

ENERGY SOLUTIONS

# GRID CONNECTIVITY + RELIABILITY

# EVERY CONNECTION COUNTS

When you're tasked with building the grid of the future - robust, intelligent, and emission-free - the importance of every connection is clear. So are the daily challenges you face. Like unforgiving environments. Installation accuracy. Changing skills and requirements. Constantly evolving technology and regulations. Animal-induced outages. Will a tracked material cause a flashover - or worse, a wildfire? How will you manage the emerging trends of decarbonization, urbanization, network decentralization, digitalization?

**+** *We are the connection. The space between. Bridging the gaps. We are the joints and splices, connectors, insulators, intelligent solutions, the people, ideas and innovations that add value, advance energy, and keep the power on.*



With over 60 years of experience and a global workforce dedicated to the Energy industry locally, we understand your situation. You need robust, safe, reliable networks that stand up to modern energy demands. So everything we do focuses on providing solutions that keep your grid connected and energy flowing.



Because grid reliability matters, every connection counts. To you and to us.

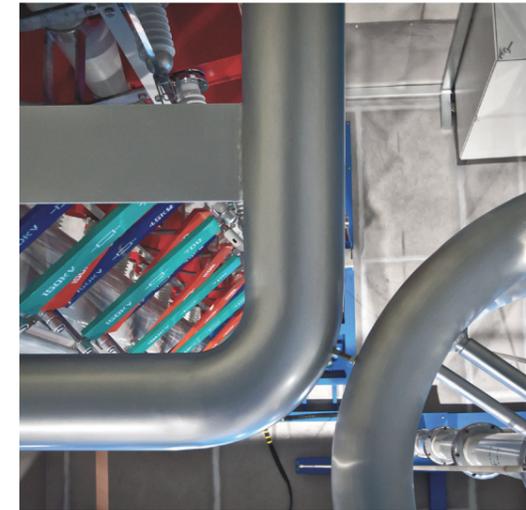
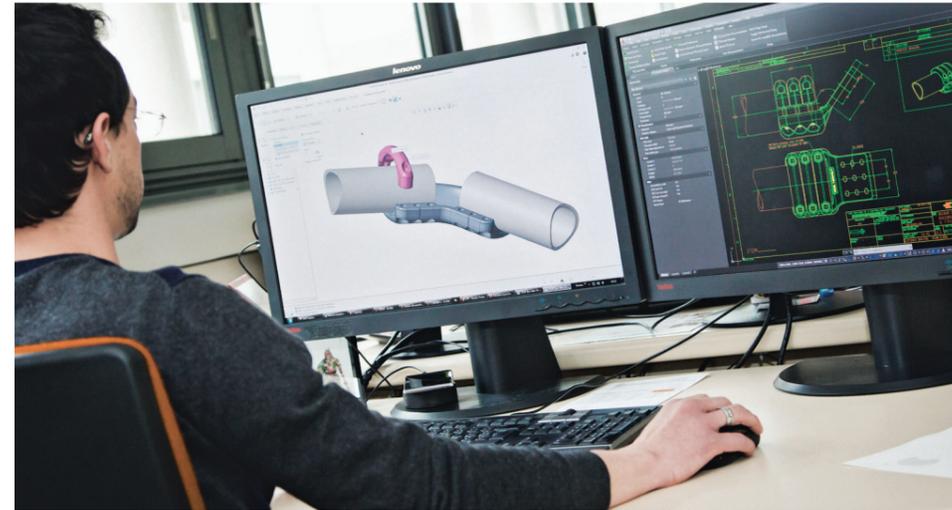
# PIONEERING GRID RELIABILITY

Our extensive portfolio features Raychem cable accessories, wildlife & asset protection solutions and insulators, SIMEL insulation piercing & mechanical connectors, Bowthorpe EMP surge arresters, Crompton Instruments metering, AMPACT overhead connectors, UTILUX lugs and more. All proven products trusted the world over for 'install and forget' reliability.

Field-proven product materials help to ensure your assets are protected throughout their service lifetime.

If the ideal solution isn't in our product portfolio, our engineering team can collaborate with you for a custom solution. Our research and development teams have years of industry experience and thousands of patents, which we can leverage for your ideas.

