

ENERGY

WE ENERGIZE
THE WORLD





**Expertise and stability count
when our future is at stake.**

THE DRIVING FORCE.

Electrical energy is the driving force of the future. It ensures **connectivity, communication and mobility**. Smoothly functioning energy systems, structures and technologies are what keep our modern life in motion. Values such as safety and stability are therefore decisive factors in the selection of appropriate products and services.

As a strategic partner of the energy industry, “Energy Systems” a business unit of the Knill Gruppe, meets these high requirements. The companies of this division ensure efficient power distribution worldwide from power plants to individual households. In the past, now and in the future.



ABOUTS

With around 1,200 employees around the world, the companies of Energy Systems make a significant contribution to the safe and efficient transmission and distribution of electricity. The fittings, damping and monitoring systems for overhead lines and the highly specific components for substations and railway fittings are developed and produced entirely in-house and sold worldwide. Everything from a single source.



ENHANCING QUALITY.

**The energy market never stops.
The same applies to our products and services.**
Engineering, new and advanced technological developments, quality control, tests and field trials are all carried out in-house to ensure complete transparency and traceability. For advanced developments, we use the expertise of our local project teams as well as external experts from research institutes and universities who think outside the box.

This is how innovation with quality standards works. Functionality, reliability and the fulfilment of all standards and legal requirements have top priority for the Energy Systems' companies!

The ISO 9001 quality standard is the certified standard at all locations. We are also certified to ISO 14001 and ISO 45001.

**From complete systems
and customised single
components to individual
new developments.**



COMPE TENCE

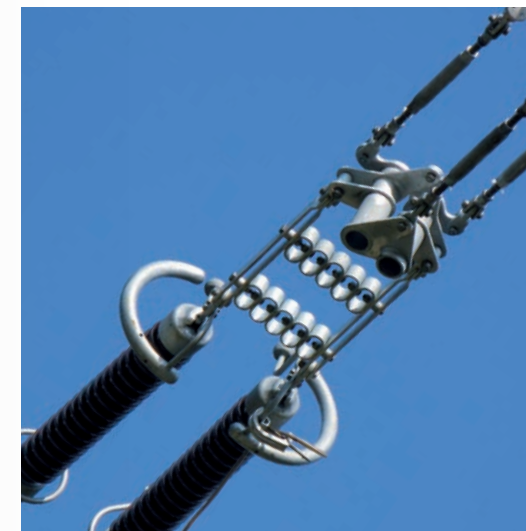


The reliability of the power supply is directly related to the quality of the relevant systems and components. The solutions of the Energy Systems' companies are used worldwide for safe and efficient power transmission and distribution. For good reason.

TRANSMISSION



SAFE POWER TRANSMISSION AND DISTRIBUTION.



String systems for high-voltage overhead lines up to 1,200 kV



Damping systems for vibration protection of overhead conductors



Low and medium voltage fittings up to 45 kV



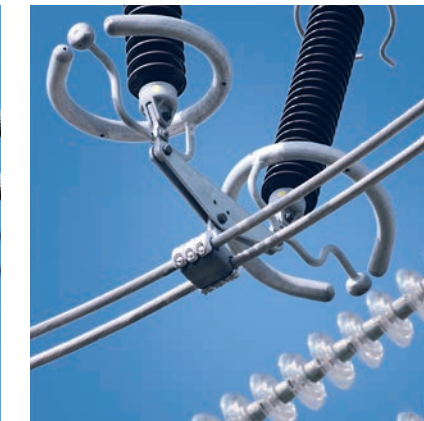
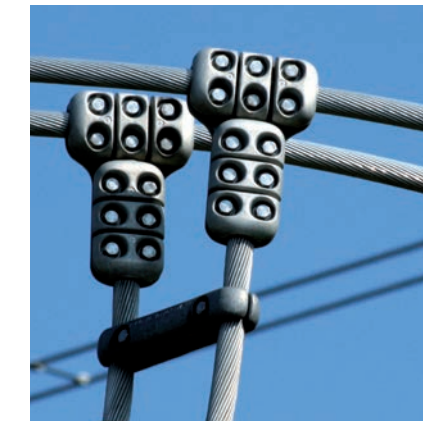
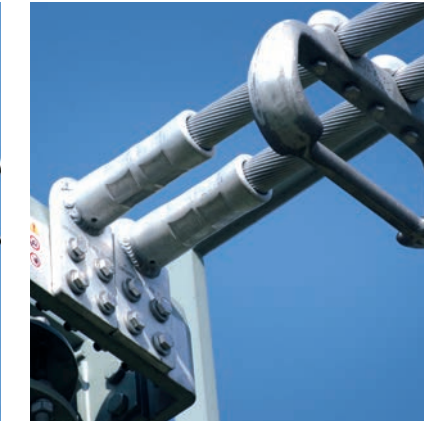
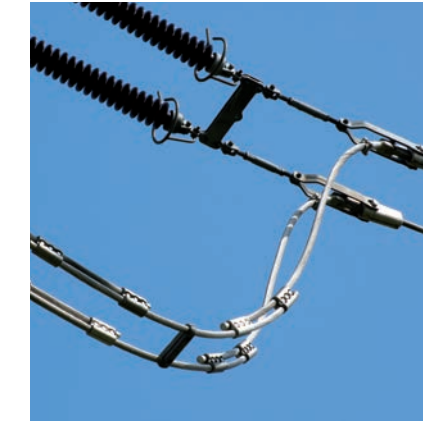
Components in substations have to ensure reliable power transmission.

