

Kyte Powertech

Distribution Transformers

Transforming the world of energy, every day





Engineered in Ireland. Trusted across energy networks.

For 50 years, Kyte Powertech has designed and manufactured oil-filled distribution transformers from our facility in Cavan, Ireland.

Serving customers across utilities, renewables, industry and infrastructure, we combine in-house engineering, controlled manufacturing and certified testing to deliver reliable transformer solutions for critical power distribution.

As part of R&S Group, we bring together local expertise and wider European capability to support the evolving demands of the energy sector.



Why Kyte Powertech

Kyte Powertech combines 50 years of transformer expertise with Irish manufacturing, in-house engineering and end-to-end production control.

From our 17,500 sqm manufacturing facility in Cavan, Ireland, we design, manufacture and test oil-filled distribution transformers for customers across utilities, renewables, industry and infrastructure.

Our strength lies in the control we maintain across the full process. With in-house design engineers, metal fabrication, transformer assembly, testing, project management and logistics support, we give customers confidence at every stage, from initial specification through to final delivery.

As part of R&S Group, Kyte Powertech also benefits from wider European capability, complementary technical expertise and an expanded power products network, while continuing to deliver from our established manufacturing base in Ireland.



Irish manufacturing

Designed and manufactured in Cavan, supporting customers across Ireland, the UK and Europe.

50

50 years of experience

A long-established transformer manufacturer with deep sector knowledge and proven technical capability.



End-to-end control

In-house engineering, fabrication, assembly, testing and logistics support for greater consistency and accountability.



Built for critical sectors

Transformer solutions for utilities, renewable energy, industrial customers and essential infrastructure.



Backed by R&S Group

Local manufacturing strength supported by a wider European power products group.



Our History.

50 years of transformer manufacturing in Cavan.

Kyte Powertech's story began in 1977, when Belgian company Pauwels Trafo established operations in Cavan, bringing a major transformer manufacturing industry to the region. One year later, the facility produced its first transformer, marking the beginning of a long-standing manufacturing legacy.

Over the decades, the site continued to grow in scale, capability and technical expertise. From the introduction of single-phase transformer production in the 1980s to major factory expansion in the 1990s, the business became an important industrial employer in the region and a trusted supplier to energy markets at home and abroad.

The production of the 200,000th transformer in the early 2000s marked a significant milestone in the company's development, reflecting both the strength of its manufacturing base and the skill of its people.

In 2020, the business became Kyte Powertech following a management buyout, beginning a new chapter under Irish ownership. In 2024, Kyte Powertech joined R&S Group, strengthening its position and expanding its reach across Ireland, the UK and wider European markets.

Today, Kyte Powertech remains proudly based in Cavan. With five decades of experience behind us, we continue to build on our heritage through engineering expertise, controlled manufacturing and a commitment to reliable transformer solutions for modern energy networks.

Our Facility.

End-to-end transformer manufacturing from our Cavan site.

Kyte Powertech operates from a 17,500 sqm manufacturing facility in County Cavan, Ireland, equipped to support every stage of oil-filled distribution transformer production. Our in-house capabilities include design engineering, metal fabrication, tank production, welding, shot blasting, leak testing, painting, core building, winding, internal assembly, transformer processing, final assembly, and testing.

By managing these critical stages under one roof, we maintain greater control over quality, production consistency and delivery performance. Each transformer is manufactured through a controlled process, supported by experienced teams, advanced equipment and robust quality procedures.

From material preparation through to final testing and dispatch, our facility is built around precision, accountability and reliable output for customers across utilities, renewables, industry and infrastructure.

Designed

Engineered around customer specifications and application needs.

Manufactured

Built in-house through controlled production processes.

Tested

Verified through routine testing before dispatch.

Delivered

Managed with project and logistics support from Cavan.

Every stage matters.

That is why we keep control of the process from specification to dispatch.



Our Products.

Oil-filled distribution transformer solutions for utilities, renewables, industry and infrastructure.

Kyte Powertech designs and manufactures oil-filled distribution transformer solutions for a wide range of power distribution applications.

From standard distribution units to bespoke transformer designs, our products are engineered around customer specifications, network requirements and project conditions. With in-house design, manufacturing and testing capabilities, we deliver reliable performance across utilities, renewable energy projects, industrial sites and critical infrastructure.

