



Terna
Energy
Solutions

MARCH 2025

Brugg Cables

Well connected.



Brugg Cables 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

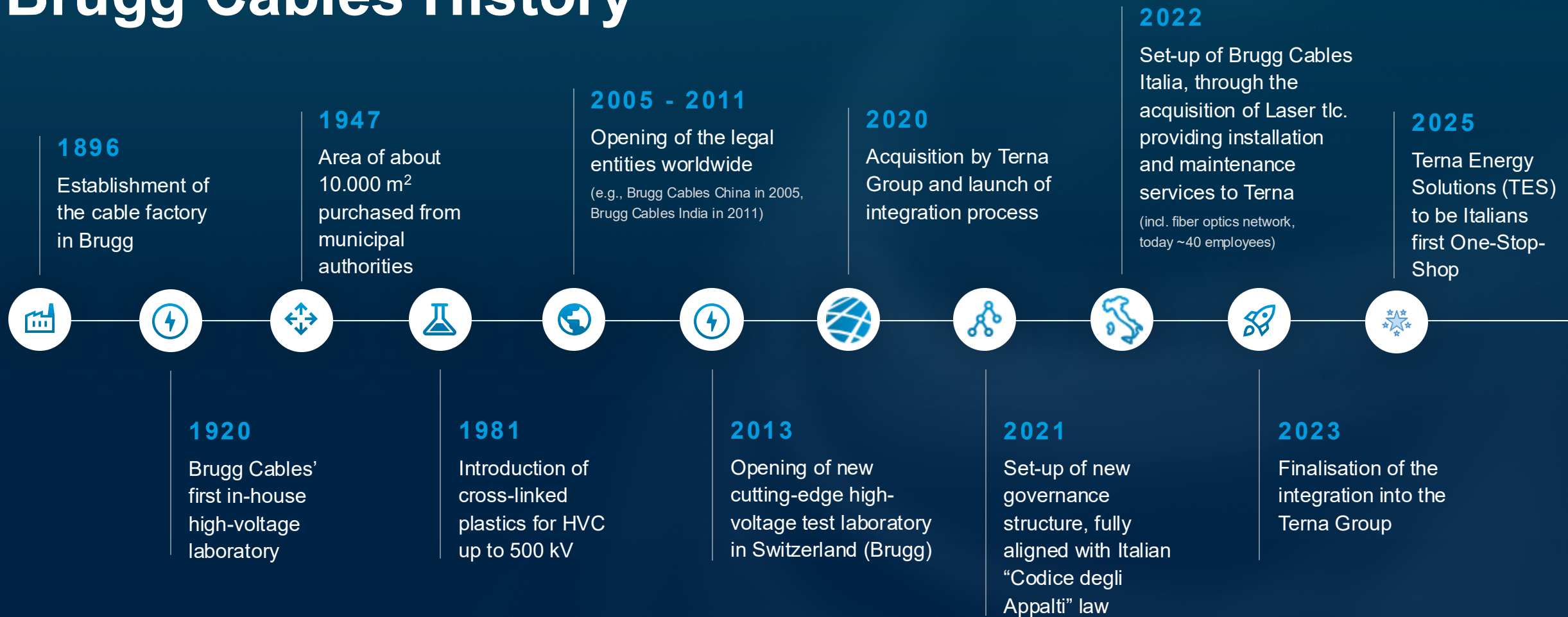




**MY PERSONAL COMMITMENT,
AND THAT OF ALL THE PEOPLE
WHO WORK EVERYDAY IN EACH
OF OUR LOCATIONS AROUND THE
WORLD, IS TO CONSTANTLY STRIVE
TO ACHIEVE THE OBJECTIVES
OF OUR VISION.**

Gianluca Vettese, CEO Brugg Cables

Brugg Cables History



Terna and Brugg Cables

Brugg Cables: since 2020 a member of the Terna Group.

Terna Energy Solutions (TES) leverages Terna's extensive experience as the national electricity transmission grid operator to drive the energy and digital transition. Through a portfolio of specialized companies, TES delivers technological, sustainable, and competitive solutions for the design, implementation, and maintenance of complex, digitalized energy systems.

With expertise spanning the entire project lifecycle, TES provides end-to-end support, including the supply of strategic energy transition components such as cables and electrical transformers. Synergies within the Group ensure operational and commercial excellence, offering integrated, high-value solutions tailored to diverse customer needs in the energy and connectivity sectors.

Terna and Brugg Cables
**AN INTEGRATED NETWORK OF EXPERTISE FOR THE ENERGY
AND DIGITAL TRANSITION.**



Terna Energy Solutions

MORE VALUE, TOGETHER.

Globally Active

Brugg Cables is a high, medium and low voltage cables and accessories manufacturing company with a global commercial footprint.



