

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 1,100 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

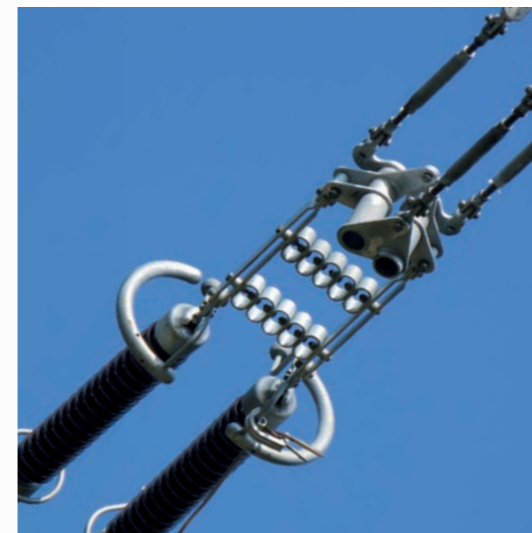


The reliability of the power supply is directly related to the quality of the relevant systems and components. The solutions of the Energy Systems' companies are used worldwide for safe and efficient power transmission and distribution. For good reason.

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



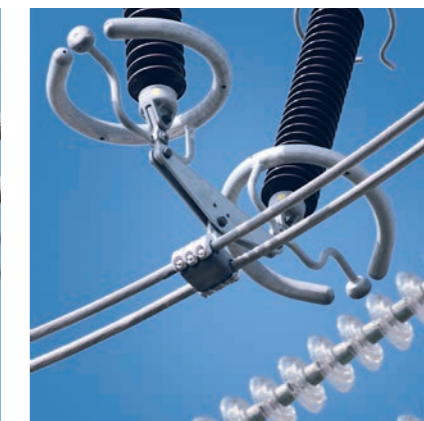
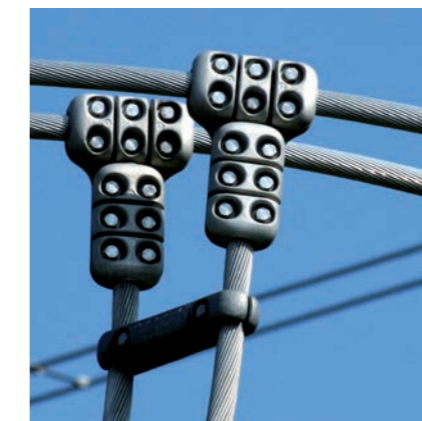
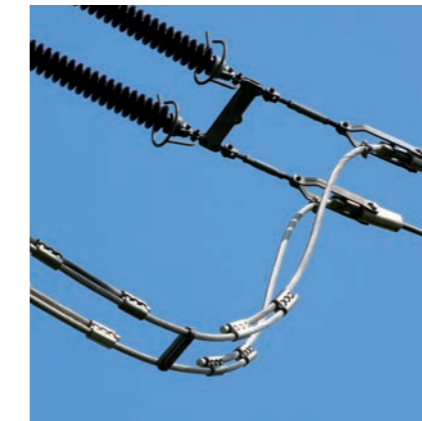
Components in substations have to ensure reliable power transmission.

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.



MONITORING AND ANALYSIS IN REAL TIME.



The digital services of Energy Systems' companies monitor and analyse the condition of overhead lines, exposed to the highest loads. The OTLM system makes a significant contribution to identifying possible weak spots in good time and preventing damage. Monitoring in real time promotes a network's safety and flexibility, thus increasing its dynamic availability in an international context. The digital services are constantly being further developed and optimised. Today's dreams are tomorrow's reality.

The installation,
use and servicing
of networks is being
revolutionised
intelligently.



UP-TO-THE-MINUTE RAILWAY MATERIAL.

Railway infrastructure is one of the most important mobility networks of the modern world.

The Knill Energy Systems' companies produce overhead contact wire products for the reliable electrification of railway and underground systems. This railway material is used where electricity is the driving force: a crucial point indeed.



Proven quality
connects the world.

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
Weiz, Austria
Myjava, Slovakia
Nove Mesto nad Vahom, Slovakia

Nashik, India

Bangkok, Thailand

6 PRODUCTION SITES WORLDWIDE

~1,100 EMPLOYEES

60,000 m² PRODUCTION AREA

25,000+ OUTPUT PER YEAR

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

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 Ameur, 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
340 million euros annual sales
2,300 employees
27 companies in 17 countries



ENERGY SYSTEMS

FACTS AND FIGURES

11
COUNTRIES

12
COMPANIES

> 1,000
PROJECTS IMPLEMENTED WORLDWIDE

€ 150,000,000
SALES PER YEAR

ENERGY SYSTEMS

A photograph of five men in dark blue suits and ties standing in a row in front of a large window. They are all smiling. The window shows a 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

Ivan Kramer
COO

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

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09-2019