Each transformer is developed with a focus on long-term reliability, efficient operation and suitability for the environment in which it will be installed. Whether supporting network reinforcement, renewable generation, industrial expansion or specialist infrastructure, our solutions are designed to meet the technical demands of modern power distribution while supporting safe installation, dependable operation and future service requirements.

Our product range includes single-phase and three-phase distribution transformers, UK-specification transformers, package substations, pad-mounted transformers, amorphous-core transformers and special transformer designs.



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Single Phase

Voltage & Capacity:

Rated up to 400kVA, up to 36kV.

Applications:

Suburban and rural electricity distribution via single-phase overhead lines

Key Features:

Durable design with optional steepwave technology for enhanced lightning protection

Market Focus:

Built for efficiency, reliability and long service life in challenging network conditions



Three Phase

Voltage & Capacity:

Rated from 25kVA to 10MVA, up to 72.5kV

Applications:

Industrial sites, renewable energy projects and UK Distribution Network Operator requirements

Key Features:

Reliable performance, with designs tailored to specific electrical, mechanical and project requirements

Market Focus:

Extensive experience across Ireland, the UK and European markets, with thousands of units delivered annually



Pad Mount

Voltage & Capacity:

Rated up to 10MVA

Applications:

Suitable for utility and industrial applications, including radial and loop-feed grid configurations

Key Features:

Includes transformer ON/OFF switch, 65°C average winding rise, step-stacked core and obround coil design

Design Options:

Extensive experience across Ireland, the UK and European markets, with thousands of units delivered annually

Market Focus:

Built for safe, dependable operation in utility and industrial distribution networks

Our Products.



Package Substations

Voltage & Capacity:	Rated from 50kVA to 3150kVA, with primary voltages from 6kV to 36kV and low voltage outputs down to 400V
Applications:	Suitable for load growth areas and projects requiring a compact alternative to traditional substation arrangements
Key Features:	Compact footprint, rapid installation, optional bio-fluid, and optimised total cost of ownership
Integrated Equipment:	Can include MV equipment, LV distribution, recloser, SCADA, transformer ON/OFF switch, and DETC or OLTC tap changer options
Market Focus:	Designed for safe, efficient and reliable power distribution in utility, infrastructure, industrial and renewable energy applications



Three Phase UK

Voltage & Capacity:	Rated from 50kVA to 10MVA
Applications:	Designed for UK industrial, renewable energy and Distribution Network Operator requirements
Key Features:	Compact and lightweight transformer designs, tailored to UK specification and project requirements
Design Options:	Available with off-circuit tap changers, arcing horns, lightning arresters, integrated fuses and optional bio-fluid
Market Focus:	Built to support reliable power distribution across UK utility, industrial and renewable energy applications



Amorphous

Voltage & Capacity:	Rated from 50kVA to 3150kVA
Applications:	Suitable for energy-efficient grid applications where reduced transformer losses are a priority
Key Features:	Very low-loss core design, helping to improve energy efficiency and reduce operational losses over the transformer lifecycle
Design Options:	Tailored designs available to suit project-specific requirements, with optional bio-fluid where required
Market Focus:	Built for customers seeking lower-loss transformer solutions for efficient and more sustainable power distribution

Our Products.



Special Transformers

Voltage & Capacity:	Custom-built on request
Applications:	Tailored transformer solutions for unique electrical, mechanical and site-specific requirements across a wide range of industries
Key Features:	Built-to-order designs, with options for low-loss performance, reduced noise, compact footprint and optimised total cost of ownership
Design Options:	Available with DETC or OLTC tap changers, optional bio-fluid, forced cooling, integrated protection and special cable box arrangements
Market Focus:	Designed for projects where standard transformer configurations are not suitable and a customised technical solution is required



Special Transformer Types

Voltage & Network Configurations:	Dual voltage transformers, auto-transformers, phase shifters, Scott and tri-mono transformers
Renewables, generation & conversion:	Generator transformers, rectifier transformers, converter transformers
Grid support & protection	Earthing transformers, transformers with integrated protection, including fuses
Efficiency & compact design:	Amorphous metal distribution transformers, compact substations, COMPACT and Bio-COMPACT high-temperature transformers
Application-specific designs:	Transformers with special cable boxes, air or oil-filled options, and forced cooling systems with fans or heat exchangers



CASE STUDY

Single-Transformer Solution for Solar PV, BESS & Grid Connection.

