

TE ENERGY PROFILE



ON TIME WITH CONFIDENCE

INTRODUCTION

TE ENERGY is based in Estonia, one of Europe’s most innovative and technologically advanced countries. As the birthplace of globally recognized companies like Skype, Bolt, and Wise, Estonia continues to lead in technological solutions, fostering a culture of high standards and innovation.

On time with Confidence – this is our motto and the foundation of everything we do. Leveraging Estonia’s strategic location and efficient logistics networks, we ensure rapid delivery across Europe, maintaining efficiency without compromising quality. Our optimized processes enable us to deliver to Poland in just 2 days, Germany in 3 days, Spain in 4 days, and the United Kingdom in 5 days.

We are committed to delivering reliable and innovative solutions, driven by our deep knowledge and expertise, ensuring that every step of our process results in timely outcomes and reflects our extensive industry experience.

HISTORY

Founded 23 years ago, TE ENERGY has grown into a trusted leader in the industry. Over the years, we have successfully installed more than 10,000 air-insulated medium voltage switchgear panels worldwide – all designed without the use of SF6, highlighting our commitment to environmental responsibility and sustainable solutions.

Our long-standing success is built on a solid foundation of quality, safety, and innovation, which have been the driving forces behind our growth and our ability to meet the evolving needs of our clients.



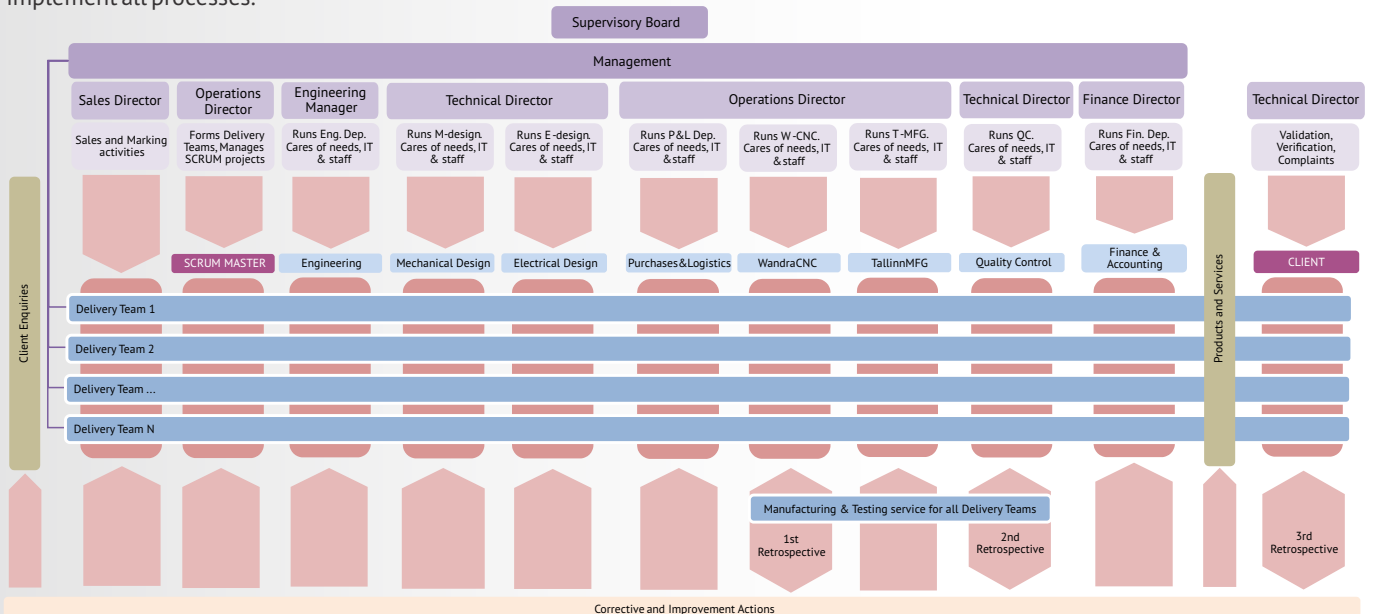
ORGANIZATION

TE ENERGY operates from two key locations: Tallinn and Vändra.

Tallinn is the hub for our headquarters and also home to our switchgear factory, where we design and manufacture our medium voltage switchgear panels. The Tallinn site oversees project management, sales, customer relations, and the entire manufacturing process.

Vändra houses our metal factory, which plays a vital supporting role in the production process. It specializes in producing core metal components that are integral to the switchgear panels manufactured in Tallinn.

