



# Comprehensive solutions for tomorrow's infrastructure

Energy – Telecommunications – Railway

**eqos**  
Energie

# Fit for the future of a networked society

Today's data-intensive economy would be unthinkable without powerful supply networks for electricity, telecommunications and rail traffic. At the same time, growing data volumes and the increasing interaction of devices render requirements for network stability more complex. EQOS Energie is optimally prepared for supporting companies in adjusting their infrastructure.

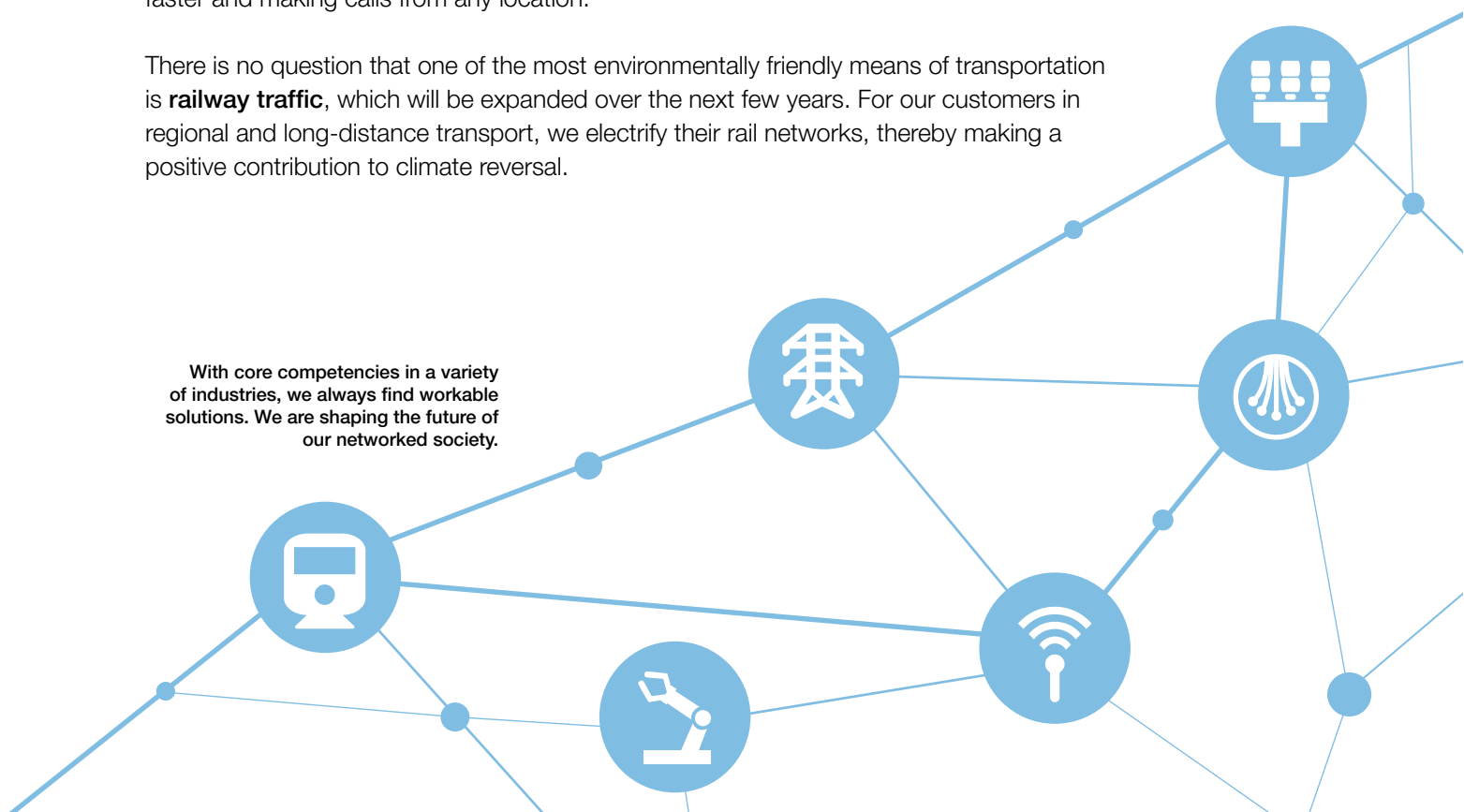
For more than 100 years, we have been working in several European countries as an internationally active group. Whether you need a complete package or selective support: We offer individually customised solutions for our customers in almost 40 locations. This makes us one of the leading service providers for complex infrastructures. Our offerings cover the entire lifecycle from planning to maintenance.