A commercially deployed solution at Liverpool John Lennon Airport.

Kyte Powertech developed a single-transformer solution that combines solar PV generation, battery energy storage, and grid connection into a unified electrical interface.

Deployed at Liverpool John Lennon Airport, the solution forms the central electrical interface for a 3MW on-site solar PV and BESS installation, delivered by Activ8 Energies in partnership with SSE Airtricity. The system is expected to supply up to 25% of the airport's electricity demand, with surplus energy exported to the grid.

Rather than using separate transformers or primary interfaces for each asset, Kyte's multi-voltage transformer consolidates solar generation, battery charging and discharging, on-site consumption and grid export through a single transformer footprint.

This approach reduces system space, weight and complexity while supporting future expansion. Dual low-voltage outputs allow separation of solar and battery connections, enabling staged growth of generation and storage capacity without major redesign or replacement of primary equipment.

For critical infrastructure environments, this simplified architecture supports clearer protection schemes, efficient electrical coordination and long-term operational flexibility.

Key Project Facts:

4000kVA

Rated power

11kV

Primary voltage

800V + 800V

Dual secondary outputs

3MW

Solar PV and BESS installation

Up to 25%

Expected airport electricity demand supplied

C5M

Corrosion protection

Design highlights

- Single transformer interface for solar PV, BESS and grid connection
- Dual LV outputs for solar and battery separation
- Natural ester insulation
- KNAN cooling
- Integrated protection
- Tier 2 EcoDesign
- Compact footprint for space-constrained infrastructure

This project demonstrates Kyte Powertech's capability to engineer transformer solutions for complex renewable energy and storage applications where reliability, integration and future flexibility are critical.



Rhyl Flats, Liverpool Bay

25-turbine, 90-megawatt wind farm

Kyte Powertech proudly delivered transformers for the Rhyl Flats Offshore Windfarm, tailored to meet the challenges of marine environments. These advanced units reduce losses, handle harmonics up to a K factor of 4, and feature optimized cooling and extended lifespan technologies, supporting sustainable energy generation.

Sustainable Peak Load (SPL)

Engineered for peak demand. Optimised for real load conditions.

Sustainable Peak Load transformers are specialised distribution units designed to support controlled temporary peak loading without the need to oversize transformer capacity for short-duration demand. Kyte Powertech's SPL transformers combine dielectric fluid technology, advanced insulation systems and compact transformer design to support modern distribution networks facing increased demand from electric vehicles, heat pumps, renewable generation and battery energy storage.

By aligning transformer capabilities more closely with real load conditions, SPL technology can help reduce material use, minimise energy losses, and support a more efficient total cost of ownership compared with conventional oversized transformer solutions.

Up to 150%

Controlled peak load capability

Up to 25%

Less steel

EU Ecodesign

compliant

11–15%

Reduction in total transformer weight

Up to 17%

Less aluminium

Designed for real load profiles

SPL transformers are engineered for networks where peak demand occurs for limited periods rather than continuously. This allows operators to manage higher short-duration demand without defaulting to larger conventional transformer ratings.

Material-efficient by design

The reduced material requirements enable a more compact transformer solution, reducing overall weight and improving substation layout efficiency, particularly in space-constrained locations.

Supporting modern distribution networks

SPL transformers are suited to applications affected by electrification, distributed generation and changing demand patterns, including urban distribution areas, renewable energy integration and industrial or utility networks.

Safety and environmental performance

Natural ester fluids enhance fire safety and environmental performance through biodegradable, less-flammable insulation, while advanced insulation systems ensure reliable operation under variable and peak loading conditions.

Kyte Powertech SPL transformers support efficient, flexible and lower-impact grid design for distribution networks facing rising and less predictable demand.



On Load Tap Changers (OLTC's)

Dynamic voltage regulation for modern power networks.

On-load tap changer transformers enable voltage regulation under load without interrupting the power supply. By adjusting the transformer turns ratio in real time, they help maintain a stable secondary voltage as network conditions change.

Designed for distribution, industrial, and renewable energy applications, OLTC-equipped transformers support reliable voltage control across networks affected by load fluctuations, long feeder distances, voltage drop, and intermittent renewable generation.