A key feature of our company is that we work within Scrum – a flexible, agile management framework that guides how we establish and implement all processes.



OUR PRODUCTS

At TE ENERGY, we specialize in designing, manufacturing, and providing high-quality medium voltage switchgear products that are essential for ensuring the safe and efficient distribution of electrical power. Our products are built with precision and reliability, meeting the highest industry standards.

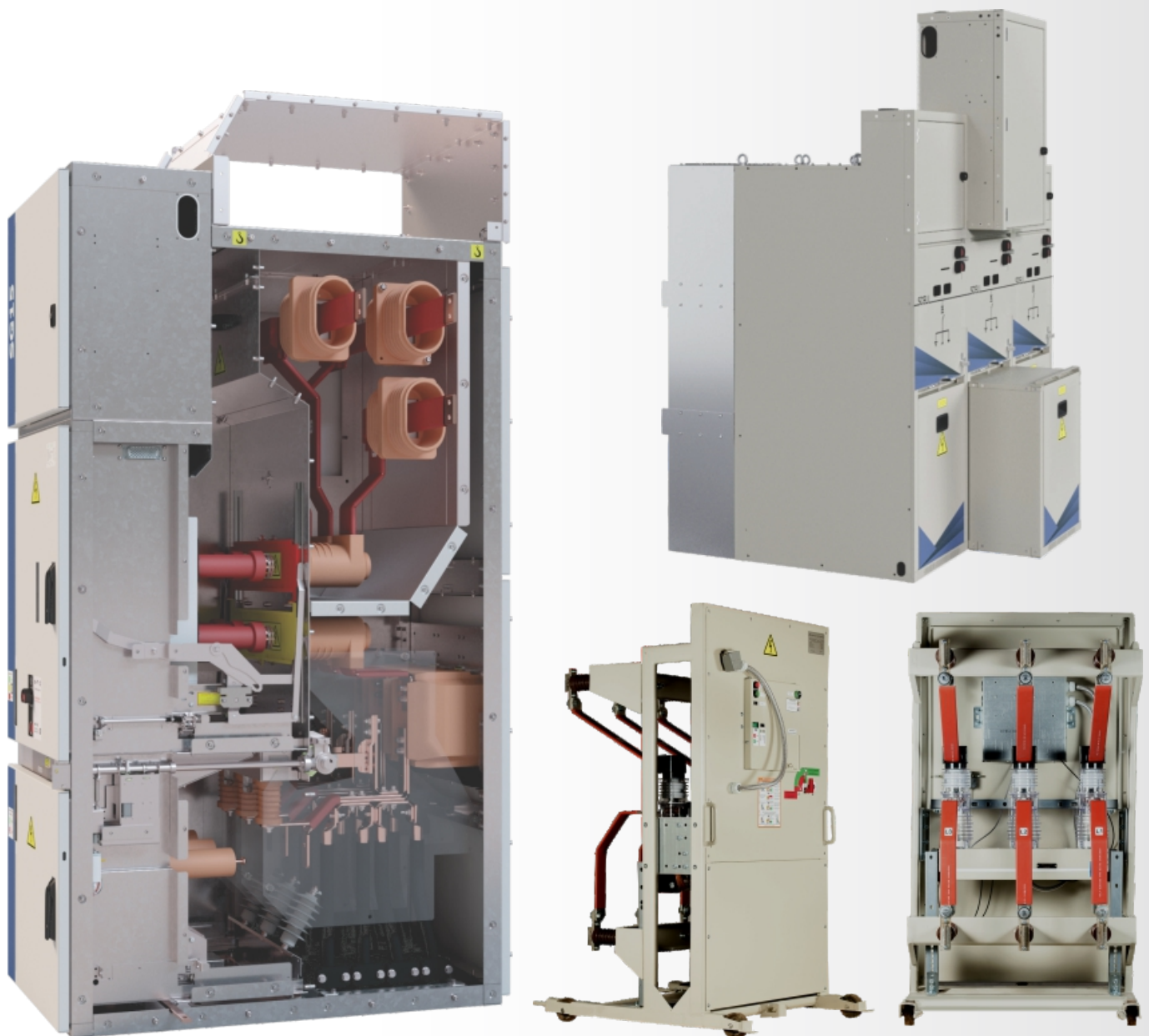
Our key products include:

- Air-Insulated withdrawable switchgear, type MILE up to 36kV for primary and secondary distribution
- Air-Insulated fixed switchgear, type SCELL up to 24kV for primary and secondary distribution
- Air-Insulated RMU, type SCELL-MONO up to 24kV for secondary distribution
- Wide range of Retrofit solutions
- TE2SCADA turn-key solutions for distribution automation projects (SCADA)

In addition to our high-quality products, we also offer a wide range of services to support our customers at every stage of their projects.

