Everything for Smarter, More Energy Efficient and Resilient Power Transmission & Distribution Networks

Alles für intelligentere, energieeffizientere und widerstandsfähigere Stromübertragungs- und Verteilungsnetze

SHOW PREVIEW 2025

Power Transmission & Distribution Technology EXPO

16, 17 & 18 September 2025

Koelnmesse, Cologne, Germany

100% Focus • Leading International Exhibitors • Free To Attend

100 % Fokus • Führende internationale Aussteller • Kostenlose Teilnahme

www.powertranstech.com

Power Transmission & Distribution Technology EXPO

THE NEW SHOW

100% Focused Exhibition on Power Transmission and Distribution Technologies - Join Us!

Power Transmission & Distribution Technology Expo 2025 in Cologne this September presents an incredible line-up of 100+ blue chip international companies showcasing a fantastic array of innovations for the design, management and maintenance of future Grids, Substations and Distribution Networks. Register for your free one, two or three day entry pass NOW! Help us Give You the Best Possible Experience.

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- 100% Focused on Power Transmission and Distribution Technologies.
- Showcasing the Latest and Best Technology from 100+ Leading International Equipment Manufacturers and Suppliers.
- Compact One Dedicated Hall Expo in Hall 10.1 at Koelnmesse.
- Free Entry to the Expo and Presentation Stages with 80+ Speakers.
- Free Parking Outside the Hall Undercover and No Long Walks.
- Free to Attend Industry Presentations by TSOs, DSOs and Leading Companies including Siemens Energy, GE Vernova, Cisco and Schneider Electric.
- Efficient Use of Your Time.
- In-Hall Catering Options includes fresh cooked Pasta, Asian and Pizza options.
- Meeting and Workspaces incorporated in the Layout for maximum networking and connection with your office with charging for phones and tablets.
- Outdoor Smoking Zone

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THIS IS AN INDUSTRY ONLY SHOW AND HAS NOT BEEN PROMOTED TO THE PUBLIC

16, 17 & 18 September 2025 Koelnmesse, Cologne, Germany

Power Transmission & Distribution Technology EXPO

WHAT'S ON SHOW

Based on the Exhibitor Information as detailed in this Preview

Smart Grid Technology

- Grid Management and Automation
- Grid Reliability, Stability, Efficiency and Resilience Planning
- Grid Digitalisation, Balancing and Capacity Management
- Grid Optimisation
- Dynamic Line Rating Systems
- Insulators
- Cables, Conductors and Superconductors

Transformers

- Transformer Health and Repair
- Transformer Components and Thermal Management
- Transformer Switchgear
- Rapid Prototyping
- Inspection Services and Technologies

Substation Technologies

- Substation Automation
- Intelligent Substations
- Substation Monitoring
- Substation Switchgear

Energy Transition Solutions

- Software
- Grid Management Software and Fault Location
- Simulation, Powerflow and Fault Finding
- Data Management and Integration
- Monitoring, Cameras, Detection and Surveillance
- Metering, Alarm Systems and Fault Identification
- Environmental Mitigation and System Protection
- Detection and Analytics
- Control Room Systems
- Test and Measurement Systems

Drones

Springs and Pressings

- Insulators
- Digital Twins
- Virtual Reality for Training
- SF6 Regeneration, Recycling and Management
- Network Protection
- Communications for Networks
- Switchgear Components

VENUE INFORMATION

Hall 10.1

koelnmesse
we energize your business | since 1924

Messepl. 1, 50679 Köln, Germany

- **Taxi drop off** right outside the entrance to the Hall. Free parking right outside the Hall.
- **Travel by air** via Cologne/ Bonn Airport or Dusseldorf Airport recommended or via Frankfurt International Airport.
- **Look out for** Electronic Road Signs to PowerTrans Expo

SHOW HOURS

Tuesday 16th September: **10:00hrs – 17:00hrs**

Wednesday 17th September: **10:00hrs – 17:00hrs**

Thursday 18th September: **10:00hrs – 13:00hrs**

This Show Has Been Created by a Team that includes Exhibition Industry Leaders With Record Breaking New Show Status. Shows created by the Team have gone from incredible launch to 28 years of excellence.
A mission that started in 1996!

WHAT TO SEE

Visit ACKERMANN To See High-Voltage Technology Know-How, With Made to Measure Testing, Measurement and Production Systems. Customization is Their Keyword

ACKERMANN designs and builds customized testing, measurement, and production systems for the energy industry – from prototyping to full-scale series production. Our core focus lies in medium+ high voltage and extra high voltage technology. We offer complete system solutions including engineering, design, manufacturing, and commissioning – all from a single source. Switchgear assembly, electrical integration, and control technology are handled entirely in-house.

Our modular systems are tailored to each customer's needs – precise, flexible, and future-ready. Whether routine test systems, AC resonant setups, DC test fields, or complete test stations for GIS or cable components – we deliver powerful, application-specific solutions. We also develop and implement entire production systems and assembly lines, including process automation and Industry 4.0 integration.

What sets us apart is the combination of deep technical expertise, practical implementation strength, and close customer collaboration. With innovation, experience, and a commitment to quality, we create reliable, efficient, and future-oriented solutions tailored to your exact requirements. By simulating entire test processes in advance – using digital twins, 3D modelling, and virtual reality – we reduce ramp-up times and ensure smooth commissioning. Our systems are designed for longevity, easy handling, and reliable performance under real-world conditions. This allows our customers to focus on what matters most: safety, quality, and operational efficiency.

Airpelago – The Future of Power Line Inspection Takes Flight

Airpelago is Europe's leading power line inspection company, transforming utility maintenance with autonomous drone technology and powerful software. At the Power Transmission & Distribution Expo in Cologne, we're showcasing Airpelago Power — our proprietary platform that simplifies inspection projects from planning to data delivery. Backed by 90+ expert drone pilots, we've inspected over 100,000 km of power lines for 50+ DSOs and TSOs. With EASA's top-tier LUC certification, we operate across the EU without extra approvals, ensuring rapid, scalable, and compliant deployments. Our autonomous operations are not only smarter and safer but also significantly greener — replacing helicopters to cut emissions. Whether you need full-service inspections or software to run your own fleet, Airpelago elevates grid inspections to new heights.

Ampacimon dynamic line rating systems enable up to 40% more power through lines

Ampacimon's software-only and sensor-based Dynamic Line Rating (DLR) systems provide accurate and reliable data, ensuring the safe and efficient operation of transmission lines. They can also help system operators push up to 40% more power through their lines.

Ampacimon's patented sensors are used by international TSOs and DSOs all around the world. The company's drone-installable sensor, Sense-X, is designed to transform how system operators manage their lines. The Sense-X sensor enables DLR, providing accurate measurements of sag and wind directly from vibrations using Ampacimon's patented technique.

DLR solutions from Ampacimon offer several key benefits including:

- **Increased transmission capacity:** by leveraging real-time data, Ampacimon's DLR systems can increase the capacity of existing transmission lines, reducing the need for new infrastructure
- **Enhanced grid reliability:** Ampacimon's sensors provide real-time monitoring of critical parameters, ensuring that transmission lines operate within safe limits and enhancing the reliability of the power grid.
- **Cost-effective solutions:** Ampacimon's DLR technology provides utility companies with an affordable way to optimise their existing infrastructure and defer costly upgrades.
- **Facilitation of renewable energy integration:** Ampacimon's DLR systems support the integration of renewable energy sources by maximising the use of transmission lines during favourable weather conditions.

DLR can be deployed at multiple scales, depending on business strategy and targeted capacity gains – from a line-focused rating system to an analysis of the entire facility.

APAR Industries Ltd's T&D conductors include high ampacity items and can be found in more than 100 countries

In Europe, APAR has supplied more than 13,000MT of conductors to customers such as National Grid, Fingrid, Finland and Svenska Kraftnet. It manufactures T&D conductors – including high ampacity items – such as ACCC,

Supporting the production process, a test and research facility is dedicated to the development of conductors and OPGW cables with NABL certification and has an independent testing facility status. The company's conductors have been successfully validated by a leading independent

WHAT TO SEE

third-party testing lab, meeting safety, performance and reliability compliance to national and international standards. APAR offers a range of solutions to the energy industry and manufacturers overhead aluminium conductors with six production facilities strategically located across India.

To date, APAR's products have been deployed in more than 100 countries, adding value to the transmission and distribution grid of eminent utilities and contractors. The company has supplied products in all continents around the world – and installed these components in various geographies and climate-transcending boundaries.

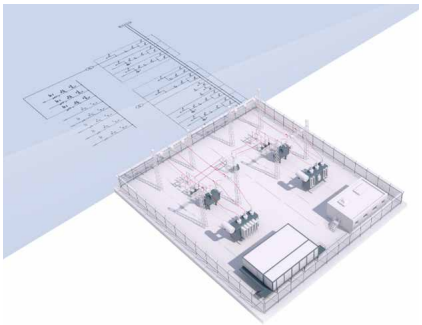
APAR is a diversified company with US$2 billion in revenue from operations, with the conductor business accounting for approximately half of that figure. Publicly listed in India, APAR is a sustainable organisation that believes in continuous improvement and being at the forefront of sustainability, decarbonisation, energy conservation and helping its employees reach their full potential. APAR also believes in the improvement of the communities in which it operates.

AUCOTEC

'Engineering Base' by Aucotec – The first company in the world to integrate the control technology definition as per IEC 61850 directly into Engineering Base PTD in standard form to create the digital substation of the future, faster and in accordance with standard.

From operators and manufacturers to EPCs and suppliers, the data-centric platform Engineering Base PTD promises faster, more efficient engineering for everyone in the field of power transmission and distribution. Preliminary primary equipment planning, secondary equipment including control cabinet routing, distributed control system configuration, conversion support – the more complex the project, the greater the gain in efficiency.

Aucotec has carried out some pioneering work by becoming the first company in the world to integrate the control technology definition as per IEC 61850 directly into Engineering Base in standardized form. The cooperation platform makes it possible to map a substation's entire life cycle – from project idea and detailed planning through to construction and finally maintenance – in a piece of software, thereby bridging the divide between the worlds of hardware and software, i.e. between secondary equipment and control technology.



The digital twin forms the basis for the work of all engineering disciplines as well as for plant construction and maintenance. It reflects the current as-built status at all times and makes Engineering Base the dependable center of all knowledge about the plant – throughout its life.

Bekaert

Bekaert will introduce high tensile steel conductor cores for grid upgrades at the Expo and present the rest of its product range

Power Transmission & Distribution Technology Expo 2025 will see Bekaert introduce its high-tensile steel conductor cores (S5A, S7A, S8A), designed for efficient grid upgrades through reconductoring and new line construction. These IEC 63248-compliant cores, coated with corrosion-resistant Bezinal, enable advanced conductors such as ACSS, GAP and ZTACSR to operate safely up to 200°C – increasing current-carrying capacity while maintaining sag within limits.

The benefits are tangible: double the transmission capacity without replacing towers and up to 40% sag reduction with on-site prestressing and seamless compatibility with standard hardware. Field-proven and ready for inspection with magnetic non-destructive tools, cores from Bekaert offer predictable performance and peace of mind.

For new line construction, Bekaert's high-tensile ACSR conductors combine mechanical strength with low weight and minimal sag – ideal for long spans, harsh weather and lighter tower designs. The result: a leaner infrastructure with a lower total cost of ownership.

Part of the company's Inhera platform, these solutions reflect its commitment to sustainability, circularity and performance. With these products, Bekaert is helping grid operators shape the way we live and move – safely, smartly and sustainably.

Beta ENERJI

Beta Enerji's wide range oil and dry type transformers will be on show in Cologne – all manufactured with efficiency, reliability and sustainability in mind

At Power Transmission & Distribution Technology Expo 2025, Beta Enerji will proudly showcase its oil and dry type transformers, which are engineered to deliver reliability, efficiency and long service life. These products represent a commitment to innovation, energy efficiency and sustainability in power distribution systems. Visitors will have the opportunity to learn about the company's engineering capabilities, high-performance transformer technologies, as well as its tailored solutions for both domestic and international markets.