±5% to ±10%

Voltage regulation range

500,000+

Switching operations without maintenance

Incremental tap adjustment

Controlled voltage correction under load

Manual or AVR controlled

Flexible operation to suit network requirements

Natural ester compatible

Suitable for mineral oil and natural ester fluid applications

Application Areas

Urban Electrical Distribution

Voltage regulation for space-constrained substations and long feeder networks.

Renewable Energy Integration

Voltage control and power flow management for wind and solar networks.

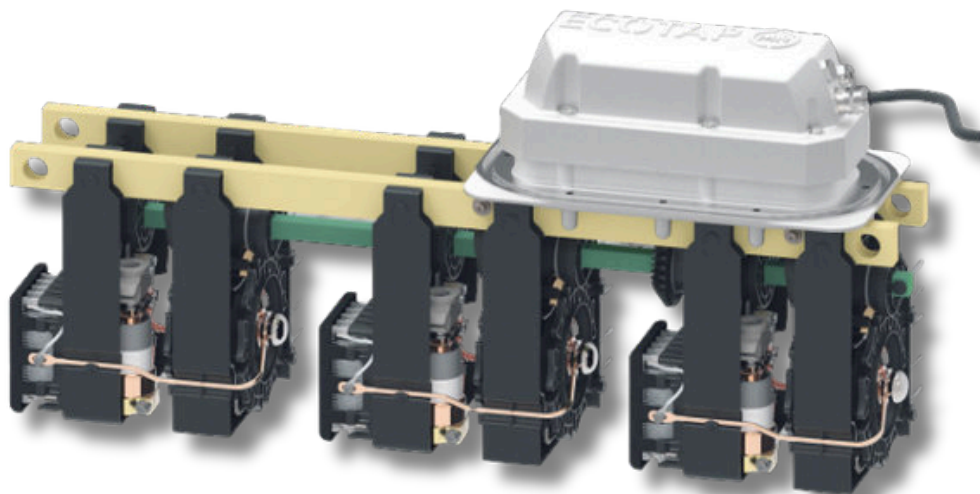
Industrial & Utility Networks

Regulation for rectifier, furnace and high-variability load applications.

Standards & Compatibility

Kyte Powertech OLTC transformer solutions can be manufactured to IEC, ANSI, BS, UL and ENATS standards and are proven in distribution, industrial and renewable applications.

Kyte Powertech OLTC transformers support stable voltage, reduced maintenance requirements and reliable network performance for modern power systems facing increasingly variable demand.





Market Sectors.

Transformer solutions for essential power distribution applications.

Kyte Powertech supplies oil-filled distribution transformer solutions for customers operating in critical and demanding energy environments.

From utility networks and renewable energy projects to industrial sites, infrastructure, and energy storage applications, our transformers are designed to deliver reliable performance, efficient power distribution, and long-term operational resilience.

Utilities:	Transformer solutions for distribution networks, supporting reliable and efficient power supply across established and developing grid infrastructure.
Renewable Energy:	Solutions for wind, solar, tidal, biomass and related clean energy projects, supporting the integration of renewable generation into the grid.
Industrial & Commercial:	Transformers for manufacturing facilities, commercial developments, healthcare sites and other high-dependency operations requiring dependable power distribution.
Infrastructure:	Solutions for essential infrastructure, including airports, transport, public services and sites where reliability, safety and continuity are critical.
Battery Energy Storage Systems:	Transformer solutions for BESS projects, supporting grid flexibility, renewable integration and energy management applications.
EV Charging Infrastructure:	Distribution transformer solutions to support the growing demand for high-capacity electric vehicle charging networks.
Special Applications:	Custom transformer designs for complex or demanding environments, including oil and gas, nuclear and other technically specific sectors.

Whether the requirement is network resilience, renewable integration, site expansion or specialist power distribution, Kyte Powertech works with customers to deliver transformer solutions aligned with project and sector needs.

Quality, Testing & Certifications.

Controlled manufacturing. Accredited testing. Proven supplier confidence

At Kyte Powertech, quality is not treated as a final inspection stage. It is embedded throughout our manufacturing process, from design review and material preparation through to production, testing and dispatch.

Our certified management systems and accredited testing capability support the consistency, reliability and traceability expected by customers operating in critical power distribution environments.

Through recognised standards in quality, laboratory competence, workplace safety and supplier assurance, we provide customers with confidence that every transformer is manufactured, tested and delivered through controlled, independently assessed processes.