With global manufacturing facilities, materials science specialists and testing laboratories in-house, we are equipped to design, build, optimize and manufacture your unique solution - from prototype to full production.



## How to build a customized end-to-end solution

**Consult.** We met with one utility client to assess and fully understand their specific situation and requirements.

**Design.** We designed a bespoke joint to transition from 50 year-old PILC oil paper cable to modern polymeric cable.

**Test.** Our engineers worked side by side with the utility's engineers and jointers to conduct extensive reliability testing at our laboratories.

**Train.** Our team created detailed instructions and trained utility jointing instructors on proper assembly and installation.



# + EQUALS MORE

From generation to transmission to distribution to wherever energy is needed, we're with you every step of the way. We can help with system design, technical specs, condition monitoring, in-field training, on-the-spot consulting, custom-engineered solutions, research & development and more.

Working with one single partner, you'll get the comprehensive solutions and services you need to keep the backbone of your grid connected - from 1 kV all the way up to 1200 kV.

- Cable Accessories
- Connectors & Fittings
- Insulation & Protection
- Metering
- Installation Training

## + Reduced Cost of Ownership

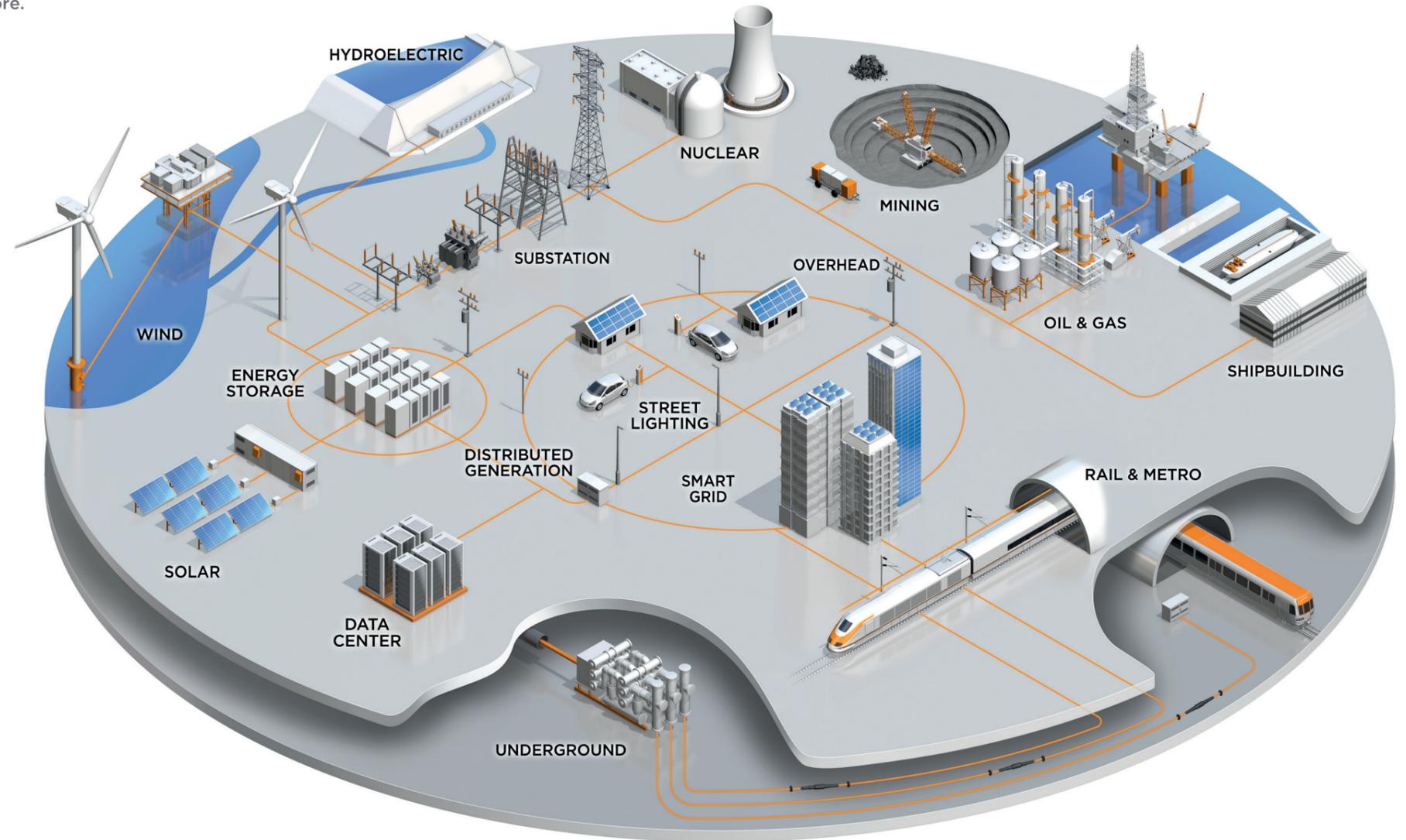
When you invest in our field-proven materials and installation training, you optimize asset service life and prevent the costly effects of underground failures, materials tracking, flashovers and more.