Beta Enerji is a leading manufacturer of high-quality transformers based in the Adana Hacı Sabancı organised industrial zone in Turkey. With over 60,000m² of production space, the company specialises in the design and manufacturing of oil type and dry type distribution transformers, power transformers and custom-wound

WHAT TO SEE

transformers. For customer peace of mind, Beta Enerji products are certified to international standards, including ISO 9001, ISO 14001, ISO 45001, CE, and TSE.

The expo provides an opportunity to meet industry professionals and potential partners – and to share how Beta Enerji continues to play a vital role in strengthening energy infrastructure. The company's mission is to be a trusted and strategic partner by offering customer-oriented, high-quality solutions that meet the evolving needs of the global energy sector.

BitStream will showcase their Time Synchronization Monitoring System for TSN Networks

BitStream's time synchronisation monitoring system for TSN networks in the energy sector delivers time and frequency monitoring for packet time-sensitive networking, ensuring accurate and uninterrupted synchronisation across critical infrastructure.

Equipped with high-stability oscillator options, the device is capable of detecting synchronisation faults, packet delay variations, network jitter, jamming and spoofing attempts, as well as signal interruptions. Its internal memory allows for up to 72 hours of continuous data logging, displayed via an intuitive local interface or remotely through QuazarNET, which provides live visualisation, alerts and long-term performance trends.

The system is ideal for utilities, grid operators and industrial automation environments where timing precision is not optional, but essential. It supports deeper visibility into network behaviour, enabling proactive maintenance, better incident response and compliance with emerging grid synchronisation standards.

Brodersen will showcase its high-performance remote terminal unit for substations, with a live demonstration on the company's stand

At the centre of the Brodersen product lineup is the RTU32M, a high-performance remote terminal unit, engineered for advanced control in substations and distribution networks. With full compliance to IEC 62443 cybersecurity standards, built-in redundancy and support for AI-assisted logic execution, the RTU32M combines protocol conversion, edge automation and SCADA gateway functionality into one compact device.

In Cologne this September, Brodersen will present a live demonstration of its integrated solutions for digital substations and intelligent distribution automation.

It will also demonstrate its pole-mounted Autorecloser solution, supported by a live switchgear unit to illustrate fast fault isolation and self-healing grid functions – designed for modern feeder automation schemes.

Completing the demonstration is Odin's Eye, Brodersen's powerful network monitoring and RTU fleet management software. Purpose-built for utilities, Odin's Eye enables centralised control, diagnostics and configuration of distributed assets across large geographies with real-time intelligence and intuitive user interface. Together, these offerings represent a robust, secure and future-ready platform for grid modernisation and utility digital transformation.

BRUSH Group will show its new CRYNO SF6-free solution and power transformers range up to 145kV

One of the latest announcements from BRUSH Group was the introduction of CRYNO to its AC switchgear portfolio. Representing the next step in switchgear evolution, CRYNO is an SF_6-free solution that offers enhanced safety, reliability and future-ready performance.

Along with an impressive switchgear portfolio, the BRUSH name is also synonymous with power transformers – a component the company has manufactured since 1889. Its expertise has enabled it to build transformers with power ratings between 5MVA and 120MVA and voltages up to and including 145kV systems in that time.

Always committed to delivering for customers, in recent years the company has expanded its offering, bringing together its experience, engineering skills and technical capabilities to deliver comprehensive engineering solutions to a wide range of infrastructure projects. Services include bespoke design and build, authorising, consultancy, sustainable solutions and fully accredited ICP generation connections. BRUSH Group is a leading engineering solutions company providing innovative, integrated and sustainable solutions for power distribution and power network sectors. It supports the drive to net zero with solutions that address grid resilience, facilitate the electrification of transport and maximise resource efficiency.

WHAT TO SEE

Butler Technologies will join forces with Teledyne and Franklin Grid to offer visitors an insight into their combined camera and monitoring technologies

Butler Technologies will demonstrate its core technologies at the Expo and will be joined on the stand by Teledyne FLIR and Franklin Grid. Butler provides early fire detection and thermal monitoring, which is available on Teledyne FLIR's A70 and A500f cameras. These units include: real-time heat protection; remote thermal monitoring; customised temperature thresholds and SCADA/VMS integration. The cameras also offer insights to help predictive maintenance.

In battery and temperature monitoring, Franklin Grid's, Cellguard and DTM solutions deliver continuous battery health checks and rack-level temperature monitoring. Early fault detection and alerts are also available, in addition to predictive analytics in models that are scalable for all critical power systems.

As the official partner and distributor for Teledyne FLIR and Franklin Grid, Butler Technologies is a reliable figure in the industry and has the engineering capabilities to handle customised installations, configurations and training.

Bynoc offers a full service offering from planning to optimisation of high-voltage infrastructures

Bynoc supports companies in efficiently mastering the challenges of energy transmission and distribution. The company's core competence is the planning, implementation and optimisation of high-voltage cable infrastructures and its expertise is based on many years of experience in the engineering of power cable projects.

Bynoc offers engineering services in the fields of high-voltage cables and infrastructure as well as the analysis and simulation of electrical energy systems. The advice and support provided to customers ranges from planning and project management to the installation of power cable infrastructure, both for AC and HVDC grids, onshore and offshore. From site analysis to cable selection, Bynoc guarantees maximum efficiency and reliability at every project stage. It will also carry out all electrical, thermal and mechanical (cable tension forces) calculations.

AC or DC cable systems are developed and specified using technical and economic criteria – from design and logistics to documented quality checks at every stage of the project. Using this approach, Bynoc designs the most suitable cable for DC connections, creates the cable specification, accompanies the process from production to commissioning and in-time logistics – and ensures quality at every stage. AC connection routes are planned according to customer requirements, using the latest tools, with reliable and transparent documentation.

Bynoc offers a complete portfolio of engineering services for high-voltage infrastructure projects, from system design and development, project management and technical documentation to project implementation and suitable test strategies for quality assurance.

Cunext Group will bring its extensive portfolio of rod, wires and stranded copper and aluminium products to the Expo

Cunext Group specialises in the transformation of the highest quality copper and aluminium. The company focuses on continuous innovation and development of products that provide added value to the market. Cunext Group has a presence in all sectors related to the transmission of energy, data or signals, as well as electrical engines. It also operates in the automotive and railway, wind farm and industrial motor industries, in addition to servicing companies involved with white goods, telecommunications and construction – and many more.

With facilities in the Spanish provinces of Córdoba and Vitoria and in Brescia, Italy, employing over 450 people, Cunext Group is a leading supplier of rod, wires and stranded products. The company's factory in Vitoria is a major production centre for medium-, high- and very high voltage bare conductors for use in overhead lines. It is also a pioneer in the design and manufacture of OPGW cables. The company began operations in Vitoria in 1959 and joined Cunext Group in 2015, continuing the legacy of its years' operating under the previous names of Echevarría Hermanos, Cablerías del Norte (Cablenor), ECN Cable Group and ECN – General Cable.

CurrENT will be on hand to present recommendations on high temperature superconductors for DSO projects and network optimisation

CurrENT, the voice of innovative grid technologies in Europe, has expanded the scope of technologies included in its 'Recommendations for the deployment of DSO projects' publication to add sections on High Temperature Superconductors (HTS), network optimisation and how innovative grid technologies can work together. CurrENT has also added more detail and case studies to the existing technologies from the first edition of the publication. The handbook, designed to empower grid operators at the distribution level, provides recommendations to DSOs and National Regulatory Authorities (NRAs) on how innovative grid technologies can be used to improve grid optimisation and efficiency at the distribution level.

WHAT TO SEE

CYBERHAWK
Your assets. Our solutions. Better decisions.

Cyberhawk will be Demonstrating Winter Resilience - How to quickly scale up the visualisation of storm damage. This is Drones ++ and More

Cyberhawk has been scaling up drone operations and data visualisation for the past 15 years in over 40 countries for TSO/DSOs such as PG&E, SCE, SSE and ESB. This presentation will highlight how we have been dealing with quick deployments when storms affect a whole economy; and it's not just about drone data.

DE ANGELI PRODOTTI
every wire, everywhere.

De Angeli Prodotti's smart conductor technology — as well as its portfolio of conductors, wires and cables — help improve reliability and efficiency

From its 110,000m² manufacturing facility in Bagnoli di Sopra, Italy, De Angeli Prodotti Srl produces 70,000 tonnes of products for the energy and e-mobility sectors. De Angeli Prodotti's product portfolio includes conductors and wires for windings – used in power transformers, electric motors, and e-mobility – and conductors for overhead power lines, ranging from standard mass-market solutions to advanced technologies for demanding infrastructure needs.

The company's smart conductor technology integrates optical fibre to monitor the status of the power line in real-time over its entire operational life. It enables the detection of: breakages or failures; temperature changes; mechanical deformations; and vibrations and acoustic variations.

Specifically, the company's ACCM conductor features a multi-strand carbon core, ensuring higher safety and flexibility compared to single-core designs. Its design maintains operation even if one strand fails, and it is compatible with traditional ACSR installation tools.

With over 1,000km installed in Europe since 2019, it includes an aluminium tube shield and trapezoidal wires for improved mechanical stability. It meets IEC 62818 standards with certified continuous operation at 150°C via the Arrhenius test.

DNV

DNV's Smart Cable Guard helps detect, locate, and predict faults and weak spots in the cable grid

DNV's Smart Cable Guard is an integrated platform for round the-clock, real-time monitoring of power distribution cables and networks. It can detect, locate, and predict faults and weak spots in the cable grid.

With 3,200 systems installed on more than 5,000 miles (8,000 kilometers) of cable, Smart Cable Guard combines proven, state-of-the-art sensor technology, AI data analysis and technical advisory.

Drawing on DNV's industry leading technical, regulatory and operational expertise plus over 20 years of online monitoring innovation, Smart Cable Guard was developed specifically to meet the challenges faced by utilities. The system can be easily installed without impacting day-to-day operations and integrates seamlessly with existing asset management and operations systems including GIS, SCADA and ADMS.

ELSEWEDY ELECTRIC

Elsewedy Electric's power transformers are produced across the Middle East and all of its products are tested to the highest safety and quality standards

Elsewedy Electric operates in five key business sectors: wire, cable and accessories; electrical products; engineering and construction; digital solutions and infrastructure investments. The company exports a wide range of products to over 110 countries worldwide and at the heart of its approach is an all-in-one integrated engineering, procurement and construction (EPC) service.

Elsewedy Electric works to facilitate the global transition towards a sustainable energy future and has established green energy projects and smart cities across Africa, the Middle East and Eastern Europe. In alignment with its 2030 sustainability strategy, Elsewedy Electric aims to extend and enhance its positive impact, provide energy services to a growing customer base and drive decarbonisation, digitalisation and sustainable transition in Egypt and beyond.

Elsewedy Electric produces power transformers in five sites across the Middle East, Africa and Asia, going up to 750MVA, with a voltage of up to 500KV. The transformers are competitively priced and backed by rigorous quality control and testing. As well as opening new factories to meet local demand, Elsewedy Electric uses the latest manufacturing processes. One of these is magnetic field analysis, to ensure that the core and winding designs used in its transformers have maximum stability and efficiency.

With over 40 years of experience in the manufacturing industry, Elsewedy Cables' range of wires and cables all comply with international standards and are recognised locally and globally.

The company prides itself on providing reliable, cost-effective, high-quality products as well as innovative solutions for its customers.