Our services include:

- Contract Manufacturing: We provide end-to-end solutions for metal and electrical assembly using advanced tools and technology, ensuring high-quality production tailored to your specific needs.
- EPC Contracting: Our EPC (Engineering, Procurement, and Construction) services offer expert project management for medium voltage substations, handling every phase from design through to commissioning.
- Installation and Commissioning: We ensure the efficient setup and operation of our switchgear products, with global deployment of skilled technicians and comprehensive staff training to support effective system management and operation.



MILE AIS

The MILE **SG15** and **SG25** switchgear series (LSC2B-PM, AFLR 31.5 kA/1s) is designed for indoor installations, offering exceptional protection in primary and secondary distribution systems. With a voltage rating of up to 24 kV, a continuous rated current of up to 4000 A, and the ability to withstand a short-circuit current of 31.5 kA, this arc-resistant switchgear ensures outstanding safety, reliability, and performance in demanding applications, including mining, oil and gas, marine, data centers, and other critical infrastructure sectors.

TECHNICAL DATA (SG15; SG25)

Rated voltage, kV	12; 17,5; 24			
Rated current, A	Up to 4000			
Rated short-circuit withstand current, kA	Up to 31,5			
IAC classification (IEC62271-200)	AFLR 31,5 kA/1s			
Class	LSC2B-PM			
IP	IP4X; IP41			
Dimensions, mm	Type	Width	Depth	Height
	SG15	600; 750; 1000	1350	2348
	SG25	750; 1000	1590	2348



The **SG40** maintains the reliable, field-proven design of the MILE family, suited for higher voltage ratings of up to 36 kV. Its typified design ensures that the arrangement of equipment and instruments in the panel reflects the common switchgear configuration preferred by customers globally. The floor truck design facilitates the easy removal and maintenance of the vacuum circuit breaker, ensuring efficient servicing.

TECHNICAL DATA (SG40)

Rated voltage, kV	36; 40,5
Rated current, A	Up to 3150
Rated short-circuit withstand current, kA	Up to 31,5
IAC classification (IEC62271-200)	AFLR 31,5 kA/1s
Class	LSC2B-PM
IP	IP4X; IP41
Dimensions, mm (WxDxH)	1200x2700x2500



SCCELL AIS AND MONOBLOCK RMU

The **SCCELL** compact air-insulated switchgear is designed for primary and secondary distribution systems where space efficiency, safety, and reliability are essential. With its compact design and fixed-pattern circuit breakers, SCCELL provides an ideal solution for installations requiring a smaller footprint without compromising on performance.

The **SCCELL-MONO** version offers a simplified, cost-effective solution for RMU (Ring Main Unit) applications, designed to meet the common requirements of utilities. While retaining the core design principles of the SCCELL series, SCCELL-MONO is optimized to provide a budget-friendly option, delivering essential features for efficient secondary distribution. Available with either a vacuum circuit breaker (VCB) or load-break switch (LBS), and paired with a versatile three-position Changeover Switch (COS), SCCELL-MONO ensures flexibility and reliability for a wide range of applications.

TECHNICAL DATA (SCCELL; SCCELL-MONO)

Rated voltage, kV	12; 24
Rated current, A	Up to 1250
Rated short-circuit withstand current, kA	Up to 25
IAC classification (IEC62271-200)	AFLR 25 kA/1s
Class	LSC2B-PM
IP	IP4X; IP41
Dimensions, mm (WxDxH)	500x600x1490



RETROFIT SOLUTIONS

Upgrading aging switchgear panels is essential for enhancing reliability, safety, and efficiency without the need for a full system replacement. Our retrofit solutions provide a cost-effective way to extend the lifespan of existing installations by integrating modern technology into legacy switchgear. By replacing outdated circuit breakers with state-of-the-art vacuum circuit breakers (VCBs) and upgrading protection and control systems, our solutions ensure compliance with current operational and safety requirements while minimizing downtime and investment costs. With a retrofit database built over more than two decades, we have successfully implemented hundreds of unique solutions, demonstrating our extensive experience in providing tailored, reliable upgrades, with just a few examples shown below:



