustainable solutions.

Globalisation of the economy, population growth in mega-cities and limited fossil fuel resources require high-performance and energy-efficient transport systems. Whether it's high-speed railways lines, metro and city train systems, electrically-powered bus networks or special trains: Rail Power Systems' components, systems and services are used in all of them.

Innovative technical solutions by Rail Power Systems, both for the traction systems of alternating and direct current railways and for all types of electrical line installations, make rail-guided transportation a high-performance and competitive solution compared with other alternatives. A great deal of attention is paid to concepts such as interoperability, sustainability, reliability, availability,

maintainability and safety during the development and implementation of our products and services.

There are decades of experience behind each contact line section and substation. The use of modern technologies, taking current standards into account, added to our quality monitoring and absolute professionalism and passion, result in the perfect end product for our

users, thereby justifying their trust. A consistent focus on the preferences and requirements of our customers, combined with the ideal combination of standardisation and flexibility, guarantees individual solutions with the highest level of efficiency.

Experience you can trust.



Mainline systems



Regional rail transport



Metro systems



Light rail and tram systems



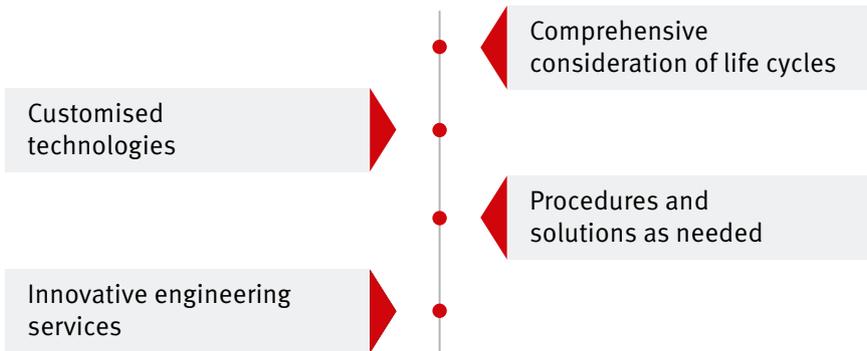
Industrial railway

EXPERTISE GAINED FROM OVER 125 YEARS OF EXPERIENCE



RAIL POWER SYSTEMS

We provide:
 Consultancy.
 Engineering.
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 Commissioning.



OUR CLAIM

THE IDEAL PARTNER AT YOUR SIDE!

We as the system provider take overall responsibility for engineering, planning and commissioning your project.

Throughout all phases of engineering and design, our teams concentrate on the optimum system and interface integration and the on-schedule implementation of individual systems.

Success requires close cooperation based on partnership and mutual understanding for the objective,

for the overall objective, budgeting, project requirements and system capacities.

Our extensive track record of successfully completed global projects proves that Rail Power Systems knows how to structure the complex relationships inherent in these types of operations.





PORTFOLIO

QUALITY. EFFICIENCY. RELIABILITY.

Portfolio overview



Electrification of rail-guided transport systems



RAIL POWER SYSTEMS

- ▶ Long-term, successful partnership for optimum collaboration.
- ▶ Decades of experience in Germany, Europe and worldwide.
- ▶ Expertise throughout the entire life cycle of electrified rail-guided transport systems.
- ▶ Complete technological solutions, from the feasibility study to in-house product development and maintenance concepts.



Power supply



Contact line



Auxiliary power systems

DESIGN AND ENGINEERING SERVICES

- ▶ Design expertise for all electrical railway systems.
- ▶ The combination of sound knowledge of railway electrification and comprehensive practical experience.
- ▶ Covering all life-cycle phases, from conceptual design and feasibility studies, to engineering, execution, commissioning and maintenance.
- ▶ Independent advisory services including expert reports, simulations and software tools such as TracFeed® Catmos, TracFeed® Catlife, Intelliplan, ProAssist, for example.

PROJECT EXECUTION

- ▶ Technical expertise applied to project execution and commissioning.
- ▶ Core competencies in the implementation of railway electrification projects with worldwide references.
- ▶ Our own components, systems and software tools.
- ▶ Open to cooperations with local partners.

REFERENCE PROJECTS (COMPLETED/REALISATION)

- 2013** » **Halle:** Marshalling yard modernisation, Germany
» **Beijing:** Metro Line 6 extension, DC switchgear panels, China
» **Basel-Weil am Rhein:** Tram 8, new construction of 2 DC substations including building, Germany
» **Metro Sofia:** DC switchgear panels, Bulgaria
» **Kongsvinger:** AC switchgear panels, Norway
- 2014** » **Dessau:** New construction of the multi-system testing track, Germany
» **MVG Mainz (Mainz Transport Company):** 13 DC substations, Germany
» **Cologne:** New construction of Regiowerk, overhead conductor rail system, Germany
- 2015** » **Lohsa:** New construction of inverter station (3 x 15 MW), Germany
» **Taipei:** Danhai LRT, system studies, DC switchgear panels, rectifiers, Taiwan
» **Bützow/Schwerin:** New construction of 2 inverter stations, Germany
» **MVG Mainz, (Mainz Transport Company), Mainzelbahn:** 5 DC substations, Germany
» **Gotthard Base Tunnel:** ARGE 16.7 Hz highspeed railway catenary for tunnel RE250GBT, Switzerland
- 2016** » **Zevenaar:** System separation section with voltage detection, The Netherlands
» **Train depot Rummelsburg (Berlin):** Design, planning and installing the hall automation, incl. automatic switch-off TracFeed® AEA as per SIL2, Germany
- 2017** » **Hanau–Nantenbach:** Electrification of existing line, Re200(mod), OLSP, Germany
» **Wendlingen–Ulm (Section 4-6):** Electrification of track section with 60 km tracks with Re330 high-speed system, Germany
» **Knoten Halle, 8.2.(VP21):** Electrification works, Re100, Re200, Germany
- 2018** » **ICE depot Nippes, Cologne:** electrification, design, Overhead Conductor Rail TracFeed® OSS, NEA 16,7 Hz, protection and control technology for 16.7 Hz switchgear panel, automatic switch-off TracFeed® AEA as per SIL 2, Germany
» **Marshalling yard Halle (Nord):** Electrification Re100
» **Dessau, locomotive test centre (Lot 3):** Planning, delivery and installation of electro-mechanical systems and the construction of a transformer substation, Germany
» **Beijing Daxing, Beijing, China:** Airport Link, double track section between Caoqiao to Daxing, design and delivery of TracFeed® OSS110, China
» **ABS 48, VE 04A (Geltendorf–Memmingen–Lindau):** electrification and upgrade of overhead contact line system, Germany
» **Höllentalbahn Ost:** electrification of track section, TracFeed® OLSP, Germany

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