

Power Generation & Distribution

Control that keeps generation connected and networks



Generators and network operators must keep the lights on as the grid changes around them. More renewable, storage and embedded generation means new connections, tighter code compliance and more remote sites. Control and telecontrol systems have to work together, meet grid requirements and resist a growing cyber threat.

YOUR PRIORITIES

What matters most

Grid code compliance

Plant controls designed for grid compliance tests.

Availability and reliability

Plant that stays online and recovers quickly.

Visibility of remote assets

Reliable telecontrol for unmanned sites.

Cyber security

Control networks that support your NIS evidence.

STANDARDS

Standards we work to

IEC 61850

Communication networks and systems for power utility automation, including substations.

IEC 60870-5-101/104 and DNP3

Telecontrol protocols between substations, generation sites and control centres. DNP3 is IEEE 1815.

ENA Engineering Recommendation G99

Requirements for connecting generation, including storage, to distribution networks in Great Britain.

GB Grid Code and Distribution Code

Technical rules for connecting to and using Great Britain's transmission and distribution networks.

IEC 62351

Security for power system communications, including IEC 61850, IEC 60870-5 and DNP3.

NIS Regulations 2018 and NCSC CAF

Cyber security duties for operators of essential services in energy, assessed against the CAF.

HOW WE DELIVER

Specify

Design

Test

Commission

Hand over

Support

Systems we engineer

- Substation automation and control
- Generation and balance-of-plant control
- Solar, wind and battery storage sites
- Telecontrol, RTUs and control room SCADA
- Power plant controllers for grid compliance
- Energy metering and performance reporting

Why Matrix

- **Standards first.**
- **You own the system.**
- **Tested before site.**
- **Multi-vendor.**
- **In it for the long term.**

ISO 9001 certified • Cyber Essentials • CHAS • Constructionline • SafeContractor

Talk to us about your project

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