## + Wildlife & Asset Protection

We deliver lasting solutions that protect both wildlife and your energy assets, and also help maximize service continuity.

## + Easy, Fast, Safe Installations

By keeping the number of components and steps to a minimum, we help to make your installations intuitive, streamlined and safe.



## + Installer & Engineering Support

From hands-on installation training to digital product selection guides, we help you improve installation accuracy and enhance grid design for more robust connectivity.

## + Grid Reliability

The proven service life of our products and materials, combined with the quality of our training, help you keep your network connected and the power on.

## + Grid Monitoring

Understanding usage, demand and bi-directional energy flow allows you to deliver power when and where it's needed, perform predictive maintenance, monitor storage and build a more robust grid.

# ANYWHERE DURABILITY

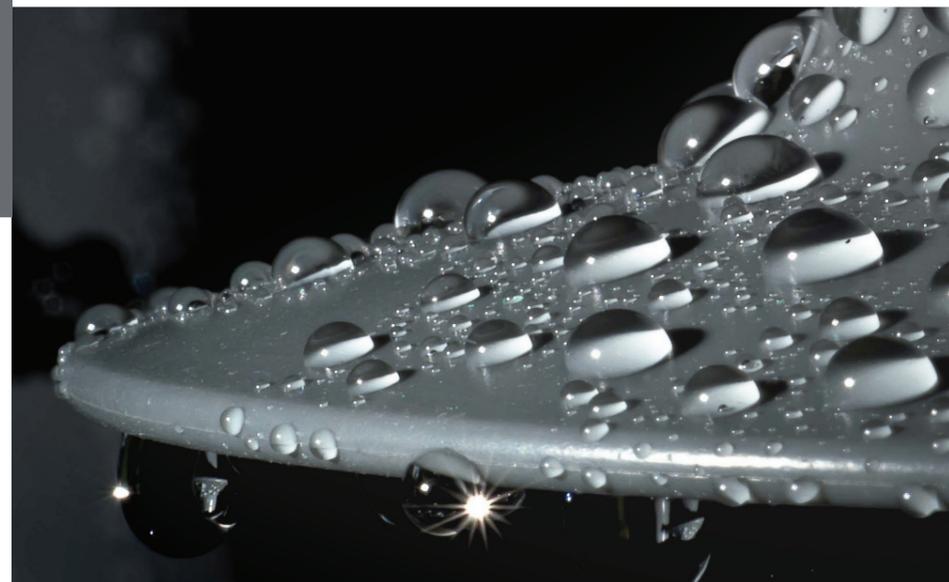
Frigid winters. Intense sun and sandstorms. Salinity. Humidity. Smog. Under any conditions, your obligation is the same: keep the power on. You need products that deliver reliability, even in the harshest environments, and last the lifetime of your equipment.

Relentless dedication to materials science and testing in our labs around the world helps us to deliver built-in reliability. Our products perform in the most extreme conditions and critical situations. You'll find them in high voltage networks, at temperatures ranging from -50°C to +50°C (-60°F to +120°F), in nuclear power plants and in eco-sensitive environments.