We ensure that **energy** is transmitted to the people by reliably planning and constructing power grids. To this end, our expertise in overhead line construction is a key advantage for our customers. Furthermore, we are rendering the basic infrastructure performant for the energy transformation – with new construction and remodelling projects, we are successfully bringing power generation systems up to the state of the art of technology. We effectively support industry with smart buildings and automation solutions.

With the deployment of 5G technology, we are advancing digitization in many areas of life. In **telecommunications**, we serve as partners in data distribution via fibre optics cable. People experience our contribution on a daily basis by being able to browse the internet faster and making calls from any location.

There is no question that one of the most environmentally friendly means of transportation is **railway traffic**, which will be expanded over the next few years. For our customers in regional and long-distance transport, we electrify their rail networks, thereby making a positive contribution to climate reversal.

With core competencies in a variety of industries, we always find workable solutions. We are shaping the future of our networked society.





As a company, we are constantly improving our performance to be able to provide **first-class quality**. Our name includes this promise: **Excellent Quality Of Services**. Because of our comprehensive expertise, we keep our promise by providing outstanding services as a dependable partner in your locale. Furthermore, as a service provider whose core expertise is dedicated to improving infrastructure, we take our social responsibility very seriously. Therefore, we bank on long-standing business relationships to achieve sustainable success, which we define as good environmental practices, social concerns and the principles of good corporate governance.

Our corporate success is characterised by our **high-performance culture** and a strong focus on **health protection**. Standardised project management and motivated, trained staff mean greater performance for our clients. Moreover, we are working on our goal of “zero accidents” every single day, which can only be ensured through **safe work practices**.





# Changing from roadway to railway for the sake of climate reversal

Mobility in Europe will be completely realigned in the next few years. Every kilometre travelled by rail will contribute to achieving the European climate protection objectives. Progressive re-shaping of mobility requires the electrification of the railway network.

When it comes to the climate-friendly expansion of energy technology in railway infrastructure, we provide our expert knowledge in **regional and long-distance traffic**: during foundation construction, in civil engineering and during the installation of catenary systems. You will benefit from our international project experience on all service levels. Our focus is regional transportation in Germany and Belgium and long-distance traffic in Austria.

## Broad expertise meets innovation

When **retrofitting your catenary system**, all dismantling, remodelling, reconstruction and new construction comes from a single source. During stocktaking, analysis, inspection and documentation, we use whatever measurement technology is approved for your location. Do you need a foundation procedure? If so, we will provide special piling and drilling equipment. In regional traffic **engineering**, we can simultaneously plan your overhead contact line systems. Our expertise is also reflected in **patents** such as the telescoping light or the track guidance system on the catenary measuring carriage for the long-distance railway line.

## Your benefits in the Railway business field

- International experience with catenary systems in regional traffic
- Future-oriented with EQOS Energie's own patents in long-distance traffic
- Cutting-edge technology along the tracks with our technical equipment

## Technical equipment

In the German market, we put communications technology on the railway by installing your cable system and equipping it with copper or fibre optic cables. Furthermore, we lay cables, install your control and safety systems and we will optimise the energy structure. We also ensure that your switches will not freeze anymore and that your track fields are illuminated.



# Improved power grids for the energy transformation

The ecological expansion and remodelling of the power supply are a key component in making the energy transformation a success. To ensure that electricity from renewable energy sources really reaches consumers, it must often be transported over long distances.

