



**WELL CONNECTED.  
SWISS QUALITY SINCE 1896**



# THE GROUP

**Brugg Cables designs, manufactures, installs and maintains cables, accessories, and system solutions for energy suppliers, TSOs, and industrial applications.**

Brugg Cables is part of the Terna Energy Solutions Group (TES), a company within the Terna Group, which, through specific and diversified skills of its member companies, offers 360° support that covers the entire life cycle of projects, including the supply of strategic components for the energy transition, such as cables and electrical transformers.

Thanks to the existing synergies between the various Group companies, TES is the partner of excellence in the energy and digital transition of its customers in Italy.

The other companies in the Terna Energy Solutions Group are:



For over 100 years design, manufacture, installation and maintenance of transformers for industrial and power applications.



Advanced solutions and comprehensive support, tailored to each phase of the life cycle of high and medium voltage infrastructure, photovoltaic systems and storage systems.



**High Voltage**



**Storage**



**Photovoltaics**



**Energy Efficiency**



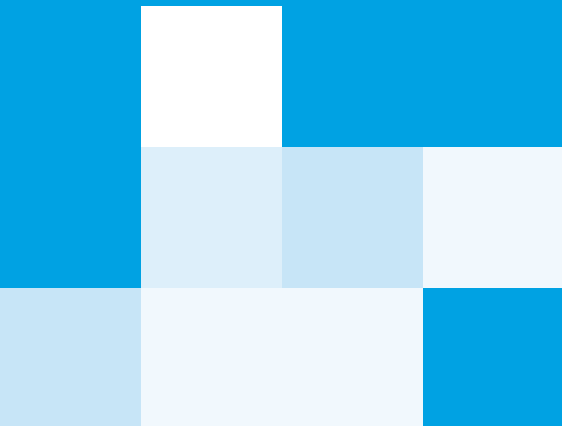
**The Group also provides connectivity services to the market, supporting customers in building customised project solutions.**

## OUR MISSION

As part of a leading European Transmission System Operator Group, our mission is to play a key role in energy transition by powering energy infrastructures with electrical cable systems.

With over a century of technical mastery, we leverage on expertise and innovation to offer know-how and tailored solutions worldwide from our hub in central Europe, guaranteeing our clients with operational reliability and quality.