WHAT TO SEE

Emco Industries develops innovative and reliable insulator products, high voltage grid equipment and RTV coating solutions

Emco Industries is a manufacturer and supplier to leading clients in the global pow-er sector. The company operates a state-of-the-art high voltage lab to ensure its products are of the highest quality. Emco Industries also provides RTV silicone rub-ber coating services to its clients, enabling them to enhance the performance of line insulators and substation equipment under polluted conditions.

The company's extensive range of insulator products includes: pin type; spool/shackle; guy strain; cut-out and long rod insulators. In addition, Emco Indus-tries also produces surge arresters, transformer bushings, disconnect switches and instrument transformers.

Energya Industries provides the power and distribution sectors with high quality electrical cables and steel products and structures

At Power Transmission & Distribution Technology Expo 2025, Energya Industries will showcase its latest advances that enhance the efficiency and resilience of modern power infrastructure. The company plays a critical role in power transmission and distribution, leveraging advanced engineering and manufacturing excellence to deliver high-performance power cables and precision engineered steel structures. Solutions support the evolving needs of the energy sector, reinforcing the reliability and sustainability of power networks.

In steel fabrication and galvanisation, Energya Industries provides multiple engineering services including design, supply, fabrication, galvanisation, painting and site delivery and erection of structural steel. It also handles process steel equipment (plate works), tanks, pressure vessels, stacks, equipment, overhead transmission and telecommunication towers, lighting poles and pre-engineered buildings.

High-performance power cables range from low, medium, high and extra high items. Energya manufactures and supplies of electrical power cables (up to 500KV) as well as a full range of specialty cables.

Enging uses IoT and advanced sensor technologies to determine transformer health, helping to reduce repair costs and downtime and extend product life

Unplanned failures in power and distribution transformers can lead to production downtime, financial losses and safety hazards. Enging specialises in providing solutions for predictive maintenance, ensuring that industrial assets remain operational, efficient and protected from costly failures.

Enging is a leading provider of predictive maintenance technology, offering solutions designed to enhance the reliability and performance of power and distribution transformers. The company's range of products includes advanced monitoring software powered by model-based driven analytics. These tools work seamlessly together to track equipment performance in real time, analyse data and predict potential failures before they occur.

The company's IoT devices and sensors continuously collect vital data of the asset, providing real-time insights into transformer health, while its predictive analytics software processes vast amounts of data to detect early warning signs of failures, allowing for timely maintenance interventions. Enging also offers monitoring and alerts via a platform with a centralised dashboard with instant alerts, reports and diagnostic tools

Enging solutions can extend the life of transformers, reducing the need for frequent replacements and capital expenditure, while the ability to detect potential failures in advance can prevent unexpected breakdowns and ensure continuous industrial operations and limit downtime.

The company is committed to delivering reliable, scalable and efficient predictive maintenance solutions tailored to the needs of each industrial client. By leveraging advanced technology, Enging can empower businesses to take control of their maintenance strategies, improve asset reliability and achieve long-term cost savings.

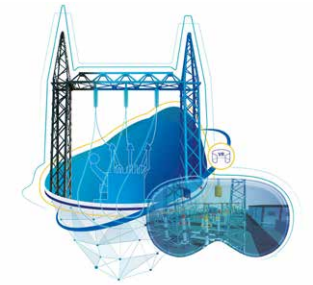
Sensor-less AI-driven Digital Twin for TSOs and DSOs by Enline optimise asset performance and mitigate risks

Through their advanced, sensor-less, AI-driven Digital Twin technology, Enline empowers Transmission System Operators, Distribution System Operators, Energy Generation Companies and Industrial Sectors to optimize asset performance, reduce operational costs, and mitigate risks.

Enline's solutions provide real-time monitoring, predictive insights, and actionable information to streamline energy management, anticipate potential failures, and improve grid stability. Their clients have achieved measurable results, including up to a 35% reduction in OPEX, 20% savings in CAPEX, and a 60% decrease in energy congestion.

WHAT TO SEE

Entegra AG will present a range of Primtech solutions that offer design, engineering and manufacturing benefits



Experts from Entegra AG will be on hand at the company's stand to talk about a range of tools that are designed for intelligent substation BIM design, engineering, virtual reality and digital twin technology.

The primtech 3d intelligent substation BIM authoring software enables users to design and engineer with ease and accuracy. Meanwhile, primtech's OSR+PRO services can help digitalise existing substations and also establish a valid data foundation of company assets. Entegra AG's popular primtech DT solution enables users to visualise, review and share the VR-model and digital twin of a substation across all departments and stakeholders to enable seamless collaboration.

With Equipment in 45 countries FDUEG offer Dry Type and Oil Filled Solutions for transformers and reactors up to 72kV and 20MVA

FDUEG has carved out a niche in various sectors where machines for particular applications that require highly-competent design are needed, including grid application, renewable energy, and naval and offshore application.

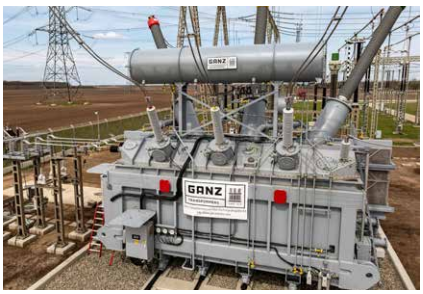
It has developed competitive dry type and oil filled solutions for transformers and reactors up to 72kV and 20MVA, as well as air and iron core reactors, active and passive filters, and converters.

Thanks to the know-how of highly specialized engineers and technicians FDUEG has sold products and systems in over 45 countries worldwide, serving global markets with a growing pres¬ence in Europe, the Middle East and Africa.

Fanye Power Energy Equipment Co., Ltd will present its range of storage and charging solutions and explain its ability to devise clean energy solutions for customers

Fanye Power provides expertise in integrating photovoltaic energy with storage and charging solutions. The company specialises in the design, production, sales and installation of energy solutions such as household photovoltaic storage systems, industrial and commercial photovoltaic/energy storage systems. Fayne Power also combines photovoltaic storage with diesel-electric microgrids. Under the dual carbon goals, it provides sustainable clean energy solutions for its partners.

Ganz is set to introduce an innovative monitoring system for transformers, which will sit alongside its medium and high voltage motors and other products



As part of its commitment to innovation, Ganz has started to develop a monitoring system for transformers called Intelligent Solutions. Once installed, it allows the status and operation of the equipment to be monitored. This increases the reliability and lifetime of transformers and avoids unnecessary maintenance. With this sustainable development, Ganz offers digitalised transformers with a complete monitoring system, as well as customised monitoring devices according to the customers' request, and transformers with sensors integrated for future installations. This approach aligns with the company's dedication to digital transformation within the energy sector, particularly serving the growing demand for advanced digital solutions in the TSO, DSO and renewables markets.

Ganz Transformers and Electric Rotating Machines Ltd manufactures and develops products for a variety of sectors and industries such as renewables, hydro, cement, water handling, steel and many others. The company produces custom-made items with today's modern design and technological solutions that meet the highest industry standards.

Ganz Transformers Division specialises in designing, manufacturing and testing transformers for diverse applications, delivering solutions in a wide range of powers from 40 to 500MVA up to 800kV. By combining cutting-edge technol-

WHAT TO SEE

ogy with decades of expertise, Ganz ensures that each transformer delivers exceptional performance and durability even in the most challenging conditions.

Ganz offers a broad portfolio of medium and high voltage motors and synchronous generators, tailored for versatile industrial applications. The rotating machines division specialises in designing, manufacturing and testing medium and high voltage induction motors from 500kW to 20MW and synchronous generators from 1000kVA to 50MVA.

GE VERNOVA

GE Vernova will demonstrate GridBeats in Cologne — automation systems that are designed for grid digitalisation and to provide operators with more grid control

Asset and operations managers are the very heartbeat of grids, helping keep everything moving as the industry pursues net zero and digitalisation.

But they can't do it alone. That's why GE Vernova created GridBeats, a portfolio of software-defined automation solutions for grid digitalisation. These advanced AI/MI-backed solutions give operators deeper visibility, resiliency and control over their grid.

GridBeats aids grid resilience and reliability with faster controls, artificial intelligence/machine learning (AI/ML)-based automation and heightened cybersecurity. It improves visibility across the grid, from larger areas down to specific equipment, thanks to accurate sensors and reliable communications infrastructure. With software-defined automation, it also offers greater flexibility and faster deployment. With these features and more, GridBeats aims to modernise grid operations, boost performance and speed up the shift toward sustainable energy.

GreenTransfo™

Green Transfo brings together years of expertise in transformers through the amalgamation of leading industry companies

Green Transfo was established as a subsidiary of Groupe Cahors Holding SAS in 2023 after the acquisition of two transformer manufacturing plants that have a legacy of more than 60 years under different global organisations, such as AEG, Alsthom, Alstom, Areva and Schneider Electric. The company is proud to continue this legacy of excellence in the transformer industry and is committed to providing its customers with high-quality products and services.

Green Transfo specialises in the design, production and distribution of a wide range of transformers, including power transformers, distribution transformers and special transformers. The company's state-of-the-art manufacturing facilities are equipped with the latest technology and equipment, allowing it to produce transformers that meet the highest industry standards.

Green Transfo believes in sustainability and is committed to reducing its environmental footprint. The company incorporates eco-friendly materials and production methods into its manufacturing process whenever possible – and works closely with its suppliers to ensure that all raw materials are ethically sourced.

The team is comprised of experienced professionals who are dedicated to providing exceptional customer service. Green Transfo works closely with its customers to understand their unique needs and to provide customised solutions that meet their specific requirements. Green Transfo believes that its success is built on a foundation of trust, integrity and respect. The company is committed to upholding these values in everything it does – and it strives to build long-lasting relationships with its customers, suppliers and partners – fostering continuous improvement and innovation across the industry.

GWP greenwood power

Greenwood Power's range of cost-effective and scalable tools are designed to help the navigation and adoption of IEC 61850-based protocols

One of the key technologies driving the digitalisation of grids is the adoption of communication protocols based on the IEC 61850 standard, which ensures both scalability and interoperability within energy networks. To navigate this transformation, energy providers need reliable, scalable and cost-effective tools for measurement, control and system monitoring. Conventional instrument transformers (ITs) fall short in meeting these demands due to their bulky design, efficiency limitations and inability to adapt to modern grid requirements.

Greenwood Power specialises in the design and development of non-conventional instrument transformers for the medium voltage grid. Products are dedicated to a variety of applications, such as gas and insulated switchgears and outdoor installations, which have high resistance to harsh environmental conditions.

GRIDCAL

Smart, scalable solutions for digital low-voltage grid management by GridCal

GridCal provides grid operators with smart, scalable solutions for digital low-voltage grid management. Their core offering – the GridCal System – is a unique hybrid architecture combining intelligent edge-computing (GridCal Nodes) for substations and a central platform (GridCal Operator) for orchestration and scalability.

This approach delivers local intelligence in the field and central control at scale. Edge devices collect and analyze grid data in real time, enabling fast, autonomous decisions. The central

WHAT TO SEE

platform ensures network-wide coordination, data visualization, and seamless integration into existing IT/OT infrastructure.

Built on Security-by-Design and full data ownership, GridCal enables reliable, transparent, and cost-efficient grid operations – essential as distributed generation, e-mobility, and heat pumps increase network complexity.

The GridCal solution includes real-time monitoring, automated connection checks, power flow analysis, and AI-based forecasting – all designed for lean deployment and quick results. Through the GridCal Alliance, they also offer a full-service ecosystem of technology, implementation, and support – helping DSOs scale fast, stay flexible, and gain full grid visibility from day one.

GROFTDESIGN

Groft AS' software systems help power system professionals achieve greater efficiency and reliability in the field

Groft AS – owned by REN and Norwegian utilities – develops software for power system professionals. The company's solutions help users design more efficiently, operate more reliably and plan for the future of the grid.