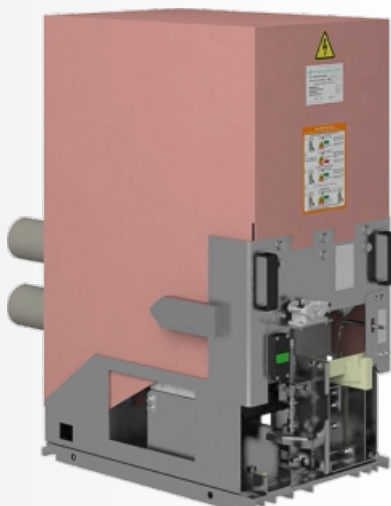
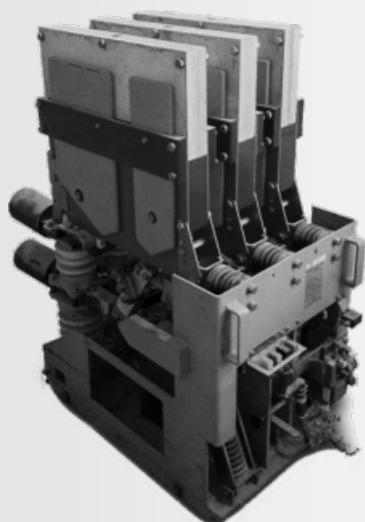
HAWKER ORIGINAL LEGACY CB

Type	D4X/DX6X/D8X
Rated voltage, kV	12
Rated current, A	400-2000
Breaking current, kA	25
Frequency, Hz	50/60



MITSUBISHI ORIGINAL LEGACY CB

Type	10-VPR-25B
Rated voltage, kV	12
Rated current, A	400-1250
Breaking current, kA	31,5
Frequency, Hz	50/60



TOSHIBA ORIGINAL LEGACY CB

Type	AKTC-6M39
Rated voltage, kV	7,2
Rated current, A	1250
Breaking current, kA	31,5
Frequency, Hz	50/60

SERVICES

At TE ENERGY, we go beyond being just an OEM. We are a full-service provider offering a wide range of solutions that support every stage of your project, from design and manufacturing to installation, commissioning, and ongoing support. With decades of experience in the industry, we specialize in delivering high-quality, customized products and services tailored to meet the unique needs of each customer. Our commitment to excellence extends across all aspects of our operations, ensuring that we provide not just products, but comprehensive, reliable, and efficient services that add value to your business.

Contract Manufacturing

As a specialized metal factory, our contract manufacturing services extend beyond switchgear, covering a wide range of products that incorporate metal, electronic, and electrical components. Our facility is equipped with advanced tools such as precision laser cutting machines, CNC bending equipment, punching machines, TIG and MIG welding tools, and finishing equipment. These capabilities enable us to offer comprehensive, end-to-end solutions, from sourcing raw materials to final assembly, ensuring that every product meets strict quality standards and is delivered on time.

EPC Contracting

Our EPC (Engineering, Procurement, and Construction) contracting services specialize in the comprehensive management of medium voltage substation projects, including kiosk, indoor, and containerized types. We oversee every phase of the project, from initial design and material procurement to construction and commissioning, ensuring seamless integration and optimal performance of your energy infrastructure.

Installation and Commissioning

Our installation and commissioning services ensure that our switchgear products are set up and functioning efficiently. Our expert team manages the installation process with precision and conducts thorough testing to ensure that all systems meet performance expectations and industry standards. We offer global reach, with the capability to deploy our skilled technicians worldwide, ensuring seamless installation and commissioning wherever you are. Additionally, we provide comprehensive staff training, equipping your team with the knowledge and skills necessary for effective system management and maintenance.



CREDENTIALS

With decades of experience, we have built a strong reputation for delivering high-quality, reliable solutions. We are certified to international standards, including ISO 9001, ISO 14001, and ISO 45001, ensuring the highest levels of quality, safety, and environmental responsibility.

Our products are certified to IEC standards, such as IEC 62271-200 (Metal-Enclosed Switchgear) and IEC 62271-100 (High-Voltage Circuit Breakers). Additionally, we comply with key regulations, including EMC, EU Directives, and RoHS, ensuring our products meet rigorous environmental, safety, and performance standards.

Our portfolio includes successful collaborations with leading companies across energy, industrial, and infrastructure sectors, with just a few examples listed below.



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In line with the growing focus on sustainability, we are fully committed to Life Cycle Assessment (LCA) and Environmental Product Declaration (EPD). LCA is a method used to evaluate the environmental impact of a product throughout its entire life cycle, from raw material extraction to disposal. Building on this, an EPD is a detailed report that communicates the environmental performance of a product based on recognized standards. Together, these practices help us minimize our carbon footprint and reinforce our commitment to reducing environmental impact as part of our ongoing sustainability efforts.



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