**Brugg Cables - Swiss Quality. Since 1896**





## A MESSAGE FROM OUR CEO

### Commitment to Excellence

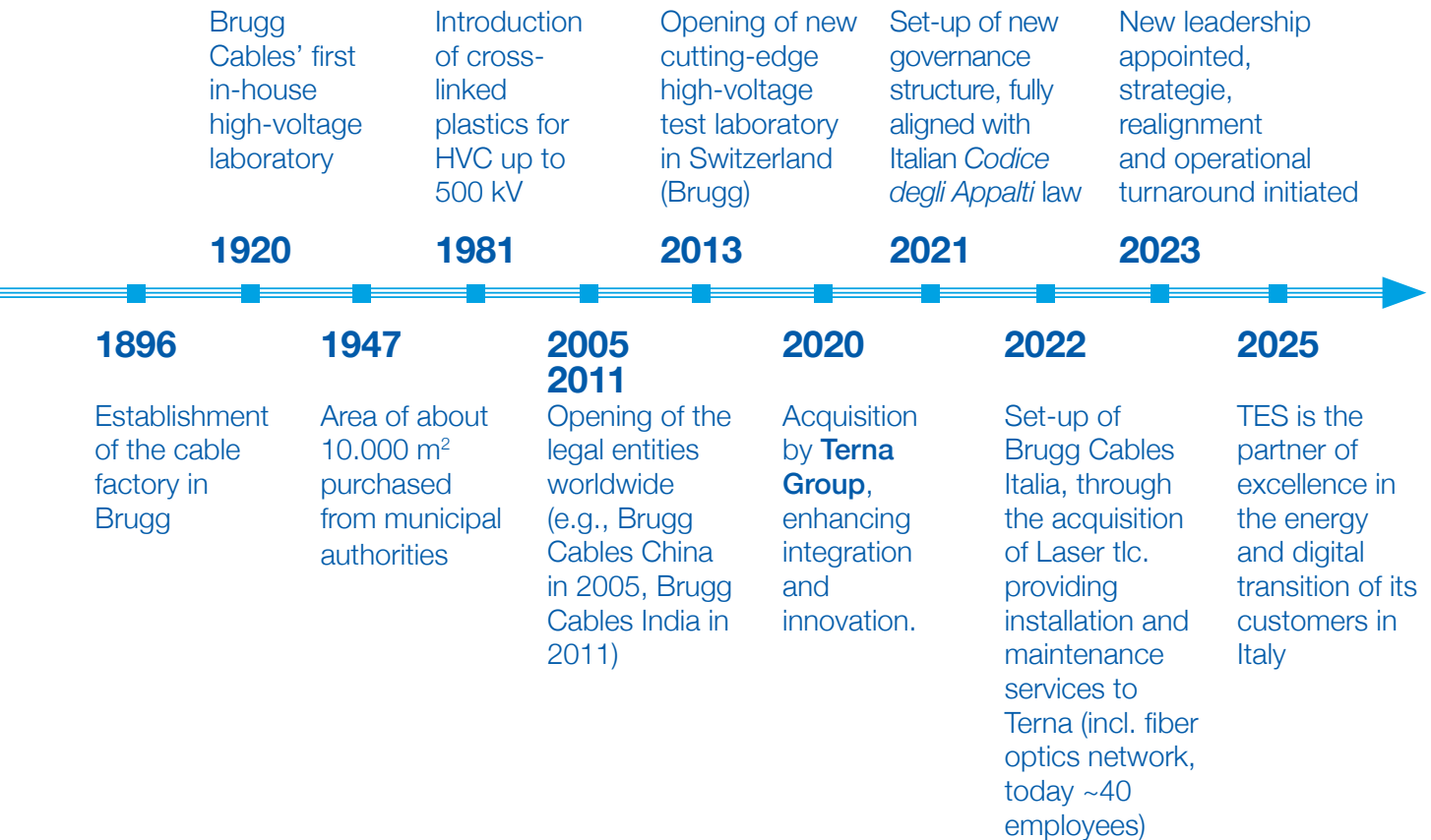
“My personal commitment, and that of all the people working every day in each of our global locations, is to continuously strive to achieve our vision.

Together, we focus on delivering high-quality, innovative, and sustainable solutions for the energy and connectivity sectors.”