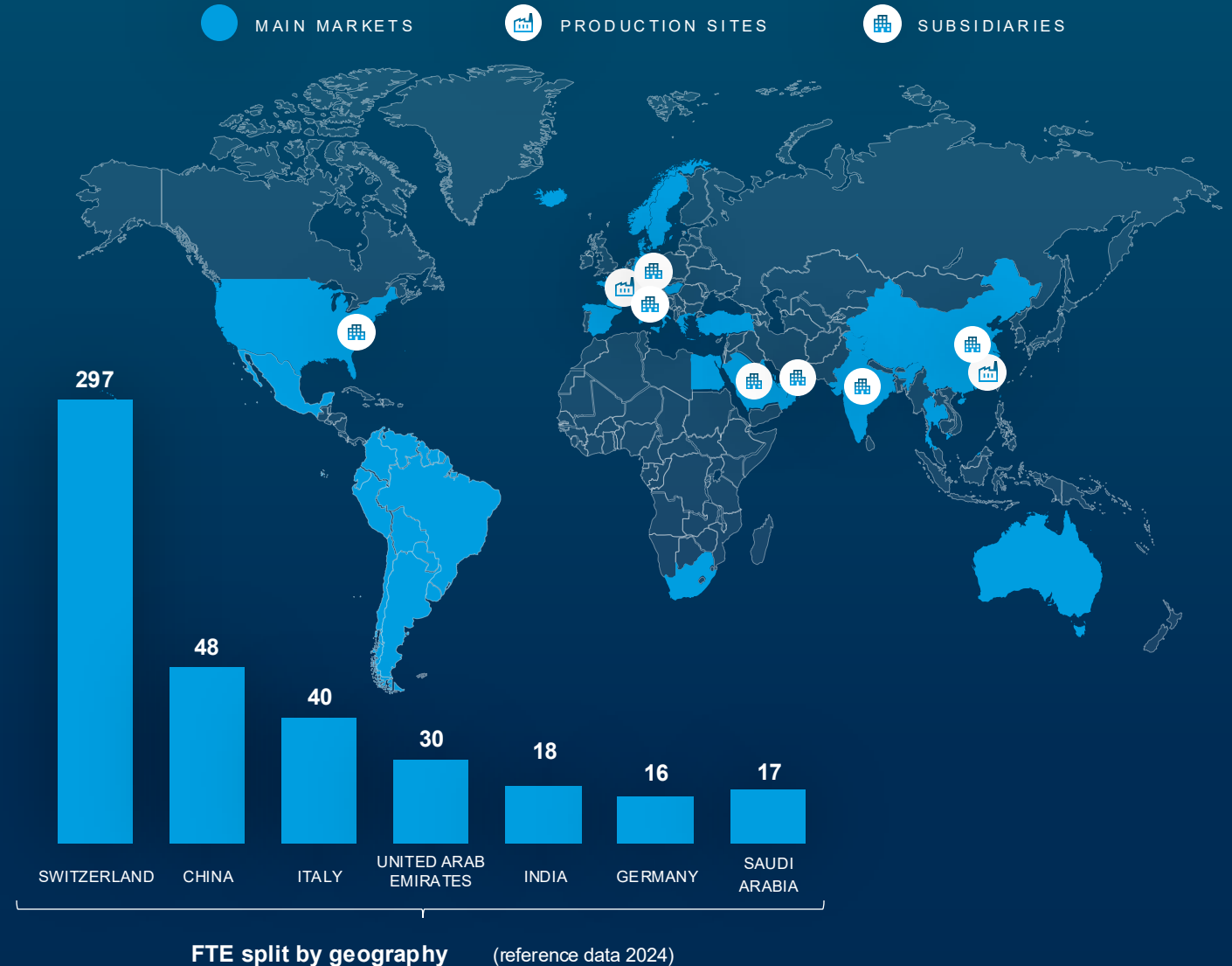
Production of HV and LMV Cables and HV Accessories, in Brugg (CH) and in Suzhou (China) (only accessories)



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



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



Brugg Cables Financials

BRUGG CABLES ORDER ENTRY



BRUGG CABLES REVENUES



ROAD TO 2028



Revenues 2023-2028 CAGR: +2%



EBITDA 2023-2028 CAGR: +32%



CapEx 2023-2028 CAGR: +13%



CapEx Plan 2023-2028: 36 MCHF

CAGR = Compound Annual Growth Rate

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 cornerstone 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.



Brugg Cables Business Model



Cables



Accessories



Installation/Maintenance

HV ACCESSORIES

Brugg Cables' High Voltage **accessories**
(joints, terminations)
(up to 550 kV)

**Accessories &
Installation**



+

Monitoring Systems

+

Brugg Cables Academy

HV SYSTEMS

Brugg Cables' High Voltage **cables** and **accessories** (up to 550 kV)
Brugg Cables' High Voltage **systems** (150 and 220 kV)

Third party HV **cables**
Maintenance services
Optical fiber services

Practical and theoretical **trainings** on power cables

"MAKE" (Systems)



EPC (System)



AMS



A & I



+

Brugg Cables Academy

LM VOLTAGE PRODUCTS

Brugg Cables' Low / Medium Voltage **cables**

Systems



+

Brugg Cables Academy

**PRODUCTS /
SERVICES**




CLIENTS

Third parties (mainly producers of cables
and EPC Worldwide)