ISO 9001: Quality Management

ISO 9001 underpins our quality management system and supports a consistent approach to process control, customer requirements, documentation and continuous improvement.

ISO 17025: Accredited Testing Laboratory

ISO 17025 is one of the most important accreditations behind our testing capability. It recognises the technical competence of our laboratory and the reliability of the testing processes used to verify transformer performance.

ISO 45001: Occupational Health & Safety Management

ISO 45001 supports a structured approach to health and safety management across our manufacturing operations.

Achilles: Supplier Assurance

Achilles supplier assurance strengthens customer confidence in Kyte Powertech as a qualified and procurement-ready supplier.

INAB: Accredited Competence

INAB accreditation supports the credibility of independently assessed certification and laboratory competence.

Together, these standards demonstrate Kyte Powertech's commitment to controlled manufacturing, technical verification, workplace safety and supplier assurance.

For customers, this provides confidence that our transformer solutions are supported by recognised systems, accredited competence, and a manufacturing culture built around quality, reliability, and accountability.



Kyte Powertech ships to customers in 24 countries worldwide, showcasing the quality and reliability of our products. As we continue to expand our global presence in partnership with **The R&S Group**, our commitment to excellence and innovation remains unwavering.

Sustainability & Responsible Operations.

Supporting reliable power distribution with accountable environmental and social practices.

At Kyte Powertech, responsible operations are part of how we design, manufacture and deliver transformer solutions.

Our approach is built around measurable environmental management, energy efficiency, responsible procurement and continuous improvement across our Cavan manufacturing facility. Through recognised standards and verified reporting, we aim to reduce operational impact while supporting customers with reliable, long-life transformer solutions.

We continue to invest in systems and practices that support environmental accountability, workplace safety, energy management and responsible business performance.



Energy Performance

ISO 50001 certification supports our focus on energy management, efficiency and responsible use of resources across our manufacturing operations.



Community & people

Our sustainability approach also includes investment in people, education, local community initiatives and a diverse workplace.



Carbon Net Zero Certified

Kyte Powertech is certified Carbon Net Zero for all mandatory emissions, including Scope 1, 2, and 3 for 2023, showcasing our commitment to sustainability and verified environmental responsibility.



Responsible procurement

We work with suppliers who support quality, ethical business conduct and responsible sourcing across the transformer supply chain.



Responsible product options

Where project requirements allow, we can support transformer designs with lower-loss performance and optional bio-fluid solutions.