The Energy Systems' companies develop and produce such highly-developed components for the construction or modernisation of substations. Naturally, in accordance with the highest international standards.

CONNECT



RELIABLE COMPONENTS FOR SUBSTATIONS.



For systems up to 1,000 kV.



**WE GENERATE
DATA AND
TURN IT INTO
KNOWLEDGE.**

DIGITAL SERVICES



Transmission lines are the lifelines of our modern world. The digital services of Energy Systems' companies monitor and analyse their condition. The Gridpulse monitoring system generates data and turns it into the reliable and accurate basis for intelligent decisions. In this way Gridpulse makes a significant contribution to identifying weak spots in real time and preventing damage. This monitoring in real time promotes a network's safety and flexibility, thus increasing its dynamic availability in an international context.

**Empowering grids
and the people
who run them.**



gripulse® BASE
collects data from the
transmission line on a
real time basis



gridpulse® WEATHER
delivers reliable and
accurate weather data
from the line



gridpulse® CONNECT
links together real time data and
provides intuitive live reports from
the installed sensor(s)





UP-TO-THE-MINUTE RAILWAY MATERIAL.

Railway infrastructure is one of the most important mobility networks of the modern world. Reliable and maintenance-free infrastructure provides the basis for trouble-free operation of electric railways for local and long-distance travel.

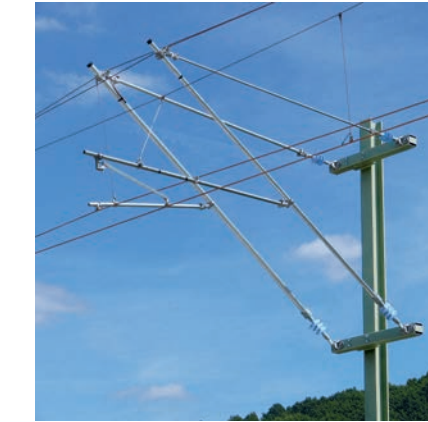
Rail traffic is steadily increasing around the world. This places new demands on railway lines - both on existing routes as they expand and on newly built lines. As full-service provider the Knill Energy Systems' companies offer innovative and sustainable solutions for the reliable electrification of railway and underground systems. We maintain a consistent focus on the high track availability.

RAILWAY



Proven quality connects the world.