**Gianluca Vettese,**  
CEO of Brugg Cables

# OUR HISTORY

## Over 125 Years of Innovation



# GLOBAL PRESENCE

## A Worldwide Network

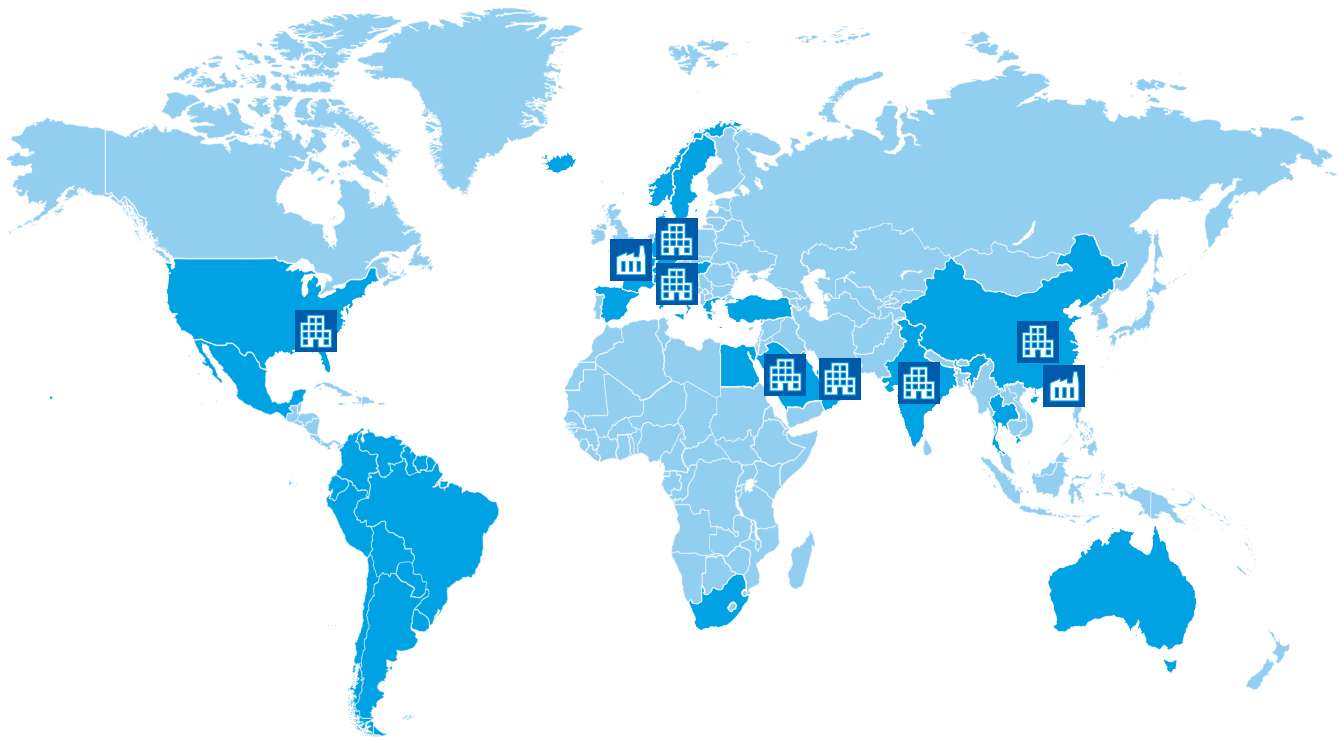
**Production** of HV and LMV Cables and HV Accessories, in Brugg (CH) and in Suzhou (CHN) only accessories.

**Subsidiaries** based in China, Germany, India, Italy, Middle East and the US.

**Global commercial footprint with EU, Middle East, India and China as main markets.**

Brugg Cables operates globally, manufacturing high, medium, and low-voltage cables and accessories.

With production sites in Switzerland and China, we maintain a robust international footprint through subsidiaries in Germany, Italy, India, China, the Middle East and the US.



 Main Markets

 Production Sites

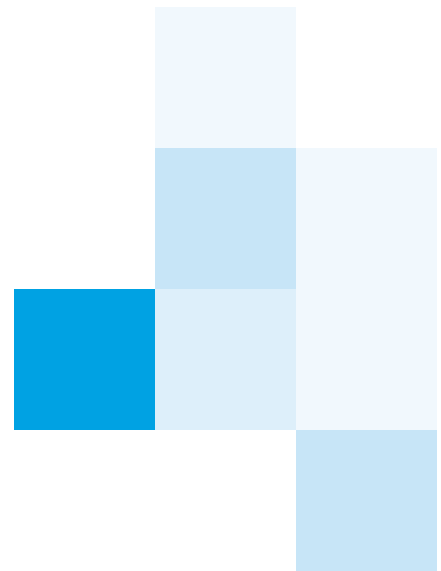
 Subsidiaries



## **OUR PEOPLE**

### **Brugg Cables Employees: Our Greatest Asset**

- Multinational skills and international environment
- Specialized teams close to our clients
- Custom-tailored solutions are part of our DNA
- Our international presence serves as a pivotal cornerston of our success story
- We believe that cultural diversity and our inclusive mindset is not just a value but a driving force behind our achievements
- Around 500 employees worldwide are committed to our customers every day