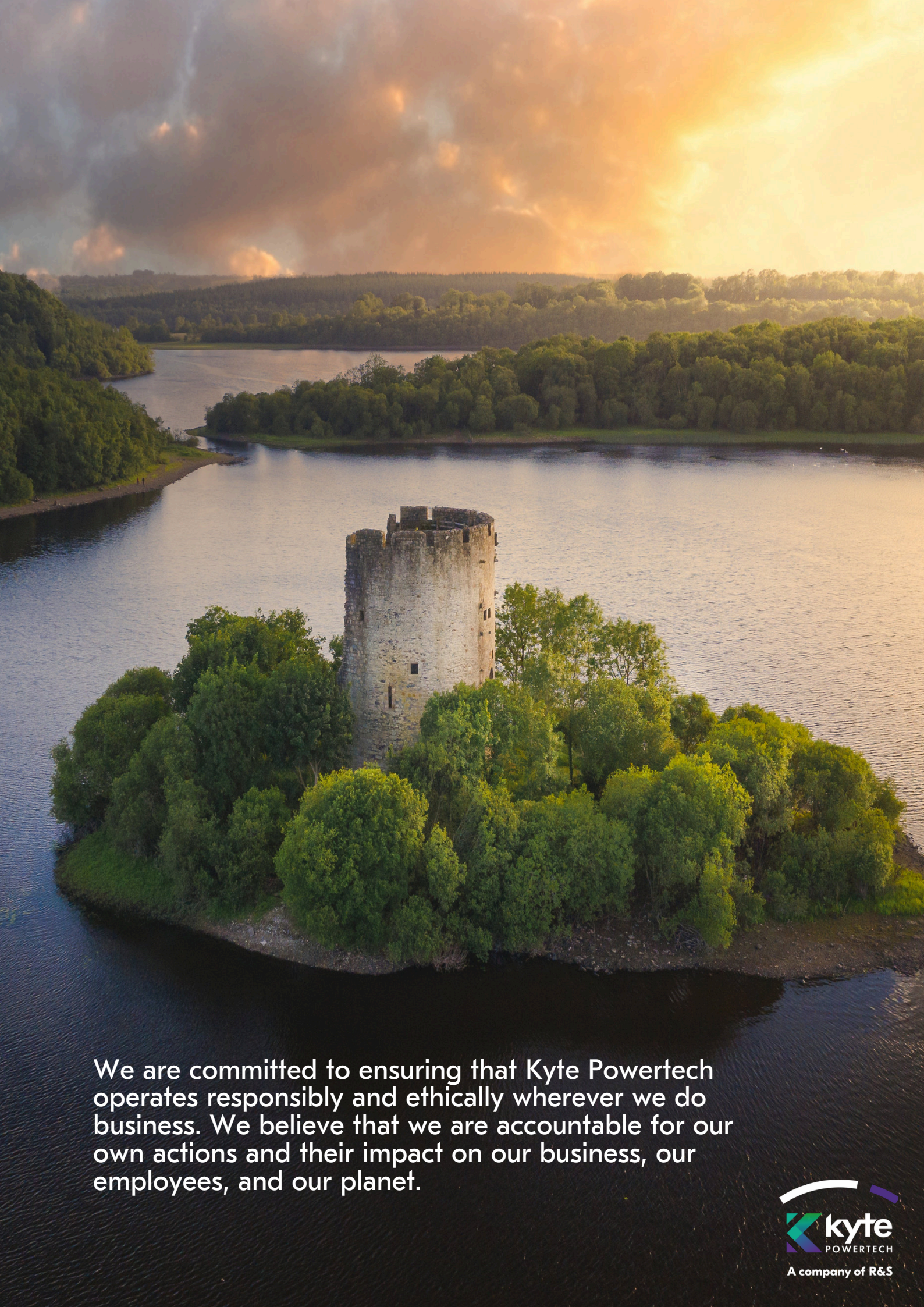


Environmental Impact and GHG Management

Our operations are supported by ISO 14001 environmental management certification, helping us manage environmental responsibilities through structured processes and continuous improvement.

For Kyte Powertech, sustainability is not a standalone statement. It is reflected in how we manage our operations, measure performance, support our people and deliver reliable transformer solutions for long-term use.





We are committed to ensuring that Kyte Powertech operates responsibly and ethically wherever we do business. We believe that we are accountable for our own actions and their impact on our business, our employees, and our planet.



BIG
CONNECTIONS

People, Community & Skills.

Investing in our workforce, our community and the next generation.

Kyte Powertech is proudly rooted in Cavan, where our manufacturing facility has supported local employment, skills development and community life for nearly five decades.

Our people are central to the quality of the transformers we design, manufacture and deliver. With a diverse workforce and a strong base of technical, manufacturing and engineering expertise, we are committed to supporting a workplace where people can develop, contribute and build long-term careers.

Beyond our facility, we continue to support local initiatives that strengthen education, sport, inclusion and community development.

Workforce development

We support skills development across our teams, including English language training to improve communication, collaboration and professional development within our multicultural workplace.

Education and future talent

Through the Kyte Powertech Scholarship in Science, Engineering and Business, we support students as they take the next step in their education and future careers.