Grøft Design offers power cable rating calculations to correctly dimension cables, reduce failures and optimise cable utilisation. Built as an easy-to-use web application on the foundation of Comsol Multiphysics' Finite Element Analysis (FEA), it delivers more flexibility and improved accuracy over traditional analytical methods.

Netlin helps users plan and design overhead line systems for local and regional grids. It has the ability for operators to easily plan line routes, generate terrain profiles and calculate system-wide mechanical and climatic loads using FEA. Tailored to national standards, it supports seamless collaboration throughout the entire project lifecycle.

Finally, Støy offers emission allocation according to IEC 61000-3-6, -3-7 and -3-13 to manage power quality within the grid. With more power electronics connecting to the grid, Støy lets users allocate quotas proactively avoiding issues before they arise.

GRUND TECH

Grund Tech presents tailored support for long-term planning and safety for power infrastructure

Grund Tech enables a smarter, more resilient energy future through expert guidance, consulting on high-performance cable accessories, optimizing their integration for durability and connection across all voltage levels. Advisory services cover advanced grid monitoring for proactive fault detection and asset management, and integrated smart grid solutions for seamless renewables adoption.

Grund Tech's expertise includes hands-on experience in cable accessory installation, maintenance, upgrades, product configuration, engineering, and damage analysis. The company also applies a unique organizational development approach, fostering deep technical understanding. Grund Tech provides tailored strategies, ensuring your power infrastructure's long-term safety and efficiency.

BONOMI
moving energy since 1928

Gruppo Bonomi will present a smart insulator featuring advanced monitoring capabilities, alongside other components for transmission and distribution networks

Gruppo Bonomi T&D offers a comprehensive portfolio for transmission and distribution networks, including composite insulators rated up to 800kV, cut-outs, surge arresters and clamps – engineered for reliability and long-term performance in the harshest environments.

At the 2025 Cologne trade fair, the company will unveil its latest innovation: a smart insulator equipped with advanced monitoring capabilities, enabling real-time communication of status and faults to the grid operator. This product represents the company's vision of a safer, smarter, and more resilient energy infrastructure.

Gruppo Bonomi T&D has been involved in the production of composite silicone insulators since the 1950s and is driven by the decades of innovation and deep technical expertise. In the beginning, Rebosio – later acquired by Gruppo Bonomi in 2002 – stood among the first European companies to adopt Teflon as a revolutionary alternative to traditional ceramic and glass insulators. This bold step marked the beginning of a new era in electrical insulation.

In the 1980s, the industry evolved further with the standardisation of high-performance silicone rubbers – HCR (high consistency rubber) and LSR (liquid silicone rubber) – both of which undergo High Temperature Vulcanisation to achieve superior mechanical and dielectric properties. Gruppo Bonomi embraced these advances early on, reinforcing its commitment to leading-edge solutions.

HIKMICRO

Hikmicro's new AI acoustic imaging cameras are designed to find faults more easily and reduce downtime and costs for customers

Hikmicro will present innovative thermal and acoustic imaging solutions tailored for power grid maintenance and fault prevention at the Expo.

One of the products is a new AI series of acoustic imaging cameras that is designed for

WHAT TO SEE

partial discharge detection in high-voltage such as switchgear, insulators and transformers. With up to 136 MEMS microphones (0kHz to 96kHz, adjustable range MEMS sampling frequency: 192kHz), it identifies corona, particle, floating and surface discharges in real time at a distance 0.3m~150m – without shutdowns or contact – making it ideal for live substation inspections.

Hikmicro's SP and G series thermal imaging cameras offer long-range, non-contact thermal diagnostics with high IR resolution (up to 1280x1024 pixels) and intelligent diagnosis of electrical terminal faults. The cameras are also equipped with exchangeable telephoto lenses for flexible distance applications, integrated GPS and compass functions to help utility engineers detect hotspots, loose connections and insulation failures early, reducing the risk of power outages.

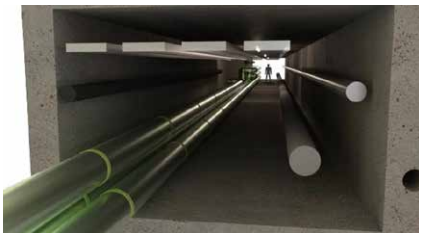
By combining acoustic and thermal imaging, Hikmicro empowers predictive maintenance strategies across the transmission and distribution network.

Hivoduct the better cable

Hivoduct's pressurised air cables are designed for medium- and high-voltage applications, are environmentally friendly and ideally suited for existing as well as new tunnels

Hivoduct develops, manufactures and installs pressurised air cables for low-loss electrical energy transmission in medium and high-voltage systems. This technology uses pressurised air as an insulating medium, along with a boltless fitting as tube connection. Unlike gas-insulated lines (GIL/GIS), pressurised air cables do not require PFAS gases such as SF_6, making them particularly environmentally friendly and safe. Pressurised air cables can replace high-voltage overhead lines, underground cables and busbars from medium to extra-high-voltage applications efficiently and sustainably.

Pressurised air cables are setting new standards in energy infrastructure for upcoming projects. In particular, they are ideally suited for use in existing tunnels in parallel with other linear infrastructures, thus eliminating or reducing the need for extensive construction work and new tunnels. This approach is particularly beneficial in urban areas, where space is limited and the installation of new overhead lines will face strong opposition. By installing the cables underground in pipes or tunnels with secured access, they are also protected from external weather influences and vandalism, which is key for critical infrastructure.



Hivoduct uses highly conductive aluminium pipes with large conductor cross-sections of up to 5,000mm². At a nominal voltage of 245kV, a single system already allows a power transmission up to 1,600MW and, compared with conventional overhead lines, losses per kilometre are up to five times lower. The product portfolio covers the complete range from medium- to high-voltage (12kV to 420kV) and all current ratings up to 5000A.

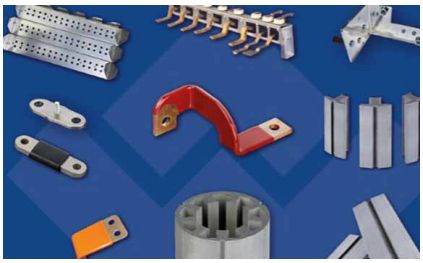
H V Wooding

H V Wooding Ltd will showcase its skills in precision-engineered busbar manufacturing and discuss the products used in the clean energy markets it services

At Power Transmission & Distribution Technology Expo 2025, H V Wooding will highlight its busbar manufacturing capabilities tailored to energy applications – from low- to high-voltage systems. H V Wooding's expertise spans copper and aluminium busbars, including powder-coated and insulated solutions, supported by in-house laser cutting, CNC punching, wire erosion and electroplating.

H V Wooding Ltd is a UK manufacturer of precision-engineered busbars, switchgear and metal components, supporting leading organisations in the energy sector. Customers include major OEMs and Tier 1s across power distribution, renewable energy and nuclear markets.

All manufacturing is carried out at the company's facility in the south of England, enabling complete control over quality, lead times and confidentiality. Whether customers are seeking rapid prototyping for new energy technologies or reliable supply for volume production, H V Wooding Ltd offers a flexible and responsive service. The company's recent collaborations include projects in solar, wind, hydrogen and grid infrastructure industries – demonstrating its ability to support innovation in the transition to cleaner energy systems.



INTEGRATED ENGINEERING SOFTWARE

Integrated Engineering Software provides advanced simulation tools that help engineers and scientists assess power flow, find faults and improve efficiency

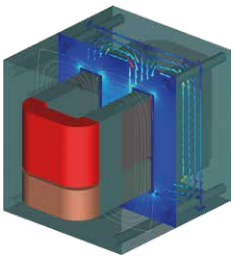
Integrated Engineering Software specialises in advanced simulation tools that serve a wide range of applications in the power industry. These include: transformer design and optimisation; power cables and busbars; high voltage equipment and insulation design; electric motors and generators; electromagnetic interference (EMI) and compatibility (EMC) and transient and steady-state analysis.

The company has been involved in the field of electromagnetic, thermal and particle trajectory simulation software since 1984. From that time, it has provided accurate solutions to countless engineers and scientists in the power transmission and distribution industry. Integrated Engineering Software provides solutions that enable its clients to design, analyse and optimise

WHAT TO SEE

electrical and electromagnetic systems with accuracy and efficiency.

The company believes it has a number of competitive advantages including an intuitive user interface, hybrid solver technology, customisation and flexibility and multiphysics capabilities.



The power transmission and distribution industry is evolving rapidly and Integrated Engineering Software remains at the forefront of technological advances. For example, it continually enhances its simulation software to address emerging challenges.

IPS® Will Present Advanced Software Solutions to Empower Utilities in Areas Including Asset Management, Grid Analytics and Operations. See them on the same Stand/Booth as Megger and SYNAPTEC.

IPS is a global leader in advanced software solutions tailored for power utilities. Specializing in asset management, grid analytics, and operational excellence, the company empowers utilities to deliver reliable, efficient, and sustainable energy. IPS® is trusted by utility providers across multiple continents, thanks to its reputation for technological innovation, deep industry expertise, and unwavering commitment to quality. Renowned for building long-term partnerships, IPS® helps clients navigate the challenges of modern energy management with forward-thinking, reliable, and precise solutions, making it the partner of choice for organizations seeking to advance their grid operations and embrace the future of energy.

JST Power Equipment will display its full product range, from substation power transformers to medium-voltage switchgear to its own BESS solutions

Grid resilience is being redefined. The rise of renewables, decentralised systems and increasing demand is placing new requirements on transformers, switchgear and battery energy storage systems (BESS). JST Power Equipment delivers solutions that respond to this challenge – with reliable, fast-to-deploy infrastructure for today's evolving power systems.

At Power Transmission & Distribution Technology Expo 2025 the company will showcase its full portfolio: substation power transformers; distribution transformers; medium-voltage switchgear and its own BESS products. Built in digitally enabled factories, JST's equipment is designed for quality, fast lead times and adaptability to utility, renewable and industrial applications.

With extended transformer delivery times now an industry standard, JST helps developers and utilities stay on schedule – offering flexible sourcing, system integration support and commissioning expertise.

Meanwhile, battery storage is moving fast, but not all systems serve the grid effectively. JST's BESS solutions aim to combine hardware with system-level thinking – delivering value to investors and stability to the grid.

KEMA Labs conducts tests of high, medium and low voltage equipment in order to prove their reliability and suitability for the transmission and distribution industries

KEMA Labs is a global provider of testing, inspection and certification services, particularly for the transmission and distribution (T&D) sector. Its labs are internationally recognised and accredited, ensuring the highest standards of quality and reliability. KEMA Labs offers comprehensive testing for high voltage (HV), medium voltage (MV), and low voltage (LV) equipment, as well as protection equipment and IEDs verifying that customer products meet all relevant standards and perform reliably under various conditions.

Inspection services, both on-site and in the lab, provide detailed reports confirming compliance with international standards. Additionally, certification services endorse the quality and safety of T&D products, helping clients gain market access and customer trust.

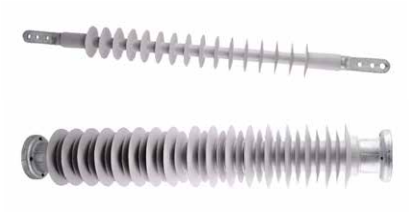
KUVAG's stand will display the company's latest products including station post insulators, long rod insulators and composite hollow core insulators

At Power Transmission & Distribution Technology Expo in Cologne, KUVAG will showcase its latest developments in products for the power transmission and distribution industry. These products include station post insulators, which are essential in substations, providing mechanical support and electrical insulation for busbars and other high-voltage equipment, ensuring safe and stable operation. KUVAG also produces long rod insulators, used on transmission lines to support and insulate overhead conductors from towers, playing a vital role in the safe delivery of electricity over long distances.

