

Panels & Containerised Solutions

Where high performance meets proven reliability





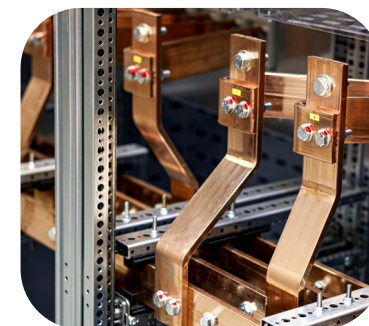
Bespoke engineered solutions

When operating in demanding conditions on energy-intensive sites, you need high-quality, safe, reliable and sustainable solutions that suit your exact needs. Our expert engineers across our network are highly experienced working in critical industries and fully understand the pressures of your environment, putting you in safe hands.

We design, manufacture and install a range of bespoke panels and innovative containerised solutions, built completely in-house to your exact specifications. Our installations are planned to the letter to ensure we minimise downtime and help keep to your operational schedule. Once installed, you have the reassurance that our products are designed with ease of maintenance in mind to support your operational efficiency.

With 100 people working across our panels business and circa £20m activity across four locations, you can be sure of access to a wide range of expertise and specialisms within our team, whatever your needs.

Within our network we have four expert panel solution brands working within the UK and for export, as follows:



LV switchboards, packaged substations, containerised switchrooms, feeder pillars & site modifications



Floor- and wall-mounted panel options, power factor correction and production line assembly



Bespoke factory-built assemblies, automatic transfer switches (ATS), design consultancy & site services



Modular LV switchgear & Motor Control Centres, containerised solutions, control panels and power systems



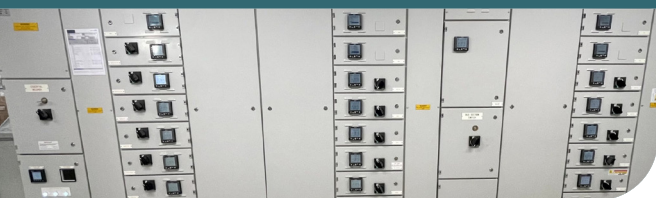


LV Switchboards

Our bespoke switchboards are built completely in-house and custom-engineered to your specific environment.

We offer both fully welded or modular constructions, taking care of the design, build, installation, and commission, with minimal disruption to your site.

- Range up to 6300 amps
- Approved Schneider partner, and experienced with a range of main suppliers
- Ease of access for maintenance and terminating cables



Packaged substations

Our convenient packaged solutions, including containerised substations, require less space and reduce the cost of cabling, civil engineering and maintenance.

We offer oil-filled or cast resin transformers, and we're not tied to one supplier, so we provide you with the best solution for your needs.

- Up to 33kV
- Can provide HV cable connections, or close-coupled RMUs
- Designed, built, installed and tested by us



Feeder pillars

We design and engineer high-quality, externally weatherproof feeder pillars for a variety of applications, with painted stainless steel for protection.

Our feeder pillars also eliminate the need for GRPs in the EV charging environment, significantly reducing costs and time to deployment.

- Up to 3200amps
- Weatherproof up to IP65
- Reduced lead times



Containerised switchrooms

Our bespoke containerised switchrooms offer a self-contained alternative, designed to house and protect a range of electrical infrastructure.

These are quick to install and deploy and more cost-effective than traditional brick-built options.

- Ease of maintenance and support
- Provides a common solution across multiple sites
- Safe, reliable, secure solution



Automotive



Retail



Healthcare



Marine



Site modifications

Whether it's an installation into an existing fabrication you need, or a bespoke modification, we can help. We work within a tight shutdown window few others can compete with.

We're also a Schneider Ecofit partner, helping you upgrade ageing switchgear to enhance performance, increase safety, and reduce maintenance costs.

- Flexible – working nationwide
- Retrofit and modifications, including switchboard surveys
- Schneider Ecofit partner for the MT22 upgrade



"I have engaged Twyver over the last 15 years on a variety of projects holding the position of electric project manager (retail sector). They have been second to none in providing all services regarding electrical switchgear from design to onsite installation/modifications."

**Project Manager,
Retail Outlet**



+44 (0) 145 252 5096



sales@twyver.co.uk





LV Switchgear Panels

We offer a full design and build bespoke package, including retrofitting of existing boards, to ensure the most efficient use of space in your switchroom.

Working closely with all the main manufacturers, we offer a range of add-ons including metering, surge protection, bus coupling and close coupling.

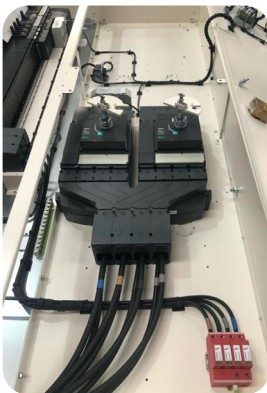
- 16A-6300A
- IP ratings IP2X – IP67, and Form 3b Type 2 – Form 4 Type 7
- Type testing to 61439-1 standards



LV Panel Boards

Where floor space is at a premium, wall-mounted LV panels could be the answer. These are highly durable, providing safe and easy access. We work closely with all the main manufacturers to provide you with panels tailored to the specific needs of your site.