## KEY TERMS

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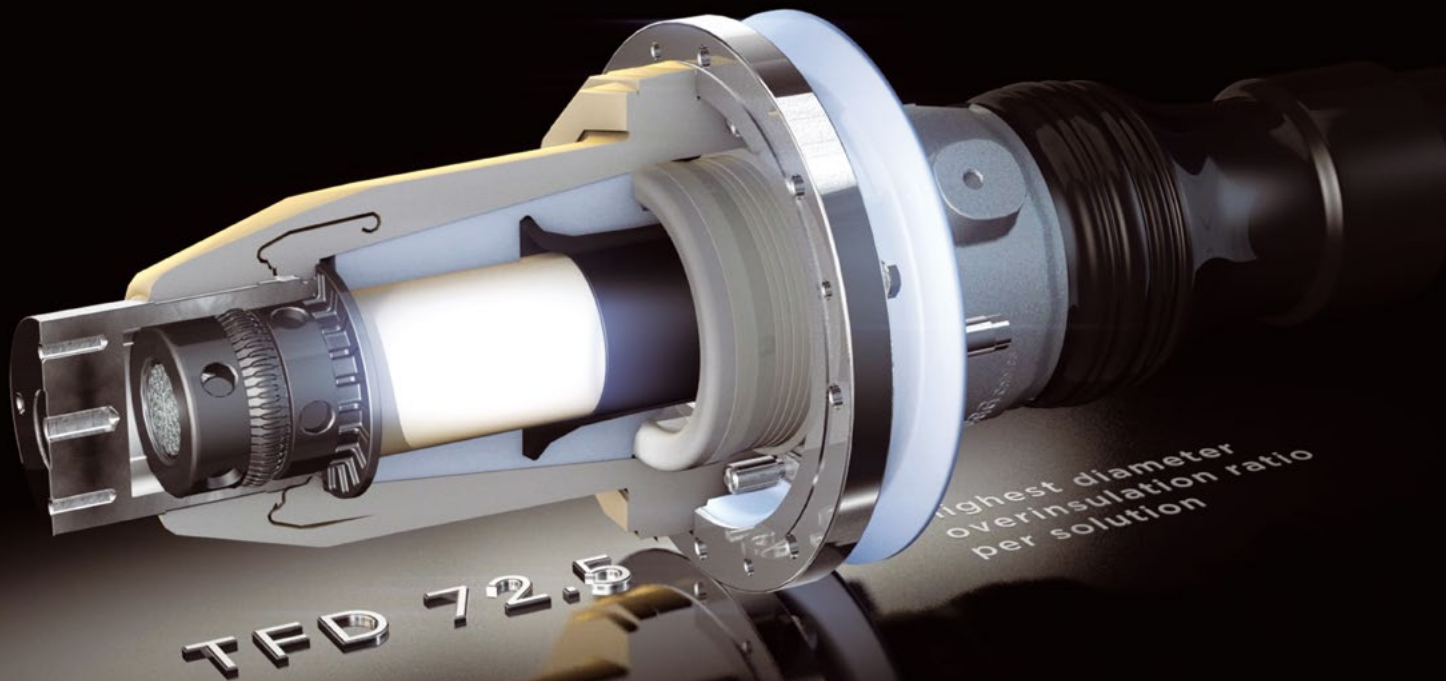
Cables
















Accessories






Installation / Maintenance



# BRUGG CABLES BUSINESS MODEL



	HV ACCESSORIES	HV SYSTEMS	LM VOLTAGE PRODUCTS
Products	<p>Cables' High Voltage accessories (joints, terminations) (up to 550 kV)</p>	<p>Cables' High Voltage cables and accessories (up to 550 kV)</p> <p>Cables' High Voltage systems (150 and 220 kV)</p> <p>Third party HV cables</p> <p>Maintenance services</p> <p>Optical fiber services</p> <p>Practical and theoretical trainings on power cables</p>	<p>Cables' Low / Medium Voltage cables</p>
Service	<p><b>Accessories &amp; Installation</b></p> <p> + </p> <p>+ Monitoring Systems</p> <p>+ Brugg Cables Academy</p>	<p><b>"MAKE" (Systems)</b></p> <p> +  + </p> <hr/> <p><b>EPC (Systems)</b></p> <p> +  + </p> <hr/> <p><b>AMS</b>   <b>A&amp;I</b></p> <p>    + </p> <p>+ Brugg Cables Academy</p>	<p><b>Systems</b></p> <p> + </p> <p>+ Brugg Cables Academy</p>
Clients	<p>Third parties (mainly producers of cables and EPC Worldwide)</p>	<p>Terna Rete Italia</p> <p>Third parties (mainly TSO, DSO, EPC in DACH and Middle East)</p>	<p>Third parties (EPC and DSO, mainly in Swiss Market and Austria)</p>