Also on show will be the company's latest

WHAT TO SEE

composite hollow core insulators, which are widely applied in transformers, circuit breakers and switchgear, offering high performance and reliability in both indoor and outdoor high-voltage environments. Finally, KUVAG's cable terminations guarantee secure and durable connections at the ends of power cables, protecting against environmental stress and ensuring uninterrupted power flow.



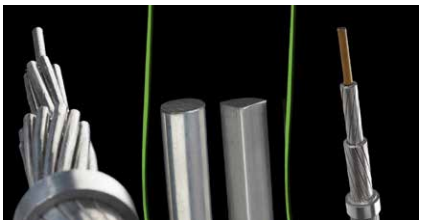
KUVAG is a leader in advanced insulation technology for the energy, mobility and industrial sectors, specialising in the design and manufacture of high-quality, custom electrical insulation solutions. KUVAG's dedicated team of around 500 employees operates from multiple international locations, delivering products that meet the highest standards for customers worldwide.

LAMIFIL

Lamifil's UHC and HTLC conductors and speciality aluminium wires help operators achieve greater reliability and performance across the grid

At the core of the global energy transition, Lamifil delivers solutions for reliable, efficient and sustainable power transmission and distribution. The company designs and manufactures high-performance overhead conductors and specialty aluminium wires for underground and undersea applications, among others. These are engineered to meet the evolving demands of modern power grids, supporting the integration of renewable energy sources and the decarbonisation of energy systems.

Lamifil's portfolio includes ultra high conductivity (UHC) and high temperature low sag (HTLS) conductors, developed using proprietary aluminium alloys. These technologies enhance grid capacity, reduce energy losses and minimise environmental impact by lowering CO_2 emissions. Whether reinforcing existing infrastructure or enabling new transmission corridors, Lamifil's conductors are built to perform under challenging conditions while ensuring long-term durability and efficiency.



By replacing aging technologies with next-generation materials, Lamifil helps grid operators worldwide to meet growing energy demands and sustainability goals. Through continuous innovation and a commitment to quality, Lamifil plays a vital role in shaping the resilient, low-carbon energy networks of tomorrow.

LAPP INSULATORS

Lapp Insulators provides bespoke designs, special applications and standardised solutions involving sustainable ceramic insulators

Lapp Insulators offers a full range of ceramic insulators, which are produced in four facilities around the world. Lapp's design applications, regardless of AC or DC, medium-, high or ultra-high voltage, are precisely adapted to existing climate, environmental and stress conditions. Solutions include ceramic longrods for overhead line business uses, post insulators for substation applications and hollow core insulators for OEMs.

After delivery of the product, Lapp provides a professional aftersales service, which takes care of any requirements, with immediate responses offered. For an assessment of old insulators or details about field simulations, type tests or seismic calculations, head to the stand at Power Transmission & Distribution Technology Expo.

Lemi Trafo Transformers

Lemi Trafo designs, tests and builds an extensive range of distribution and special type power transformers from its base in Bulgaria

Lemi Trafo is a fast-growing Bulgarian company whose main activity is the design and manufacture of distribution and special type power transformers. The company produces oil-immersed transformers (from 25 to 10,000kVA, up to 36kV) and cast resin distribution transformers (from 100 to 3,150kVA, up to 36kV).

With its production facilities situated in Pernik, Bulgaria, Lemi Trafo can achieve an annual output of around 8,000 transformers. The workflows within the company are controlled by the Integrated Management System according the requirements of ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and ISO 50001. A series of tests are performed within the company's accredited test facility to ensure the quality of its products.

LESJÖFORS Springs & Pressings

Lesjöfors uses advanced materials and advanced engineering to create bespoke or high-volume production springs and pressings

Within the energy sector – from oil and gas to renewables – springs and pressings are vital components that ensure the performance, safety and efficiency of critical systems. Lesjöfors designs and manufactures precision-engineered springs and pressings that withstand extreme pressures,

WHAT TO SEE

temperatures and corrosive environments and they have proved popular in drilling equipment, valve control, load support and renewable energy applications.

Lesjöfors combines advanced materials, expert engineering and manufacturing to deliver durable and reliable springs. The springs and pressings support evolving technologies in both traditional and renewable energy, enhancing energy production, supply and operational efficiency.

The company offers flexibility – from one-off custom springs and pressings to high-volume production – at fast turnaround times and competitive prices. Customers are supported with tailored packaging, assembly and finished goods stock solutions to help optimise supply chains. Meanwhile, the Lesjöfors toolroom manufactures single operation and full progression tooling to achieve technical solutions to customer needs. Backed by rigorous testing and quality control, Lesjöfors aims to ensure every component meets the demands of the most challenging environments.

MasterGrid AlwaysOn

MasterGrid helps to reduce SF_6 emissions with its range of sealing systems, produced with the help of 3D scanning technology

Through years of focused research and development, MasterGrid has built a portfolio of SF_6 sealing systems that are reliable and comprehensive. They are products that can save costly downtime, prevent equipment damage and, most importantly, minimise environmental impact. Using 3D scanning technology with reverse engineering skills, MasterGrid has developed tailor-made sealing solutions adapted for GIS, AIS or Dead tank technologies.

In a world where sustainability is no longer optional, but an absolute necessity, MasterGrid's mission resonates more strongly than ever. Its work in reducing SF_6 emissions directly contributes to global climate protection efforts, helping industries transition toward greener, more responsible operations.

Further than this specific SF_6 management know-how, MasterGrid can provide customers more services involved with high-voltage equipment services, power transformer services, engineering for electrical network or automation systems and protection.

MEGA WORKS TRANSFORMER

Megaworks Transformer's range of products cover transformers up to 36kV and 10,000kVA and are used in industrial, renewable and commercial projects

Megaworks Transformer specialises in the manufacture of high-performance distribution transformers. With a strong commitment to quality, reliability and customer satisfaction, the company provides tailor-made transformer solutions for energy distribution networks worldwide.

The Megaworks Transformer product range includes oil-immersed hermetically sealed and conservator-type transformers up to 36kV and 10,000kVA, designed in compliance with international standards such as IEC and ANSI. From standard utility models to fully customised units for industrial, renewable and commercial projects, the company adapts its designs to meet the specific technical and environmental requirements of each client.

Megaworks combines advanced engineering with cost-effective manufacturing to deliver energy-efficient solutions that minimise losses and maximise performance. Its transformers are rigorously tested at every stage to ensure long-lasting durability and optimum safety.

Headquartered in Turkey, Megaworks serves global markets with a growing presence in Europe, the Middle East and Africa. The company is proud to support the global transition to more reliable and sustainable power systems.

Megger

Megger offers electrical testing and measurement to a wide number of industries, with a focus on safety, efficiency and reliability of electrical systems

Megger is dedicated to providing clients with precision, reliability and safety in its electrical testing and measurement services. It is viewed as a trusted partner for professionals and organisations in need of dependable electrical testing and measurement, including monitoring solutions. The company serves an array of industries, spanning utilities, manufacturing, maintenance, renewable energy, heavy industry and more. Megger's extensive product and service offerings encompass a broad spectrum of applications, addressing critical electrical measurements. These include: insulation resistance testing; ground resistance testing; a comprehensive range of dielectric testing and advanced transformer diagnostics. Also included are DGA (Dissolved Gas Analysis), partial discharge analysis, cable fault locating and diagnostics. Megger understands that ensuring the safety, efficiency and reliability of electrical systems and infrastructure is paramount for its customers. Expertise and tailored solutions play an integral role in Megger helping to prevent electrical failures, enhance energy efficiency and ensure compliance with industry standards.

WHAT TO SEE

Mosdorfer produces power transmission and distribution systems that are reliable, bespoke and built for harsh environments in more than 100 countries

During Power Transmission & Distribution Technology Expo 2025, Mosdorfer will showcase its exhibition highlights such as its spacer damper 'Nutcracker' type, the new aerial power line marker 'Sphera' and also its special HVDC overhead transmission solutions.

Austria-based Mosdorfer offers innovative, reliable and sustainable power transmission and distribution systems solutions that have been deployed in over 100 countries and have been used in more than 1,000 successful projects around the world. Specifically, Mosdorfer engineers and manufactures string fittings and damping systems for overhead transmission lines of up to 1,200kV.

At the company's production sites, Mosdorfer delivers bespoke solutions that are built to withstand even the harshest of environments. This is achieved with the use of advanced production technology, materials, coatings, as well as rigorous mechanical and electrical testing procedures. Mosdorfer transmission string systems ensure efficient, reliable and future-ready power delivery – whether AC or DC.

MSA Safety's expertise in safety and fall protection will be demonstrated at the Expo, including its easily configurable engineered lifeline systems

MSA Safety is a leader in fall protection, bringing decades of expertise and a commitment to safety innovation in the power, transmission and distribution industry. The company's fall arrest systems are specifically designed for this sector, offering the nearest experience to free climbing by allowing full freedom of movement with both hands while maintaining continuous attachment to transmission towers. This configuration reduces fatigue, limits human error and enhances worker safety.

Built with adaptability in mind, MSA Safety's engineered lifeline systems can be configured to fit the diverse range of structures found across the transmission grid. Trusted for their easy installation, reliability, user-friendly design and proven performance, the solutions empower power and transmission professionals to work with confidence, efficiency and – above all – safety.

Navitasoft arrives at the Expo with news of its latest cyber-secure and advanced power management systems

Navitasoft, in partnership with N-SIDE, recently successfully delivered the Baltic Balancing and Capacity Management (BBCM) platform. The BBCM was a key enabler of the February 2025 disconnection from the Russian grid and subsequent synchronisation with CESA.

The BBCM is the latest in a long list of MMS (Market Management Systems) and data portals/management solutions Navitasoft has developed for TSOs across multiple European geographies since it was founded in 2008.

Navitasoft always employs the latest technology stack and microservice architectures to deliver flexible, future-proof, and cyber-secure solutions. Its Ukrenergo MMS has been operational in Ukraine since 2019 without any cyber incidents.

In addition to its TSO solutions, Navitasoft supplies market participants with ETRM and VPP product suites that integrate TSOs, exchanges and assets in fully automated end-to-end solutions to maximise market participation and profitability. Navitasoft rigorously employs the AGILE test-driven development methodology within a PRINCE2 framework, ensuring the on-time and on-budget delivery of complex business-critical software products that exactly match clients' use cases.

NECKS IMP services the rail and energy sectors with a variety of steel items including lattice towers, substation elements and yoke plates

Located in Poland, NECKS IMP is a manufacturer of steel structures and components, predominantly for the energy and railway industries. The company specialises in the production of high-quality materials for electrical transmission lines from 0.4 to 500kV, including HVDC (high voltage direct current) systems, as well as com-

WHAT TO SEE

ponents for railway electric traction systems.

Within the company's portfolio are a wide range of products including: lattice towers; gantries; substation elements; wedge clamps; anchor bolts; tensioners; crossarms; arcing horns; H-links; yoke plates and many more.

NECKS IMP also fabricates elements based on the bespoke technical specification provided by the client and has the ability to respond effectively to changing needs and rapidly evolving projects. The NECKS IMP production site is equipped with all necessary equipment to manufacture complex steel constructions up to 16m in one single piece.

To meet customer's requirements, NECKS IMP products can be galvanised and/or painted to specification. The company operates according to EN1090, EN3834 and EN 15804 standards and it holds certificates such as ISO 9001, ISO 14001 and ISO 45001. The company employs approximately 100 people and can send its products almost anywhere in Europe and, should the situation arise, further afield.