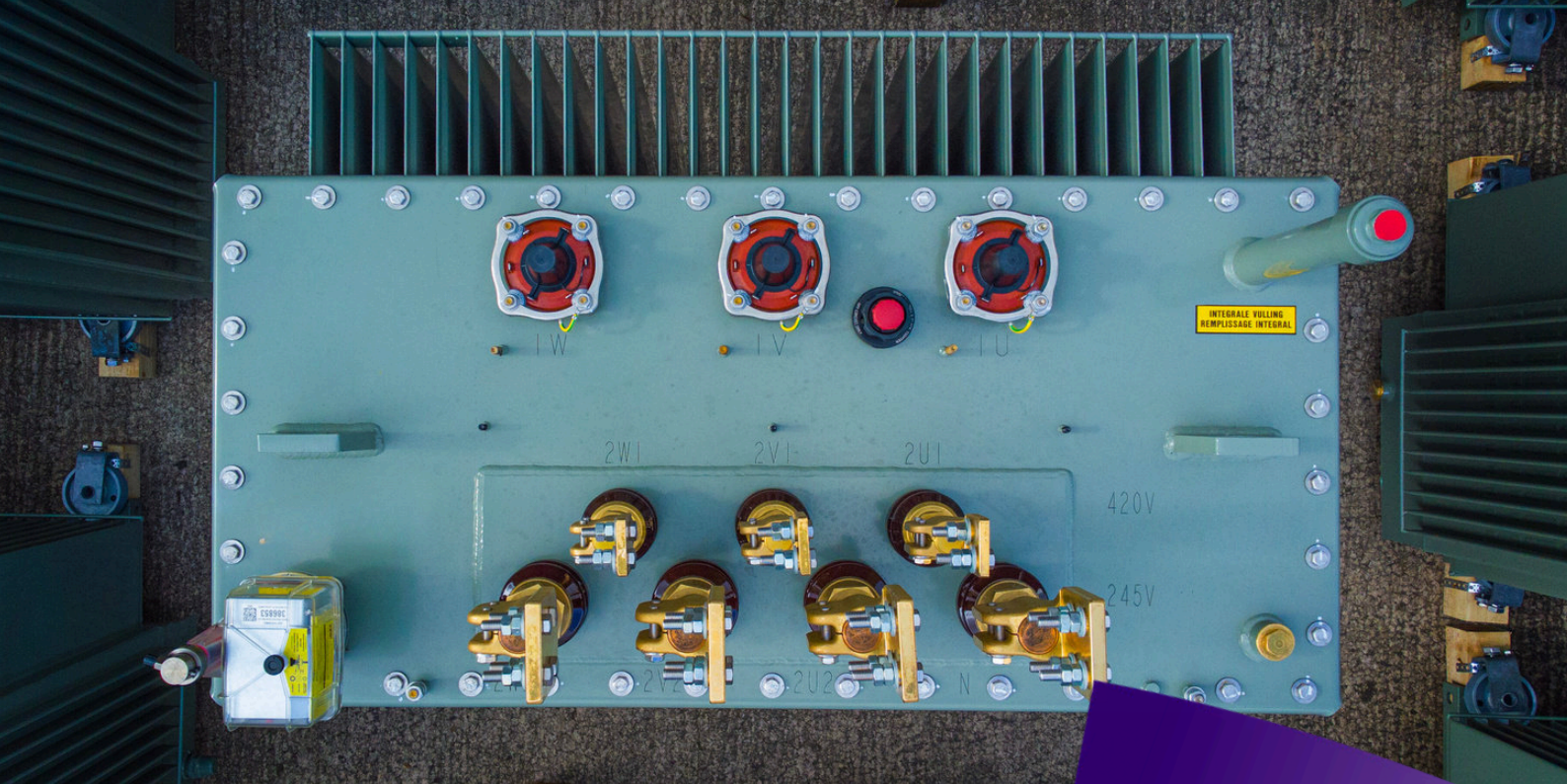
STEM and sustainability outreach

We engage with schools and local education initiatives to encourage interest in engineering, sustainability and the energy sector.

Community partnerships

Kyte Powertech supports local clubs, charities and community organisations, including initiatives across GAA, LGFA, rugby, basketball and inclusive sport.

As a long-standing employer in Cavan, Kyte Powertech recognises that our impact extends beyond the transformers we produce. It is also reflected in the people we support, the skills we develop and the community we are part of.



Part of R&S Group.

Irish transformer manufacturing supported by wider European power product expertise.

Kyte Powertech is part of R&S Group, a Swiss-based power products group with manufacturing facilities, specialist companies and technical capability across key international markets.

For Kyte Powertech customers, this strengthens our position as a trusted transformer manufacturer while preserving the local expertise, production control, and customer focus that define our Cavan operation.

As part of the wider group, Kyte Powertech can draw on complementary expertise across distribution transformers, power transformers, cast-resin transformers, switching devices, railway electrification products, and industrial electrical connectors.

This combination allows us to offer customers the benefit of an established Irish manufacturing base, supported by broader European capability and specialist knowledge across the power products sector.

Local manufacturing strength

Kyte Powertech continues to design, manufacture and test oil-filled distribution transformers from our facility in Cavan, Ireland.

Wider group capability

R&S Group brings together specialist companies across transformer manufacturing, switching devices and related power products.