# BRUGG CABLES PRODUCTION ASSETS

	CABLES		HV ACCESSORIES	
	 SWITZERLAND	 SWITZERLAND	 CHINA	
<b>Area</b>	<p><b>Production floor</b> 35,000 m<sup>2</sup></p> <p><b>High Voltage lab</b></p> <p><b>Silicone production facility</b></p> <p><b>Warehouse area</b> 4,000 m<sup>2</sup></p> <p><b>High-Bay warehouse</b> 14 m underground</p>		<p><b>Production floor</b> 4,000 m<sup>2</sup></p> <p><b>Silicone production facility</b></p> <p><b>Warehouse area</b> 800 m<sup>2</sup></p>	
<b>Machineries Processes</b>	<p><b>Large machinery:</b> Drawing machines, Drum twisting machine, CCV lines, Degassing chambers, Jacketing lines, Screening machine, HV test rooms</p> <p><b>High Voltage up to 550 kV</b></p> <p><b>Cable rollers up to 60 tonnes</b></p>	<p><b>Large machinery:</b> Injection moulding production, Grinding, Mould installation, Insulation-Injection, Spraying and electrical test field equipment</p> <p><b>Quality control equipment</b></p>	<p><b>Large machinery:</b> Injection moulding production, Grinding, Mould installation, Insulation-Injection, Spraying and electrical test field equipment</p>	
	<p><b>SWISS QUALITY - More than 125 years of experience</b> Expert in the field of high voltage up to 550 kv <b>WIDE PRODUCT VARIETY</b></p>			



# BRUGG CABLES PRODUCTION LINES

	<b>CABLES</b>	<b>HV ACCESSORIES</b>
	 SWITZERLAND	 SWITZERLAND
<b>Types</b>	<p><b>High Voltage cables / systems up to 550 kV:</b> Round or segmented type copper or aluminium conductor with different sheathing options (corrugated al/cu, lead sheath, al/cu screen &amp; al foil)</p> <p><b>Medium Voltage cables up to 36 kV:</b> Copper or aluminium conductor, single core XKDT, multi core XKDT-YT, different sheathing options</p> <p><b>Low Voltage cables up to 1 kV:</b> Stranded or solid copper or aluminium conductor, GKN 1 core, GKN 4-core, flex trafo-cables</p> <p><b>Max. cross-section:</b> 1,600 mm<sup>2</sup> round-, 2,500 mm<sup>2</sup> segmented-conductors</p> <p><b>Max. drum weight:</b> 60 tons</p>	<p><b>High Voltage cable accessories:</b> (joints, terminations) (up to 550 kV)</p> <p><b>Terminations:</b> Indoor, outdoor, dry type and fluid filled</p> <p><b>Joints:</b> for polymer cables and different applications</p> <p><b>Grounding accessories:</b> Link boxes, grounding sets</p> <p><b>Cable clamps</b></p> <p><b>Installation tools</b></p>

## HV ACCESSORIES



CHINA

### High Voltage cable accessories:

(joints, terminations)  
(up to 550 kV)