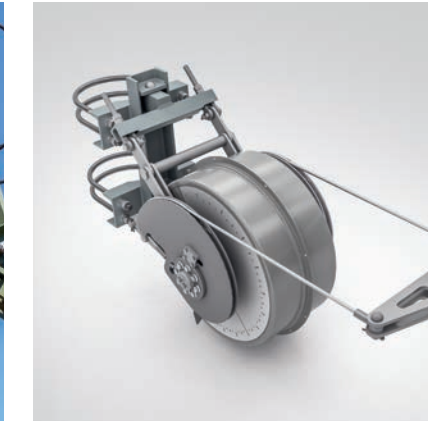
Railway catenary systems



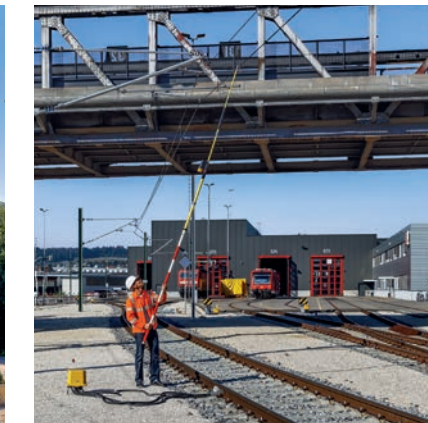
Insulation technology



Tensioning



Power supply



Safety equipment

LOCAL THE WORLD OVER.

As a global company network, the Energy Systems division is optimally positioned.

In the interests of uncompromising quality assurance, the company has various sites where flexible, fast, high-quality production is assured. This geographical diversification also enables us to be where our customers are.

GLOBAL

Market Overton, England
Myjava, Slovakia
Weiz, Austria
Granollers, Spain
Nove Mesto nad Vahom, Slovakia

Nashik, India

Bangkok, Thailand

7 PRODUCTION SITES WORLDWIDE

All products, components and services are developed and produced entirely in-house and sold worldwide.

~1,200 EMPLOYEES

60,000 m² PRODUCTION AREA

25,000+ OUTPUT PER YEAR

REFERENCE

MARKET PRESENCE ON ALL CONTINENTS.



Europe

380 kV Styria line, Austria
Length of line: 100 km
Year of construction: 2009



Americas

735 kV Lower Churchill Fall Project, Canada
Length of line: 203 km
Year of construction: 2015



India

765 kV S/C Jabalpur Bina T/L and 765 kV D/C Dharamjaigarh Jabalpur T/L - JTCL
Length of line: 616 km
Year of construction: 2012



Middle East

380 kV SEC-COA 4000055251 D/C OHTL between Qassim-2 BSP #9025 - Madinah East BSP #21900 (CKT 3 & 4), Saudi Arabia
Length of line: 420 km
Year of construction: 2019



Africa

400 kV OHTL El Affroun - Hassi Aneur, Algeria
Length of line: 320 km
Year of construction: 2006



South-East Asia

500 kV PLN Project Grati-TX Kalanganyar, Indonesia
Length of line: 60 km
Year of construction: 2018



Australia

66 kV TL for Salt Creek Windfarm in Victoria
Length of line: 55 km
Year of construction: 2018

The reliability of the products and services of the Energy Systems' companies is something to be proud of! The expertise relating to fittings, damping and monitoring systems, railway fittings and components for substations is in international demand. These reference projects give an impression of the scope of services relating to the development and expansion of energy systems, structures and technologies. In keeping with the motto: Think globally and act globally.



THE POWER OF THE GROUP.

Energy Systems is a central division of the global Knill Gruppe. All companies have common standards for thinking and acting. This applies across all divisions and hierarchies. It includes, for example, the irrevocable commitment to using valuable environmental resources sparingly and carefully. In addition, we work every day on rekindling the motivation of our employees in order to impress our customers with outstanding performance. As a corporate group, this is how we develop collective strength. We also harness valuable synergies.

Knill Gruppe:
Energy, Communication, Mobility
> 300 million euros annual sales
> 2,300 employees
30 companies in 18 countries



ENERGY SYSTEMS

FACTS AND FIGURES

12
COUNTRIES

15
COMPANIES

> 1,000
PROJECTS IMPLEMENTED WORLDWIDE

€ 150,000,000
SALES PER YEAR

ENERGY SYSTEMS

Four men in dark blue suits and ties are standing in a row in front of a large window. They are all smiling. The window shows a blurred view of a modern building and greenery.

**„We think and act
in generations, not in
quarterly reports.“**

Christian Knill
Owner

Erich Kaltmann
CSO

John Morris
CPO

Klaus Urwanisch
CFO

FOR MORE THAN 300 YEARS.

Today, the corporate group is still family-run,
now in the 12th generation.

This fact alone proves that safeguarding the future
long term is more important than maximising
earnings short term. We are bound by tradition
and as a result we have worked unfailingly on our
corporate future development since 1712.

FUTURE

ENERGY

WE ENERGIZE
THE WORLD

04-2022