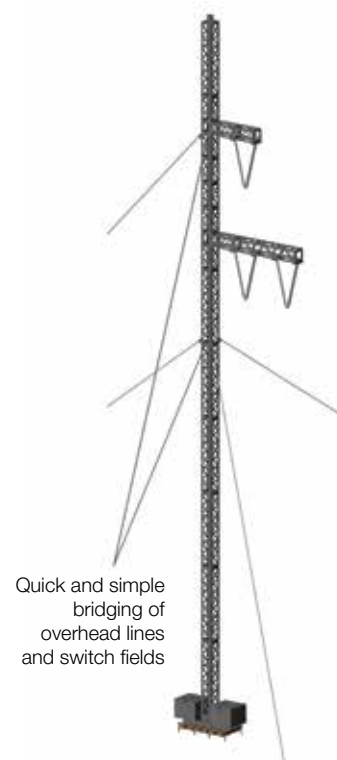
For many years now, we have made a contribution to align the network infrastructure with the energy transformation. In **overhead line construction**, our spectrum of services covers the entire value chain. Our **engineering** forms the basis for our first-rate position. Whether it is property management, construction, static engineering or line planning – we use the latest software for your commissions.

## Reliable fitting for satisfied customers

You can depend on the quality of execution of our projects. When constructing and maintaining your power grid, we deploy well-coordinated teams for the preliminary assembly, for mast erection and for the wire rope hoist. The **civil engineering work** is also performed by our own specialists. In order to provide the best customer solutions, we continuously invest in patents, devices or machinery and in our own very high standard of occupational safety, which exceeds legal requirements. We have our own training centre south of Berlin where we also offer training for other companies.

## Your benefits in the field of Overhead Line Construction

- Excellent expertise in engineering
- Cutting-edge machinery
- Flexible and safe work across national borders







# Knowledge at all levels of the future power supply

Renewable power must be generated but also taken up by the network. A power supply that is low in CO<sub>2</sub> requires a stable power grid that connects systems via new centralised network nodes with centres of consumption.

Based on our core expertise in **energy technology**, we successfully upgrade our customers' **high- and medium-voltage** switchgears **as well as substations** at the various network levels to state-of-the-art technology. With our sound expertise in primary and secondary technology, we are a competent partner for energy providers. You receive a full service from us, ranging all the way from planning and construction to rearrangement, maintenance and disassembly of switchgears.

## Taking advantage of the opportunities of Industry 4.0

We take things to the next level and provide comprehensive solutions in **smart building and automation**. In smart building, we render your commercial buildings fit for the future based on an intelligent combination of cutting-edge automation and security technology with proven building services engineering. We automate the processes of the manufacturing and process industries with our broad technological knowledge and a wealth of project experience.

## Your benefits in the Energy Technology business field

- Interdisciplinary team structures
- Highly qualified primary and secondary planning
- Solution-oriented approach and flexible project handling

## Manufacturing automation

The digital transformation offers manufacturing companies opportunities based on adjusting and expanding their processes. Our experts develop intelligent approaches for flexible and performant production processes, including those for the implementation of robotics. In addition, we automate both old and new machinery equally and increase your plant security based on cybersecurity.



# 5G requires new infrastructure for mobile and fixed networks

Mobile telephony, Internet of Things, smart home, autonomous driving and Industry 4.0 pose new requirements for communications networks. An expansion is inevitable in order to ensure stable, gapless data transmission in near-real time.

For almost 30 years, we have been pioneers in building mobile telephony networks – from 2G to 5G. With internal **5G in-house provisioning**, companies can be reached even in remote locations, yet also connect via external networks. 5G can only provide maximum performance with a full-coverage broadband network. This is based on the highly performant connection of all mobile base stations to the **fibre optics infrastructure**, and we are already working on the expansion of FTTx networks. In order to further intensify our sustainable customer relationships, the expansion of **active and passive infrastructure** is one of the focus areas for the business of tomorrow.

## Special expertise in pole construction

In **mobile telephony**, we offer a complete service portfolio from planning, permits and installation to commissioning and maintenance. Our engineering develops our own proprietary mast series, which we offer to our customers including set-up.

## Your benefits in the Telecommunication business field

- Independent of manufacturers and systems technology providers
- Development of proprietary mast series
- Innovative system integration solutions