### Terminations:

Indoor, outdoor, dry type  
and fluid filled

### Joints:

or polymer cables and  
different applications

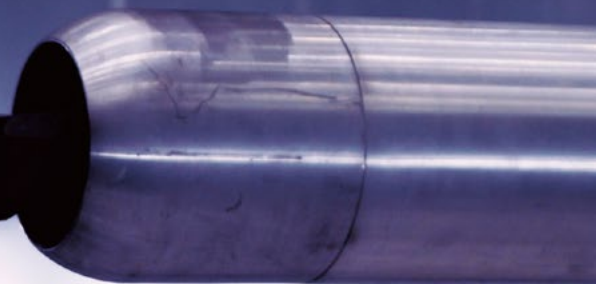
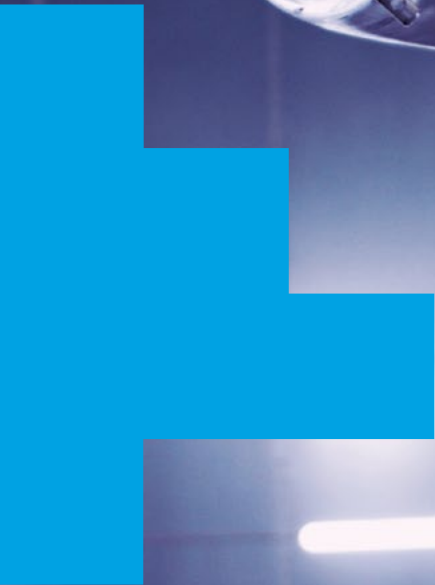
### Grounding Accessories:

Link boxes, grounding sets

### Cable clamps

### Installation tools





## INNOVATION AND RESEARCH

### Our High Voltage Lab

- Faraday Cage L 36m / W 22m / H 24 m
- Noise Level < 2pC
- Up to 1200 kV Power Frequency
- Up to 3000 kV Lightning Impulse
- Up to 2000 kV Switching Impulse
- Switching impulse voltages in positive polarity up to 1250 kV
- D. C. voltages up to + / - 800 kV
- Inductive heating transformers up to 4000 A
- Partial discharge measurements level < 2 pC at 1200 kV
- Rain Test

## **SUSTAINABILITY AND QUALITY**

We follow ESG guidelines which are aligned with our shareholder Terna. Brugg Cables is a member of United Nations Global Compact since 2021 and commits itself to the Ten Principles and the 17 Sustainable Development Goals.

The health and safety of our employees is of highest importance to us.

We track and investigate every near miss and accident at work. Provision of the best suitable PPE is a matter of course for us. With our insurer suva and are certified against the standard safety culture ladder level 3.

Our reputation is Swiss Quality since 1896. From incoming raw material checks to final 100% testing of our products, we are committed to deliver our clients faultless products ensuring reliable energy transmission for years to come.

**We are ISO 9001 certified since 1995 and run an integrated Management system incl. ISO 14001 and 45001.**





## WHAT MAKES US UNIQUE

- **Over 125 years of history and experience:** a rich legacy that speaks to our expertise and reliability.
- **Strategic location in Switzerland:** Situated in the heart of Europe, Switzerland is renowned for its quality, organization and efficiency. Our central location in Switzerland's industrial hub adds to our robust foundation.
- **International footprint:** with direct presence in at least 7 countries across Europe, Asia and America and market reach extending to Africa and Australia, we ensure prompt customer support across all five continents.
- **Family business ethos:** despite our global expansion, we maintain the close-knit, personal touch of a Swiss family business, fostering strong internal and external relationships.
- **Customized solutions:** We collaborate closely with our clients to develop tailored solutions for specific challenges.
- **Part of the Terna Group:** As a member of one of the world's largest TSOs, we benefit from unparalleled experience in cable system operations.
- **Commitment to quality and product development:** We focus on continuous improvement of existing products and the development of new innovations.
- **Innovative research and collaboration:** We work closely with top universities, research institutes and leading laboratories to conduct cutting-edge research projects and rigorous testing.
- **Presence in international committees:** We ensure our presence and contribute our expertise to the committees that establish international standards.





## Brugg Cables Headquarters

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Switzerland



[www.bruggcables.com](http://www.bruggcables.com)

Follow us on social media to stay updated on our latest innovations and projects.



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