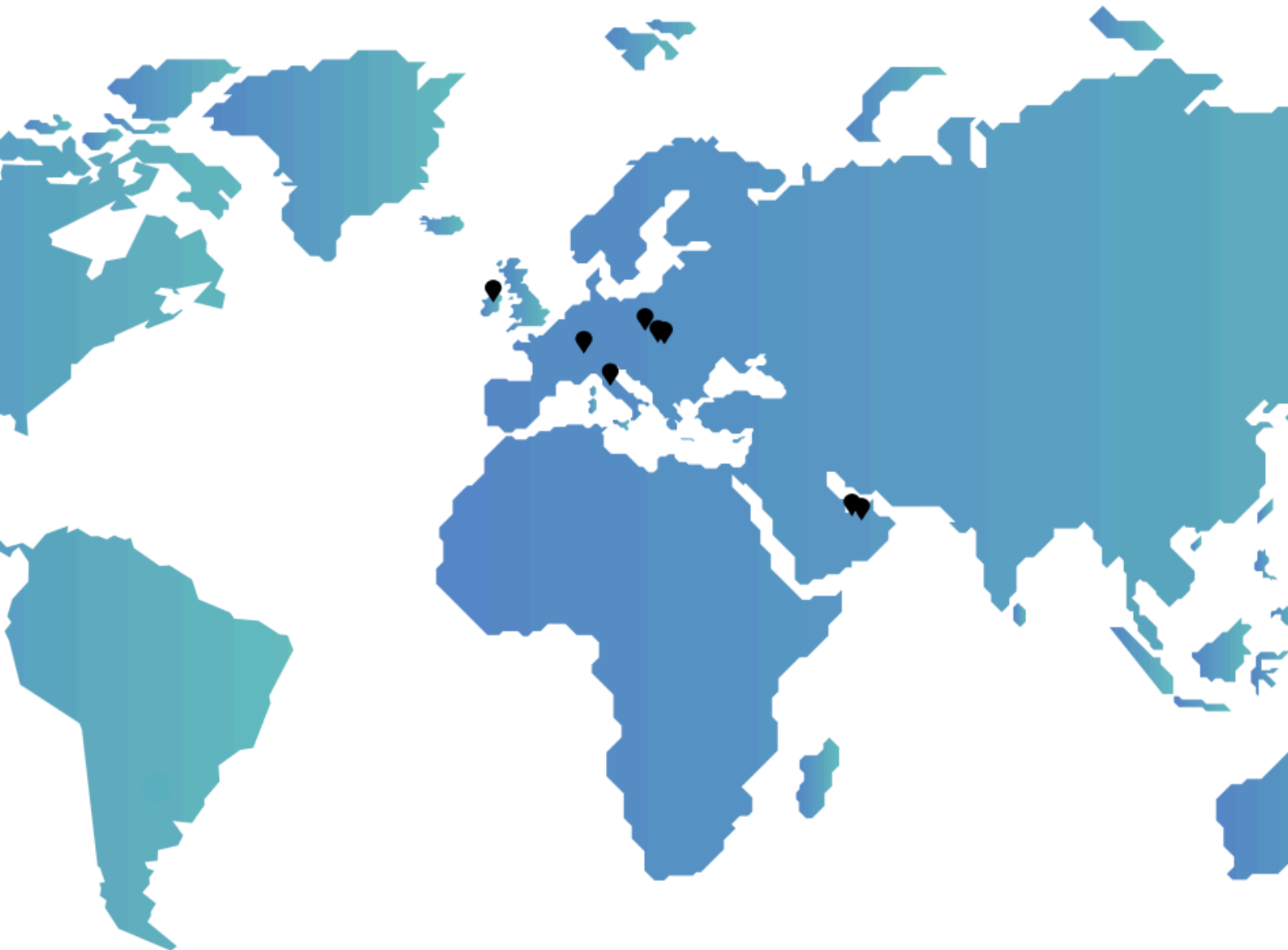
Complementary expertise

Group companies support a broader product portfolio, including cast resin transformers, power transformers and other electrical infrastructure solutions.

Customer confidence

Kyte Powertech combines long-standing local experience with the additional strength, scale and technical backing of an international group.

As part of R&S Group, Kyte Powertech is positioned to support customers with the responsiveness of a local manufacturer and the added confidence of wider European power product expertise.

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