In the UK.
For the UK.

BRUSH
POWER SOLUTIONS

FROM CONCEPT TO CONNECTION

Comprehensive design, build, and connection solutions for UK power infrastructure

Key benefits

- Customised solutions
- Installation & commissioning
- Efficiency
- Renewable power
- Equipment maintenance & upgrades

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ACCREDITED
NERS
NATIONAL ELECTRICITY REGISTRATION SCHEME

WHERE COMMITMENT TO DELIVERY MEETS PASSION FOR DESIGN

BRUSH Power Solutions is the new name for ICP-accredited engineering solutions providers, **KUS Power Engineering** and **Aprenda.** Bringing together the proven expertise of these high-voltage specialists, together they deliver comprehensive end-to-end HV infrastructure solutions from 11kV to 400kV.

aprenda + KUS POWER ENGINEERING

From initial design and consultancy through to construction, testing, and commissioning, BRUSH Power Solutions support the evolving needs of critical infrastructure and the transition to net zero.

Shaping the future of energy management

Enhancing customer experience and maximising specialisms, experience, and expertise, by bringing both businesses together in BRUSH Power Solutions, we can offer an even greater range of connection solutions, providing innovations that will enhance the energy management landscape now and into the future.

A leader in engineering solutions

BRUSH Power Solutions is part of BRUSH Group a leading provider of agile and adaptive engineering solutions and products.

For almost 150 years, BRUSH has utilised its in-house expertise, experience, and extensive capabilities to deliver bespoke solutions that help shape the UK's critical infrastructure.

Sectors we support

Infrastructure | Renewables | Transport | Healthcare | Commercial | Industry | Utilities

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CONNECTION SOLUTIONS THAT DRIVE PROGRESS

Working across the energy landscape, we provide end-to-end solutions to DNOs, IDNOs, EPCs, developers, and private network operators, delivering tailored, OEM-agnostic solutions that combine extensive industry knowledge and experience with access to a flexible portfolio of products and services.

Design & consultancy

Bespoke engineering design solutions with safety, performance and sustainability at their core.

- **HV substation design (11–400 kV)**
- **Protection and control schemes (primary/secondary)**
- **SCADA systems and control panel integration**
- **Civil, structural and earthing design**
- **Grid connection applications (ICP-accredited)**
- **Renewable and BESS network studies**
- **Principal Designer (CDM) services**

Build & installation

Turnkey construction and installation solutions for substations, plant, and HV networks.

- **Substation build and refurbishment (AIS/GIS)**
- **Switchgear and transformer installation**
- **HV/LV cable laying, jointing and termination**
- **Control building fit-out and cable containment**
- **OEM-agnostic equipment handling**
- **Full site mobilisation and enablement**

BRUSH

TRUST. WELL EARNED.

From available resources to project constraints and client expectations – every project is unique.
Our approach is to utilise our in-house expertise and technical expertise to design bespoke solutions that address each project's specific requirements.

Testing, commissioning & maintenance

Safe energisation, ongoing performance, and lifecycle reliability of power assets.

- **G59/G99 testing and compliance support**
- **Relay and protection system testing**
- **Transformer oil testing & DGA**
- **Planned & emergency maintenance**
- **Condition-based asset reporting**
- **Life extension and retrofit solutions**
- **Switchgear inspection and servicing**

Resource & delivery solutions

Skilled, site-ready professionals providing end-to-end project support.

- **Authorised personnel (SAPs/APs – 11/33/132 kV)**
- **Commissioning engineers and fitters**
- **Jointers, civils operatives, and project managers**
- **Embedded project delivery teams**
- **Short or long-term resource deployment**
- **Full project and construction management**
- **Safety and compliance oversight (ISO, Achilles, NERS)**

EXPERTISE AT EVERY STAGE

Substation upgrade

Southampton, England

132/33kV transformer substation upgrade in Southampton replacing aging transformers (A1MT/A2MT) and installing modern protection and control systems. Designed with safety, sustainability, and regulatory compliance in mind, the project met the eight-hour Emergency Return to Service (ERTS) requirement. Environmental considerations, civil and electrical design integration, and efficient delivery ensured enhanced reliability, performance, and future readiness of the facility.

Safety Upgrade Transformer Efficient

Renewables

Arbroath, Scotland

A bespoke renewable infrastructure project in Scotland delivering a 33kV connection and full civil, protection, and control works for a battery storage farm. Prioritising minimal environmental impact and stakeholder disruption, the team installed 150m of 33kV cable and met all client specifications. The project was completed safely, efficiently, and sustainably, with strong collaboration throughout.

Safety Collaboration

Solar farm infrastructure

Cambridge, England

Design and build of an 11km underground cable route using open-cut and HDD methods, linking a large-scale solar PV farm. A 33kV private wire connection, two customer substations, and a DNO switchroom with a 33kV/11kV transformer was also included. The project provides safe and reliable electrical solar farm infrastructure.

Safety Transformer Reliable Renewables

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Install and relocation

Deeside, Wales

Decommissioning of three 132/11kV transformers and the relocation of two onto semi-permanent bunds with re-energisation. Project scope included constructing and testing bunds, commissioning switchgear, and upgrading protection systems. Focused on enhancing resilience and reliability, the project progressed efficiently thanks to swift resource deployment and stakeholder coordination.

Safety | Transformer | Switchgear | Upgrade | Environmental

Asset replacement

Wiltshire, England

Full design-and-build contract including the replacement of A2MT and associated switchgear, including C2TET, C2T0, C2TVT, and C2T3/C2T1 and all electrical design and installation works as well as civil installation works. Delivered on time, on budget, and with zero safety incidents.

Safety | Grid Stability | Design | Efficient

Asset replacement

Amersham, England

Replacement of aging 132kV oil circuit breakers including installing new Siemens SF6 -free breakers, an updated protection scheme, and new batteries. Owned by National Grid and shared with SSEN and UKPN, the project required a contractor authorised to work with both SSEN and National Grid.

Safety | Collaboration | Trusted | Repair | Industry authority

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More information

E: info@brushpower.com
T: 01608 670710

| Hook | Glasgow

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