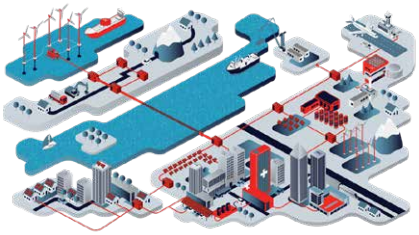
Nexans
ELECTRIFY THE FUTURE

Engineering the Unbreakable Grid — See Nexans Grid Reliability Portfolio and Technologies And Systems for Resilience at Scale

Congestion of power grids, mainly composed of In the race to net zero, building more renewable capacity is not enough — the true challenge lies in delivering every kilowatt with absolute reliability, efficiency, and sustainability. As a global pure player in electrification, Nexans has created the Grid Reliability Portfolio, an integrated, vendor-neutral ecosystem that safeguards the electricity network from factory floor to control room.

By combining our own innovations with world-class partners, we offer utilities a complete reliability framework:

- **ULTRACKER™** – Real-time cable and drum traceability to cut losses, reduce working capital, and ensure just-in-time delivery.
- **Infracheck™** – AI-powered installation assurance, lowering premature joint failures by up to 80%.
- **Smart Cable Guard** (with **DNV**) – 24/7 MV cable health monitoring to pinpoint and prevent faults before outages occur.
- **SynchroGuard** (with **Zaphiro Technologies**) – Real-time grid observability and automation for faster fault localization and renewable integration.



- **Adaptix.Grid** (with **Sensewaves**) – Predictive analytics for asset risk modeling and optimized investment planning.

With proven deployments worldwide, Nexans empowers operators to build grids that are resilient at scale, efficient in operation, and sustainable at heart — ensuring power flows where it's needed, when it's needed.

NKT

Visit NKT to see Low, Medium and High Voltage Power Cabling Solutions for up to 525 kV DC and 550 kV AC.

NKT connects a greener world with high-quality power cable technology and takes centre-stage as the world moves towards green energy. NKT designs, manufactures and installs low-, medium- and high-voltage power cable solutions enabling transmission of renewable energy. Since 1891, NKT has innovated the power cable technology building the infrastructure for the first light bulbs to the megawatts created by renewable energy today. NKT is headquartered in Denmark and employs 6,000 people. One of the NKT high voltage cable factories are located in Cologne, supporting the clean energy transition of Germany.

Please visit our stand to learn more about our complete cable system solutions for up to 525 kV DC and 550 kV AC.

NKT - We connect a greener world.

NODES

NODES helps system operators establish local flexible markets, using a technology platform that is used across Europe and Canada

NODES is at the forefront of the energy transition, pioneering innovative solutions for a more sustainable and resilient electricity system. The company's market design and technology unlock the value of flexibility in power networks, enabling a more secure and efficient grid for the future.

NODES provides the means for system operators to establish local flexibility markets, and thus provide a clear route to market for distributed energy resources (DERs), to provide support services enabling grid operators to procure flexibility in a market-based, transparent manner.

The NODES platform supports a wide range of functions including flexibility reservation and activation, coordination between system operators and complete validation and settlement services. Solutions are currently in use across Norway, Sweden, Finland, Belgium and Canada.

WHAT TO SEE

NovaTech AUTOMATION

NovaTech Automation's Orion suite supports all applications of substation automation, while its SCADA technologies are cost-effective solutions to a range of issues

NovaTech Automation delivers data integration between electric utility substations, enterprise SCADA, and grid edge devices. The company's RTU data gateways, power meters, network switches and satellite clocks are engineered for precision, reliability and ease-of-use.

NovaTech Automation solutions leverage open tools and standards to maximise investments in automation. The company can take care of the design, build and deployment of packaged solutions from cabinets to panels to custom and pole-top enclosures. The technologies help to modernise a grid and enable it to operate at peak efficiency.

The Orion family supports all substation automation applications – RTU, HMI, math and logic, tile annunciation, SOE recording, FLISR and more – in a rugged platform that can be redundant.

NovaTech SCADA systems offer a range of cost-effective solutions from simple reporting and notification HMIs, to more complex functions such as ADMS, FLISR and DERMS – all with no annual fee.

NovaTech is a proud member of the vPAC Alliance. Its OrionVX integrates all of the Orion processes – math and logic, alarming, HMI, protocols, etc – to run in a virtual machine on a standard industrial server or embedded within partner products.

nuventura

Nuventura's aim is to improve the environment with its gas insulated switchgear – and help the industry's shift away from SF_6

Nuventura is a Berlin-based company focused on developing sustainable medium voltage (MV) gas insulated switchgear (GIS). Its primary innovation is nu1, a primary (1250A/2200A) MV (24kV and 36kV) GIS, which eliminates the need for SF_6, the world's strongest greenhouse gas traditionally used in electrical insulation.

By replacing SF_6 with dry air, Nuventura's technology reduces environmental impact and it protects against tightening global regulations targeting SF_6 while maintaining high performance and safety.

obsta

OBSTA to show long-life obstruction markers for overhead conductors, cables and towers for aviation safety

For high-voltage cables, OBSTA will present its new induction-powered red obstruction light; compact, lightweight, and easy to install. This night marker can be complemented by OBSTA's warning spheres, available in either polyethylene or aluminium, for daytime marking. All markers are maintenance-free.

For towers supporting cables, OBSTA's solar-powered red (night only) or dual-colour (white flashing for day, red for night) obstruction lighting systems allow for easy maintenance of the entire system (batteries, regulator, lights) installed on the tower.

All OBSTA obstruction lights are now compatible with Night Vision Goggles, which are increasingly used by pilots, in compliance with aviation authorities such as the FAA, MOD, OFAC, and many more.

ORION ee

ORION EE will present its innovative F-sense Fault Passage Indicators for Detecting Phase and Earth Faults Plus Many More Fault Detection and Alarm Systems.

Driven by the motto 'Engineering First, Energizing Progress', ORION EE designs and manufactures all its products in-house to ensure maximum reliability and quality. F-sense is a robust, easy-to-use FPI for medium-voltage distribution systems up to 36 kV. Using four external current sensors, it accurately detects both phase and earth faults at 50/60 Hz, enabling operators to quickly locate faults and restore power faster.

WHAT TO SEE

In addition to Fault Passage Indicators, ORION EE will showcase a broad product range that supports modern energy networks: Capacitive Voltage Indicators & Phase Comparators, Temperature & Humidity Controllers, Alarm Annunciators, Ferroresonance Solutions, Redundant Fan Controllers, and Voltage Amplifiers.

Visitors will experience how ORION EE's engineering-driven approach strengthens grid stability and efficiency, offering reliable, future-ready solutions for utilities and industrial applications worldwide.

POWERSIDE®

Powerside presents the latest hardware and secure software solutions for bringing actionable Power Quality Data to the edge of Your Grid.

Powerside has a legacy of over 75 years in Power Quality Solutions for detecting and correcting the most demanding Electrical environments. Aside having the best high-resolution Class A Power Quality Analyzer hardware in the market, our company has gone further to develop and acquire analytic software solutions that elevate your data, and to provide powerful pro-active insights into your Power Distribution system. Whether you seek a powerful secure collaborative cloud-based platform capable of custom trending and customer defined analysis in QubeScan; or an analyzer agnostic – on premise – solutions software pulling data from disparate legacy meters and analyzers; Powerside has the solution.

PPC INSULATORS

PPC Insulators uses porcelain in its substation and overhead line products to improve the safety and stability of power supplies, even under extreme conditions

PPC Insulators is a supplier of electrical porcelain insulators for substation, overhead line and precipitator applications, specialising in insulator designs up to 1,200kV AC and 1,100kV DC. The company's main aim is to help utilities, contractors and OEMs build and maintain high-capacity, stable electrical grids.

PPC Insulators' extensive knowledge, expertise and technology enables the company to produce the best insulator designs and deliver them all over the world. The proven strength and longevity of the porcelain insulators make these components a safe and reliable solution for demanding environmental conditions.

Compared with other types of insulators, porcelain insulators are ideal for a safe and stable power supply without power failure with low operating costs.

Under polluted conditions, insulators can be subjected to extreme electrical field stress causing tracking and erosion. Porcelain insulators will only show minor surface marks but maintain 100% mechanical strength.

All components of porcelain insulators are fully recyclable throughout their lifecycle, so they leave a lower carbon footprint. Once properly installed, PPC Insulators' porcelain insulators retain reliability for decades.

prisma photonics

Prisma Photonics' measurement and monitoring solutions enable real-time analysis to improve resilience and to assess issues in the most time-efficient ways

Prisma Photonics offers a groundbreaking approach to monitoring thousands of miles of power lines – leveraging existing optical fibre infrastructure, with no need for sensors on lines or towers. Real-time monitoring enhances grid resiliency against wildfires, icing, strong winds, electrical faults and physical tampering. This approach improves service reliability, grid safety and the ability to respond to threats from extreme climate events.

Dynamic Line Rating (DLR) is also enabled by measuring wind conditions along each power line span. The system identifies the least-cooled critical span and adjusts capacity in real-time, safely increasing grid throughput without additional hardware.

The technology is deployed through a simple substation-based installation that connects to existing optical fibre, eliminating the need for field installations or ongoing maintenance. Every span is continuously monitored, making the solution highly scalable across entire power grids.

WHAT TO SEE

PSE Innowacje Presents Their Virtual Reality module for training substation employees

At Power Transmission & Distribution Technology Expo 2025, PSE Innowacje will showcase its virtual reality module for substation modelling, which is engineered to train electrical substation employees in connection activities and familiarise them with the structure and operation of real objects and devices.

The virtual walk includes overhead switching stations, gas-insulated switchgear, control rooms and technological buildings. The VR module is integrated with a dispatching training simulator and replicas of real dispatching applications, which makes each switching operation affect the power flow in the entire continental Europe synchronous area.

The core activity of PSE Innowacje is providing services to the transmission system operator – PSE – in the areas of analysis, research, innovative technologies and IT solutions. The company is particularly engaged in the development and implementation of IT systems, the execution of research and development projects, the conduct of ongoing analyses and studies and the organisation of training sessions for operational and maintenance personnel.

RADOS AG is a waste management company with a specialism in handling and recycling hazardous materials

RADOS AG is a specialist for the disassembly, decommissioning and recycling of hazardous waste from the energy industry. Certified as a waste management company under the applicable laws, RADOS AG operates its own waste treatment facilities that are certified under the Federal Immission Control Act. All typical material and electrical equipment that contains oil or SF6 gas is disassembled and fully recycled at RADOS facilities.

Ritz Instrument Transformers will provide Expo visitors with details of its production range, which includes instrument transformers and bushings

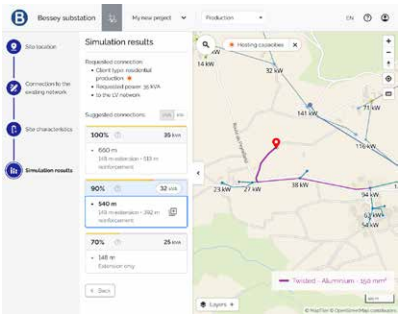
Ritz Instrument Transformers is an international company based in Hamburg, Germany and a leading manufacturer of instrument transformers and solid insulated busbar systems. The company assists customers by providing them with bespoke, comprehensive, value-added solutions and a professional service.

Ritz Instrument Transformers has manufacturing facilities in five countries around the world – Germany, Austria, Hungary, China and the USA – producing a wide range of products including instrument transformers, current transformers, busbar systems, bushings and specific cast resin components.

Roseau to demonstrate innovative web based grid connection

Roseau Technologies is proud to present Berenis, its innovative web-based solution designed to revolutionize the way Medium and Low Voltage grid connections are managed.

Berenis is a game-changer for Distribution System Operators (DSOs), providing an intuitive and powerful platform that significantly streamlines the grid connection process.



Berenis offers a complete solution, including the seamless integration of your network data. It enhances collaboration, reduces processing times, and ensures optimal network planning, empowering DSOs to efficiently handle the increasing volume of connection requests, improving communication with project developers and optimizing grid investments.