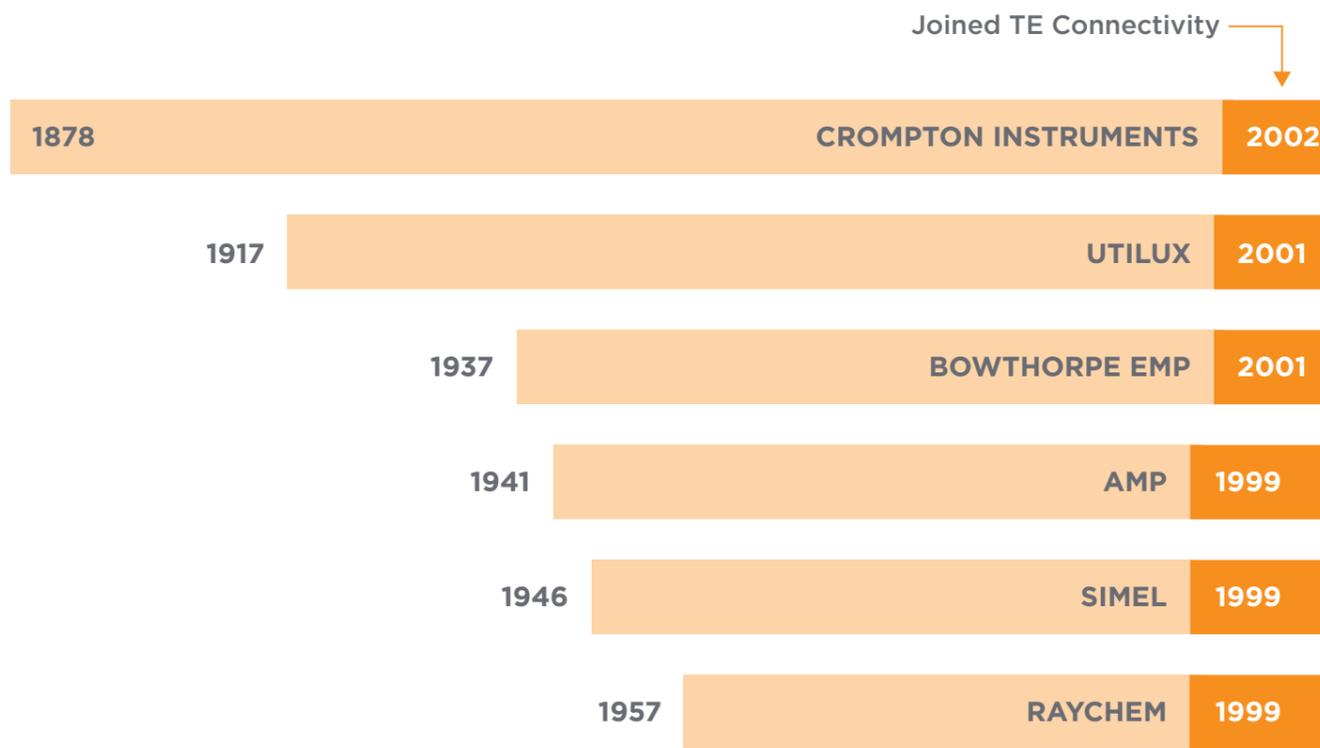
**\$20 Billion:**  
global annual  
average of  
revenue lost  
due to outages



*"I went back to a Raychem joint I installed 40 years ago, and it was still in service!"*



# WE ARE THE BRANDS YOU RELY ON



## TE CONNECTIVITY

Wherever grid connectivity and reliability matter, that's where you will find us. Providing you with guidance, innovation and solutions. Focusing on the needs of today – and the demands of tomorrow. Redefining the space between, because every connection counts.

We are the inventors of heat shrink technology, and we have nearly three decades of proven performance in cold applied technologies.

If you know Raychem, you know TE Connectivity.

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TE Connectivity is a global industrial technology leader creating a safer, sustainable, productive and connected future. Our broad range of connectivity and sensor solutions, proven in the harshest environments, enable advancements in transportation, industrial applications, medical technology, energy, data communications and the home. With approximately 80,000 employees, including more than 7,500 engineers, working alongside customers in approximately 140 countries, TE ensures that EVERY CONNECTION COUNTS.

**Learn more:** [TE.com/energy](https://www.te.com/energy)

**Connect with us:** [TE.com/energy-contact](https://www.te.com/energy-contact)

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