- 16A-800A, with a range of additional options
- IP ratings IP2x – IP31, and Form 3b Type 2 – Form 4 Type 6
- Type testing to 61439-1 standards



Power factor correction

Power factor correction (PFC) improves the overall efficiency of your electrical system which is vital for long-term trouble-free operation. We can build into floor-standing panels or install a standalone PFC unit.

Our team work closely with you to understand your site and the level of functionality required.

- Reduced power system losses
- Increased load carrying capabilities in existing circuits
- Reduced demand charges



Manufacturing



Education



Healthcare



Production line assembly

We create custom-built assemblies to your specification, managing all aspects of process and quality control. For instance, we're currently producing 100 panels a week for an OEM that integrates our panels into its own systems. We're experts at envisioning efficient production lines with quality and safety assured.

- Variety of sizes
- Capacity for low-end and high-end manufacture
- 25+ years experience



"HAC Group are our preferred partner for bespoke switchgear solutions for our customers. The team handle all our projects from start to finish and work hand in hand with our end clients to provide the right solutions within tight deadlines. We wouldn't hesitate to recommend HAC group at all for any switchgear requirements."

**Sales Manager,
Electrical Wholesaler**





Bespoke factory-built assemblies (FBA)

Our factory-built LV sub distribution FBAs provide a cost-effective, engineered solution that's fully assembled, tested and ready to go, often at a fraction of the cost of buying loose gear from a wholesaler. We can integrate your specific requirements such as metering, surge protection, AFDD etc as a complete factory-built solution.

- Fully customisable and cost-effective
- Covering SP, TP and AFDD distribution boards 63A-250A
- LV panel boards up to 800A and 36 outgoing ways



Site services

We can help keep your site running efficiently in a variety of ways, like replacing obsolete equipment with new ACBs or modifying and modernising panels to meet changing site or load requirements. Routine servicing and maintenance reduces the risk of down-time while prolonging the serviceable lifespan of your equipment.

- Retrofits and modifications
- Surveying for the purpose of replacement
- Fault finding and repairs



Automatic Transfer Switches (ATS)

We reliably transfer business-critical loads to emergency sources with our industry-leading automatic and non-automatic transfer switches. Whether as standalone enclosed units, or built into a switchboard, panel board or DB, we have an offer to cover all requirements.

- From 25A to 6300A
- DP, TPN and 4P
- Applicable in many environments, including those with critical power needs
- Available in single, dual and none bypass configurations

Switchgear
Services



Aerospace



Defence



Food & Beverage



Design consultancy assistance

Our experienced team can help your consultancy determine the best solutions for your project's specific challenges. We can help with feasibility studies, spatial constraints, cost plans etc to design a comprehensive solution to maximise performance.

- LV Switchboard design to 6300a
- Panel boards, distribution boards and consumer units
- Power factor correction and active harmonic filtering
- CT chambers and generator connection points



"I have worked with Switchgear Services for many years on a multitude of projects for our LV Switchboard and sub distribution requirements. Their professionalism combined with exceptional quality and project delivery makes them a valued delivery partner for our business."

Leading National M&E Contractor





Low Voltage Switchgear and Motor Control Centres

Our LV Switchboard and Motor Control Centres are a fully modular solution, giving you the flexibility to tailor the electrical components within. Ideal where space is limited, the modular system also offers ease of transportation and installation, with options to ex-tend or modify in the future.

- Rated up to 6300A, Form 1 to Form 4b Type 7
- Fully insulated or uninsulated options
- Front or rear access
- Top or bottom cable entry/exit
- Fixed or withdrawable



Power systems

Our Power Management Systems give you a truly flexible way to control your site infrastructure. We fully tailor the system to your site with the option to add or remove features as your needs evolve. The systems also integrate seamlessly with process plant and existing control systems.

- Synchronising and CB control
- Load sharing and shedding
- PLC hardware and software
- Generator management
- Real time data



Control Panels

Whatever type of control panel you're looking for, you can be sure we have the expertise to design and build to your exact needs.

Our bespoke panels are built completely in-house to tightly control the build quality, and Factory Acceptance Tests (FATs) are conducted in our designated test bay area.

- Floor standing or wall-mounted
- Stainless steel or mild steel painted
- Ingress protection up to IP66
- Front or rear access
- Top or bottom cable entry/exit



Energy



Nuclear



Chemicals



Containerised Solutions

Our containerised solutions can be supplied fully fitted, pre-cabled, tested and ready to install on site, reducing the need for costly and disruptive civil engineering works. Designed and constructed to meet onshore and offshore demands, they're fully customised to suit your specific site restraints.