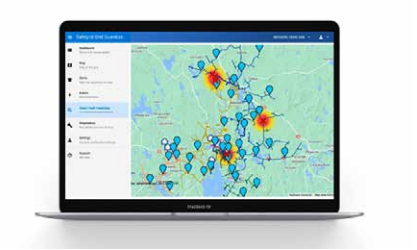
Safegrid's Intelligent Grid System aims to optimise grid operations and reduce downtime by pinpointing exact fault locations in seconds

Safegrid provides a comprehensive solution to locate, predict and prevent grid faults. By streamlining fault monitoring and management, the

WHAT TO SEE

company aims to move utility operations from reactive to proactive grid management.

The Safegrid Intelligent Grid System is designed to optimise grid operations, reduce downtime and enhance safety. It operates seamlessly across medium- and high-voltage grids, ensuring comprehensive coverage for diverse power networks. The system pinpoints exact fault locations in seconds and also predicts potential issues before they happen. The scalable solution incorporates instant-on wireless sensors with an advanced analytics system, resulting in reliability, safety and performance. By providing a clear, real-time view of the entire network, Safegrid's Intelligent Grid System enables users to make more informed decisions and, ultimately, improves grid operations.



Meanwhile, Safegrid's Grayfox sensor family is designed for underground cable grids – and the Grayhawk sensor family is built for overhead lines. At the heart of the system is GridGuardian, which gathers and analyses data from these sensors and other sources to provide real-time insights. Beyond locating, predicting and preventing faults, it also integrates data on factors like weather impact and equipment health, helping utilities make smarter, data-driven decisions.

SATEC

Satec will present advanced solutions including SCADA-compatible meters for AC and DC to enhance grid reliability, efficiency and operational visibility

Satec Ltd. is a leader in power metering, power quality analysis and energy management. Since 1987, the company has delivered advanced solutions that enhance grid reliability, efficiency and operational visibility for transmission and distribution grids. Satec's portfolio includes SCADA-compatible meters for AC and DC, Class A/S power quality analysers, phasor measurement units (PMUs), and fault recorders. Satec power meters support key utility protocols such as IEC61850 ed.2, DNP and IEC60870-5-104, enabling them to be integrated with utility SCADA systems.

SEDIVER

Sediver will showcase leading toughened glass insulators with a proven best-in-class shattering rate and very high mechanical resistance to improve line availability

As we move into the future, electricity continues to emerge as the energy source capable of responding to two major global challenges: growing demand for energy and the urgent need to reduce greenhouse gas emissions. In this context, Sediver stands out as a key partner for electric utilities and grid infrastructure contractors.

Sediver has established itself as a leader in insulation technology, serving utilities and contractors worldwide. Its knowledge and on-the-ground experience makes it the most experienced partner for challenging AC and DC projects up to 1,000kV. Sediver's commitment to innovation is evident through its recurring investments in R&D and laboratories that optimise and validate insulation performance.

One of Sediver's key strengths is its range of solutions to improve line availability. The company's track record confirms the quality of its products, with more than 600 million toughened glass insulators in service, on both AC and DC lines. The toughened glass insulators are robust, with a proven best-in-class shattering rate, very high mechanical resistance and can cope with harsh environments. Meanwhile, the Sedicoat range of coated insulators can withstand all kinds of environmental stress.

Innovation is at the heart of Sediver's operations. The company's extra high voltage laboratory and broad spectrum of research nd development activities ensure that it is always discovering innovative materials and technologies.

sees.ai

sees.ai will present autonomous, remotely operated drones that help operators move from reactive failure management to strategic, data-driven planning and maintenance

The electricity grid is under mounting pressure. Originally built decades ago, it's now facing surging demands driven by AI, EVs and the energy transition. In this environment, partial visibility is no longer tolerable – every unseen fault represents a risk to national security, economic growth, and system stability.

But sees.ai closes this visibility gap. It delivers high-resolution, component-level data at network scale using autonomous, remotely-operated drones that fly in close proximity to live infrastructure. The company's solution enables grid operators to move from reactive failure management to strategic, data-driven planning and maintenance – supporting safer, more resilient and cost-efficient networks.

sees.ai is trusted by National Grid and regulators. We've achieved world-leading regulatory permissions for beyond-visual-line-of-sight (BVLOS) flight and developed proprietary collision avoidance tech that enables safe operations within 2m of live assets.

As investment in grid infrastructure accelerates, the quality and scale of data will define success. sees.ai is building the intelligence layer for the next-generation energy system – one that is reliable, efficient and future-ready.

WHAT TO SEE

SF6 will be at the show to discuss its full-scale regeneration plant that regenerates SF_6, even at higher contamination levels and its range of services

The mission of SF6 Recycling GmbH is to substantially reduce emissions, caused by the production and use of SF_6 gas. Although massive progress has been made to substitute SF_6 gas in electrical grids, the gas is still required for a variety of applications – and will be as long as existing installations are in operation. The EU directive VO (EU) 2024/573 requires users of SF_6 to use alternative gases and to switch to regenerated SF_6. SF6 Recycling GmbH provides all services around the use of SF_6 and the disassembly of existing equipment. These services include regeneration of used SF_6 gas in a full-scale regeneration plant that regenerates SF_6 gas, even with high contamination levels to a quality that exceeds the technical norm ICE 60376. After regeneration, it has a purity of up to 99,995% SF_6 and can be used in lieu of new gas.

The company is also a full service provider for the collection of used SF_6, offering a just-in-time delivery service for regenerated gas. SF6 Recycling GmbH also provides collection, recycling and regeneration services of used SF_6 bottle and tank management and recertification – and also recycles equipment such as medium voltage switchgear, high voltage switchgear, GIS and GIL.

SGC Switchgear Company latest DR-2 and DN-2 Switchgear boosts the future of medium voltage

Discover how SGC Switchgear boosts the future of medium voltage! As a specialist in medium voltage switchgear, SGC Switchgear stands for safety, sustainability, reliability and quality. On Stand 17010.C, they'll present the DR-2 and DN-2 Switchgear, innovative solutions designed for maximum performance and minimal maintenance.

Their expert team is ready to answer all your questions about energy distribution and smart grid integration. Experience firsthand how their products contribute to a more efficient, secure, and future-proof power grid… and help build the grid of tomorrow, together.

SH Power a complete offer for any grid needs. Whole range of OHTL fittings, line and post composite insulators, distribution transformers (amorphous, oil and dry) and switchgears

SHUANGHUI Group is one of the main suppliers to SGCC – State Grid of China for OHTL fittings and composite insulators, as well as for substation equipment, with unquestionable technical leadership achieved in 30 years of manufacturing. After expanding successfully across Asia and in Middle East, SHUANGHUI Group introduces its range suitable for both AC and DC UHV lines in Europe. SHUANGHUI Group manufactures also Switchgear, and Distribution Transformers (oil and dry) in a brand new, fully automated 4.0 factory. A factory for Power Transformer is being built, and will be opened in the last quarter of 2025. SHUANGHUI Group: your technically advanced, reliable fast one-stop-shop for utilities, OEMs, EPCs needs for the 21st century and beyond.

Siemens Energy leads the way in distribution transformers, delivering reliable and efficient energy across evolving grid landscapes. Review and Discuss their Portfolio at the show

Our portfolio of advanced dry-type and fluid-immersed distribution transformers - including cutting-edge OLTC (On-Load Tap Changer) distribution units - ensures reliable power supply, optimal voltage regulation and grid stability, even under dynamic load conditions.

Our distribution transformers are designed to:

- High efficiency through low-loss designs and optimized power delivery
- Stable voltage regulation and protection against overloads
- Seamless integration into urban, industrial, and renewable energy systems
- Sustainable operation with eco-friendly insulation and biodegradable fluids

Siemens Energy Distribution Transformers stand out for their proven performance in efficiency, reliability, and safety - qualities that define every solution we deliver. Sustainability is embedded into every design, reflecting our commitment to minimizing environmental impact across the product lifecycle. With a global manufacturing footprint, we ensure fast delivery and local support, bringing our expertise closer to customers wherever they operate.

Siemens Energy is powering the energy transition - delivering distribution transformer solutions that are ready for tomorrow's grid.

WHAT TO SEE

SKYPOWERLINES
Innovative & Efficient Aerial Solutions

Sky Powerlines' drones carry four sensors to enable new aerial photogrammetry technology and automated processing of data on vegetation analysis

Sky Powerlines specialises in drone technology and uses AI to replace helicopters and current drones to reduce the costs of detailed inspection of T&D lines, offering accurate analysis of the distance between vegetation and power lines. The company does this with 100% automated flights. Scalable service drones are user-friendly and do not require a special license to operate them, so Sky Powerlines lends the drones to customers or drone operators to collect data, before it processes the reports.

Sky Powerlines offers a cost-effective service by using innovations in image and data collection and report processing. In data collection, the company replaces LiDAR with new aerial photogrammetry technology, a 200MP RGB camera, a high-resolution thermal camera and corona detector, ensuring there are four sensors on the same drone. It also develops software to generate customised flight plans. In report processing, Sky Powerlines has developed a point cloud segmentation technique using AI with an accuracy rate above 96%. With this technology, it is able to automate the processing of the vegetation analysis report. Using a 200MP camera and wide lens, Sky Powerlines covers the entire tower in detail with just 24 photos, enabling inspection by humans or via AI.

SUMITOMO ELECTRIC
Connect with Innovation

Sumitomo Electric Industries will be showcasing its overhead conductors and cables, plus the SEI portfolio of monitoring systems for cable and tunnel systems

Sumitomo Electric Industries (SEI) offers technologies for energy transmission (overhead conductors and cables) as well as monitoring systems powered by sensors, digital technology and AI. For overhead lines, SEI offers high temperature low sag (HTLS) conductors for higher operating temperatures with low sag. For existing overhead lines, the transmission capacity of existing overhead line systems can be optimally increased by applying dynamic line monitoring (DLR).

Technologies from SEI for DLR, such as a DLR sensor, weather sensor and integrator, contribute to the up-rating of the allowable transmission capacity by analysing conductor temperature, transmission current, wind speed, ambient temperature and solar radiation.

SEI presents a portfolio of monitoring systems for cable systems and tunnel systems. These systems are used to reliably evaluate the relevant operating states (inner conductor temperature, operating current, etc.) that enable optimal system operation. With the monitoring system, accidents can be avoided and the efficiency of maintenance can be increased. In addition to the conventional method of data communication (optical and wireless), SEI also offers a specialised method for powerline communication (PLC). Especially for cable systems, SEI offers a wide portfolio of monitoring solutions for partial discharge detection, as well as a variety of detection systems based on optical measurement methods.

synaptec
powered by Megger

SYNAPTEC Will Be Presenting 'Distributed Electrical Sensing (DES)' High Fidelity Measurements System of Voltage and Current Capable Over up to 60Kms from Substations at Many Different Locations – Find Them Sharing the Booth/Stand With Megger

We will present Distributed Electrical Sensing (DES) on the stand.

DES is a precision measurement technology that allows power system operators to protect and monitor their networks with unprecedented flexibility. Using the optical fibre within power networks, DES makes high-fidelity measurements of voltage and current at many locations over distances of up to 60 km from a substation.

The entire sensor array is completely passive, meaning no control power or auxiliary equipment is needed at sensing locations. Synchronised waveform data from all sensing locations is available at the speed of light, enabling a wide range of protection, control, and monitoring functions to improve reliability and security, reduce unplanned maintenance, and significantly reduce operational cost.

synecom S.R.L.

Synecom is committed to helping the energy industry move to a more sustainable future, with specific solutions for SF_6 gas management

Synecom is supporting the transition to a circular and low-emission model by the development of three distinct and patented solutions to actively contribute to a new age of SF_6 sustainability, each targeting specific environmental and operational challenges:

- **SF_6 Regeneration:** An industrial zero-emission process that restores highly decomposed or contaminated SF_6 to ≥99.99% purity, eliminating the need to purchase new gas or dispose

WHAT TO SEE

of old.