Terna Rete Italia
Third parties (mainly TSO, DSO, EPC in DACH
and Middle East)

Third parties (EPC and DSO,
mainly in Swiss Market)

Brugg Cables Production Assets

	CABLE	HV ACCESSORIES	
	SWITZERLAND 	SWITZERLAND 	CHINA 
AREA	Production floor 35'000 m ² High Voltage lab Silicone production facility Warehouse area 4'000 m ² High-Bay warehouse 14 m underground		Production floor 4'000 m ² Silicone production facility Warehouse area 800 m ²
MACHINERIES PROCESSES	Large machinery: Drawing machines, Drum twisting machine, CCV lines, Degassing chambers, Jacketing lines, Screening machine, HV test rooms High Voltage up to 550 kV Cable rollers up to 60 tonnes	Large machinery: Injection moulding production, Grinding, Mould installation, Insulation-Injection, Spraying and electrical test field equipment Quality control equipment	Large machinery: Injection moulding production, Grinding, Mould installation, Insulation-Injection, Spraying and electrical test field equipment

SWISS QUALITY — MORE THAN 125 YEARS OF EXPERIENCE
EXPERT IN THE FIELD OF HIGH VOLTAGE UP TO 550 KV — WIDE PRODUCT VARIETY

Brugg Cables Product Lines

CABLES

SWITZERLAND



High Voltage cables / systems up to 550 kV:

Round or segmented type copper or aluminium conductor with different sheathing options (corrugated al/cu, lead sheath, al/cu screen & al foil)

Medium Voltage cables up to 36 kV:

Copper or aluminium conductor, single core XKDT, multi core XKDT-YT, different sheathing options

Low Voltage cables up to 1 kV:

Stranded or solid copper or aluminium conductor, GKN 1 core, GKN 4-core, flex trafo-cables

Max. cross-section: 1'600mm² round-, 2'500mm² segmented-conductors

Max. drum weight: 60 tons

HV ACCESSORIES

SWITZERLAND



CHINA



High Voltage cable accessories:
(joints, terminations) (up to 550 kV)

Terminations: Indoor, outdoor, dry type and fluid filled

Joints: for polymer cables and different applications

Grounding accessories: Link boxes, grounding sets

Cable clamps

Installation tools

High Voltage cable accessories:
(joints, terminations) (up to 550 kV)

Terminations: Indoor, outdoor, dry type and fluid filled

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Cable clamps

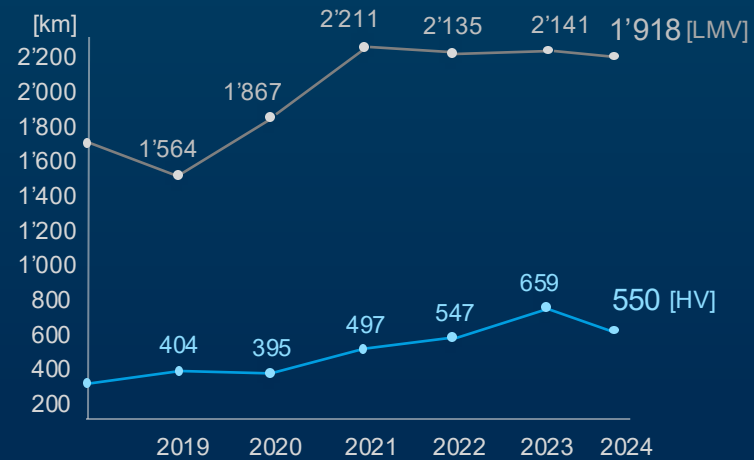
Installation tools

TYPES

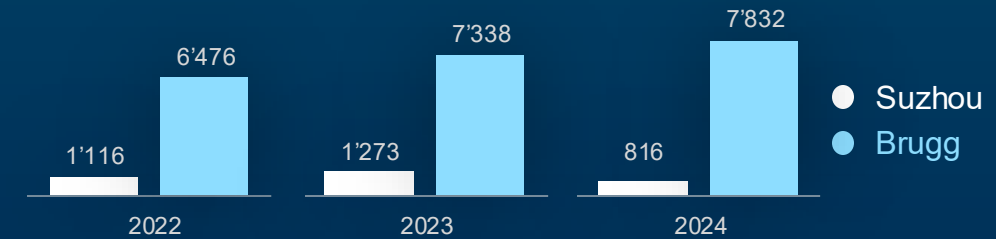
Annual Development Output



CABLES PRODUCTION EVOLUTION



HV ACCESSORIES PRODUCTION EVOLUTION



(reference data 2024)

UNLIMITED TESTING POSSIBILITIES

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



THE CONCEPT OF CIRCULAR ECONOMY IN OUR PRODUCTS

Our commitment to health, environment & 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 we initiated the project safety@work 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 WE OFFER

What makes Brugg Cables special

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 hug 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.

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



WHAT WE OFFER

What makes Brugg Cables special

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.

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Thank you
for your
attention.