- Standard ISO containers or bespoke
- Mild steel, GRP or stainless steel construction
- Fire rated
- Safe or hazardous area
- Optional raised support structure and access
- Single or redundant HVAC system



"It has been a real pleasure working with you and your team to deliver a piece of equipment that is without doubt fit for purpose and delivered in accordance with our requirements. On behalf of all involved, I'd like to thank you for your efforts in delivering the equipment we required ahead of a very challenging schedule. I look forward to working with you again in the future."

**Design Manager,
Sellafield Ltd Resilience
Programme**



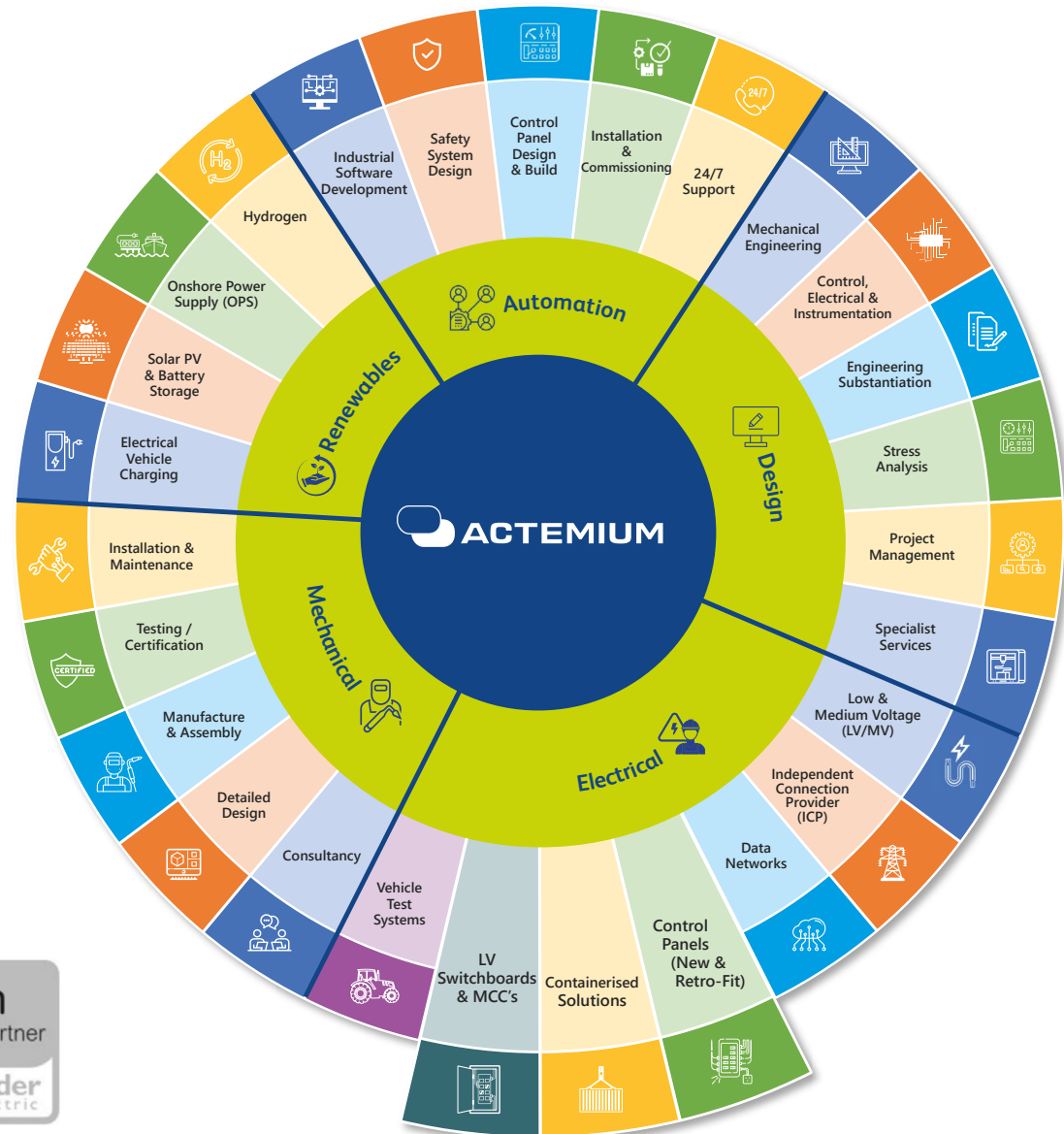
About Actemium UK

Actemium has multiple centres of excellence spread across the UK each empowered to operate with autonomy. With an embedded culture of transparency and encouragement to think like our customers, we deliver safe, reliable and sustainable projects through our incredible people.

Spin the Actemium Wheel to see the diversity we can offer in competence and market sectors. We exist to help our customers improve their performance & competitive advantage.

Why our repeat business is so high

- We are a people business
- We are honest & do the right thing
- We put the customer first
- We innovate
- We share success
- We do what we say we will
- You can trust us



EATON

Authorised
Panelbuilder

EcoXpert
Digital Panel

Certified by
Schneider
Electric

EcoXpert
Power Distribution

Certified by
Schneider
Electric

Okken
Licensed Partner

by **Schneider**
Electric