- **SF_6 Recycling:** A mobile on-site solution that treats SF_6 slightly affected by moisture or acids via variable-capacity filters, enabling direct reuse and extending equipment life.
- **Monitoring & Data Collection:** A modular system that monitors and analyses dew point, temperature, and pressure to detect anomalies, predict faults, and reduce emissions. It supports real-time remote monitoring and preventive maintenance.

Founded in 2005, the same year the Kyoto Protocol came into force, Synecom has a clear mission: to develop sustainable, future-proof solutions for SF_6 gas management.

High-quality components and products for high and low voltages on show from The H-J Family of Companies

Recognized as a global leader in manufacturing and supplying solutions for the heavy electrical sector, The H-J Family of Companies has built a strong reputation for excellence. Its portfolio includes single and three phase pad-mounted transformers; low voltage and high voltage bushings as well as epoxy variants; electrical system protections such as expulsion and current limiting fuses, along with bay-o-net fuse holders; de-energized tap changers and switches; terminals and connectors; hardware and raw material solutions; and more.

With this portfolio, H-J is committed to delivering high-performance solutions that meet the unique demands of each business and industry. With advanced engineering, a fully equipped test lab, and dedicated customer service teams, H-J has got you covered for your electrical industry needs.

TMC Transformers presents its dry-type transformer technology, designed for safety, reliability and efficiency

TMC Transformers' focus is on cast resin transformers, which are ideal for demanding environments where fire safety, minimal maintenance and energy efficiency are essential.

Unlike oil-filled units, dry-type transformers are air-cooled, non-flammable and environmentally friendly. They are also easy to install indoors or in compact spaces and require minimal maintenance over time.

Over the years, TMC has challenged the dry type transformers market by making them suitable for outdoor installation. Mounted in special enclosures rated from IP21 to IP56, ensuring robust protection against dust and water ingress, TMC products guarantee optimal performance in harsh environments, including those with high pollution, humidity and corrosive elements.

Because the enclosures can limit the natural airflow needed for cooling, TMC has developed innovative cooling options as AFAF (Air Forced Air Forced) and AFWF (Air Forced Water Forced) heat exchangers to control temperature and improve efficiency, making our products perfect for outdoor settings.

The Trench Group will be displaying instrument transformers for AIS and GIS, air core reactors for both AC and DC applications and transformer and substation bushings

The Trench Group is a leader in power engineering and the design of specialised high voltage electrical products, serving customers in the utility and industrial markets. The company's product portfolio includes instrument transformers, bushings and coil products.

The Trench Group offer a broad product range as well as solutions covering various applications and voltage levels in order to meet customer expectations. Trench products are installed in every corner of the world and have proven their reliability over decades.

The portfolio includes instrument transformers for AIS and GIS, up to 800kV. Various insulation technologies are used, such as clean air, conventional gas and both eco-friendly and conventional fluids.

In the coil products range, The Trench Group portfolio includes air core reactors for both AC and DC applications, up to 800kV. It also features an earth fault protection system that comprises arc suppression coils and associated electronics.

Finally, The Trench Group markets transformer and substation bushings for both AC and DC applications, up to 1200kV. Like the transformers, various insulation technologies are adopted, such as RIS, RIP, and both eco-friendly and conventional fluids.

High-quality surge arresters with Flexible Solutions from Tridelta for substations and railway infrastructure

Tridelta Meidensha GmbH will showcase its high-quality surge arresters for substations and railway infrastructure. As the only company in Germany specializing exclusively in surge

WHAT TO SEE

arresters, Tridelta Meidensha offers Standard and tailored solutions for high-voltage networks AC or DC worldwide

.The company develops and manufactures its products entirely in Germany – combining engineering precision with proven materials and international certification. At the Expo, visitors will discover Tridelta Meidensha's portfolio of hollow core and directly molded surge arresters, designed for extreme environmental conditions and long service life.

Whether for transmission substations or traction power systems, the arresters provide exceptional energy absorption, mechanical strength and operational reliability. Backed by decades of experience and close customer cooperation, the company offers flexible solutions to match specific grid requirements.

With strong roots in Germany and Japan, Tridelta Meidensha stands for innovation, certified protection and long-term durability in surge protection technology.

TSAT AS's communication platform is designed for transmission and distribution SCADA and other applications – and features high levels of privacy

TSAT AS will present the TSAT 3500 narrowband satellite communications platform featuring an on-prem satellite gateway for a totally private network implementation with no connection to public telecom networks or the internet.

TSAT 3500 is used for mission critical power transmission and distribution SCADA and other related OT applications. The platform features an on-prem satellite gateway for a totally private network implementation with no connection to public telecom networks or the internet.

The platform is frequently selected to provide critical backup of existing terrestrial communications solutions that may fail under extreme weather conditions or due to external tampering.

The TSAT 3500 features secure communications and implements cybersecurity features including AES-256 satellite link encryption. Due to an efficient communications protocol implementation – and efficient used of dedicated satellite spectrum – the recurring operating cost is kept as low as possible.

The TSAT 3500 satellite gateway/hub is compact and occupies only 1U of rack space. There are no cooling fans for long-term durability. The TSAT 3500 Outdoor remote is IP67 rated and provides connectivity for IP/Ethernet or legacy serial devices (RS-232,422 and 485) without the need for external mediation devices.

UViRCO Technologies brings ultraviolet (UV) imaging technology upgrades, its latest diagnostic solutions and a brand new product to the Expo

South Africa-based UViRCO Technologies (Pty) Ltd is proud to participate in the first-ever Power Transmission & Distribution Technology Expo, where it will showcase upgrades to its flagship technologies. In addition, UViRCO Technologies will unveil a product it believes will transform the way utilities conduct electrical inspections and fault analysis.

Attendees will experience the renowned CoroCAM UVS, a high-performance UV imaging system recognised for its precision in detecting corona and arcing on high-voltage equipment. Built for accuracy, ease of use and rugged field performance, the system continues to play a vital role in helping utilities reduce unplanned outages and improve grid stability.

UViRCO will also present the newly enhanced CoroVMI, now equipped with superior optics, advanced analysis capabilities and improved environmental durability. These upgrades enhance performance across visual, thermal and UV inspection workflows, providing operators with clearer insights and improved operational efficiency.

The UViRCO stand will also feature the unveiling of an entirely new diagnostic solution. This innovation provides field engineers with deeper fault interpretation, enabling more accurate, timely maintenance interventions.

Verenfabriek De Spiraal is keen to discuss future possibilities and share its expertise about industrial springs and wireforms with show visitors

Verenfabriek De Spiraal markets a wide range of springs and wireforms being applied in power transmission and distribution industry. These will be on show at Power Transmission & Distribution Technology Expo 2025, potentially helping customers with solutions for their businesses.

Commonly used products in this industry include compression springs, torsion springs, extension springs and leaf springs. All of these are designed to meet the demanding requirements of the power transmission and distribution sector.

Compression springs are ideal for absorbing shocks and maintaining tension in electrical switchgear and circuit breakers, ensuring consistent performance under varying load conditions. Meanwhile, torsion springs provide precise rotational force, making them suitable for applications in control mechanisms and power distribution equipment.

Extension springs deliver reliable tension and flexibility, commonly used in safety latches and control panels to ensure secure operation. Finally, leaf springs offer durability and resistance to heavy loads, making them a perfect fit for grounding systems and vibration control in

WHAT TO SEE

high-voltage environments.

By combining industry-specific expertise with tailored spring solutions, De Spiraal supports enhanced performance, longevity, and reliability in critical power transmission and distribution applications.

VGT demonstrates its platform technology that helps customers balance grid stability and manage consumption and storage levels in real time

The transformation of the energy infrastructure requires a dynamic interplay of various flexibility mechanisms to balance grid stability, economic efficiency and regulatory requirements. Only through the coordinated control of generation, consumption and storage in real time can grid stability, economic efficiency and regulatory requirements be combined.

The VGT Platform serves as the backbone of this strategy, providing precise control over decentralised generation, consumption units and storage systems to optimise the use of flexibility. The VGT Device Manager connects these units in real time, analyses consumption and feed-in profiles – and adapts their use to current market conditions. In this way, flexibility is always used where it brings the greatest technical and economic benefits and grid bottlenecks are avoided.

Thanks to deep integration into IT systems such as ERP, MDM and EDM – as well as direct connection to grid operators and markets – the platform automates the entire energy management process. Decisions are made based on current data and in real time.

Utilising flexibility requires a strategy that goes beyond isolated solutions. The key is a comprehensive system that links existing potential, recognises market opportunities and reacts to grid requirements in real time. Those who implement this integrated control approach at an early stage not only ensure grid stability and security of supply, but also gain considerable economic advantages.

Vielhauer GmbH offers reliable and safe transformer operation through the use of non-flammable, biodegradable and climate-friendly ester fluids

Vielhauer GmbH specialises in the supply and technical servicing of transformer fluids based on synthetic and natural esters. The company will showcase its full range of services surrounding MIDEL 7131 and MIDEL eN 1204, with a clear focus on availability, consulting and practical implementation.

From its central warehouse in Leverkusen, Germany, Vielhauer GmbH supplies customers quickly and flexibly – including express and weekend delivery options on request. It also offers custom filling into client-specific package sizes for their individual needs.

Vielhauer GmbH also provides technical services such as retrofilling, oil changes, vacuum drying and transformer oil analysis. With its in-house lab, the company ensures fast evaluations and well-founded recommendations for grid operators, transformer manufacturers and end-users.

Vielhauer GmbH is committed to reliable and safe transformer operation through the use of ester fluids that are non-flammable, biodegradable and climate-friendly.

Westermo and Welotec to combine forces and show energy systems solutions – including substation automation and edge computing – on one stand

Westermo provides a full range of industrial data communication solutions for demanding applications in the energy, transport and water sectors. Pushing the boundaries of what is technically possible, Westermo has a local presence in more than 40 countries to provide the best possible support.

Meanwhile, Welotec powers the energy transition with rugged, IEC 61850-3 certified servers and controllers. Enabling virtualisation, it ensures secure, reliable substation automation in harsh environments. For more than 50 years, Welotec's team in Germany is dedicated to making its clients' lives "a byte smarter".

The two companies will showcase solutions for energy systems together – including private cellular communications, substation automation, edge computing and much more.

Zaphiro Technologies' innovative software is built on advanced synchrophasor technology that enables real-time control and automation of smart grids

Zaphiro Technologies is transforming how utilities monitor and manage power distribution. Its innovative software – built on advanced synchrophasor technology – enables real-time control and automation of smart grids with unmatched precision.

By collecting high-resolution data from across the grid and analysing it in real time, Zaphiro's solution helps utilities detect and locate faults instantly, reduce outage durations, plan preventive maintenance activities and improve overall grid resilience. Unlike traditional systems, it does not require expensive infrastructure upgrades, making it a cost-effective and scalable solution for diverse network environments.

Zaphiro's software gives operators real-time visibility and predictive insights based on AI and machine learning, empowering faster and better decision-making. This improves grid efficiency and enables the seamless integration of renewable energy sources and electric vehicles.

The platform supports utilities in meeting today's energy challenges, such as increasing demand, decentralisation and the shift to clean energy. With improved fault detection, voltage control and situational awareness, Zaphiro makes power grids smarter, greener, and more reliable.

Zaphiro's mission is to enable digital, resilient and sustainable electricity networks worldwide. As energy systems evolve, its software stands out as a key enabler of the transition to a more efficient, low-carbon energy future.

Power Transmission & Distribution Technology EXPO

SPEAKERS (Listed by company represented)

Headline Speakers From TSOs, DSOs, Investment Companies & Other Key Organisations

Rolands Irklis
Chairman of the Board
AST Latvia

Thomas Fureder
Managing Director
Barclays Investment Bank

Paolo Fuccella
Account Executive/Utility Vertical Lead
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