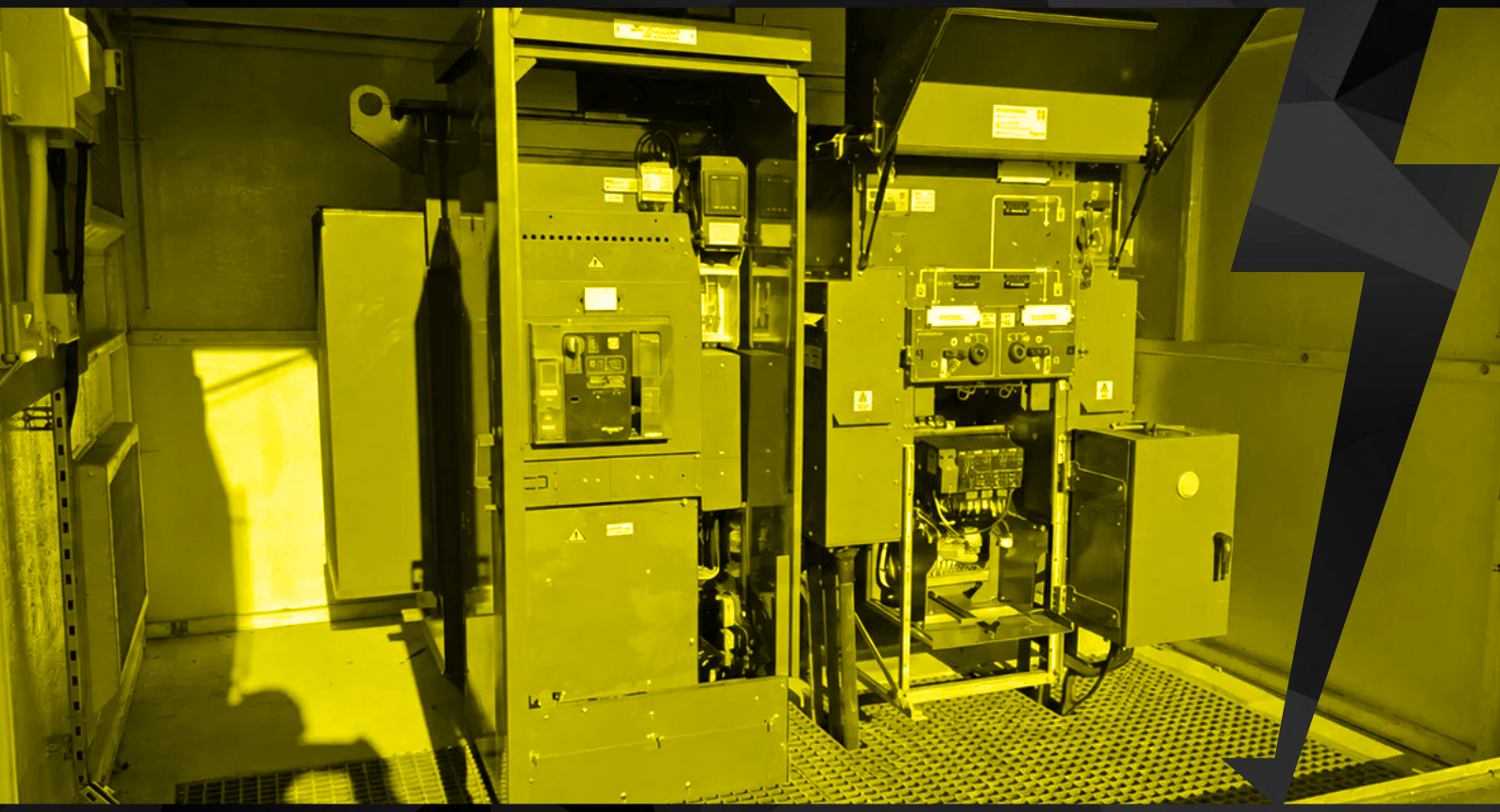
CASE STUDY | HV & LV INFRASTRUCTURE

Harwell Science & Innovation Campus

Oxfordshire



Power for progress. Built around a live campus.

Vantage delivered high and low voltage infrastructure upgrades across Harwell Science & Innovation Campus, combining specialist installation, network coordination and energisation around a busy, operational site.

Vantage

Safely Succeeding Together

HV & LV INSTALLATION | NETWORK COORDINATION | ENERGISATION

At a glance

13km+
HV & LV cabling installed

4
11kV transformers installed

6
Substations in the work package

A growing campus. Power that keeps pace.

Harwell Science & Innovation Campus in Oxfordshire is home to more than 250 organisations working across space, quantum technology, clean energy and life sciences. Across its 700 acre site, Harwell reports adding around 1 million sq ft of new space since 2020, with further research and advanced manufacturing facilities planned.

Vantage was appointed to install and energise the high and low voltage (HV/LV) infrastructure needed for expansion works. With several contractors and network partners operating across the campus, the job called for technical delivery and careful coordination around existing operations.

What we took on

Equipment and connections

Four 11kV transformers, six 11kV ring main units (RMUs), three LV distribution boards and seven bespoke heavy duty cut outs, supported by over 13km of HV/LV cabling, DNO route jointing and more than 360 cable terminations.

Testing, protection and energisation

Earthing, protection and CoP3 metering, small power and lighting across six substations, plus witness testing, DNO audits and approvals before final commissioning and energisation.



Complex site. Clear plan. Power on.

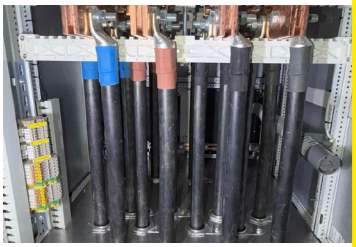
There was no single contractor working in isolation. Vantage coordinated with principal contractors, delivery partners and network representatives, using regular site meetings, remote reviews and technical workshops to keep the various electrical packages moving together.

Working on a live campus also meant building flexibility into the programme. Out of hours activity, phased shutdowns, private road closures and traffic management were planned around other site users, with CAD based logistics helping the teams manage access and deliveries.

An important part of the package was transferring supplies from temporary generators onto the new permanent infrastructure. Vantage managed the disconnections, network interfaces, testing and approvals involved in bringing the upgraded systems into service, while keeping disruption to campus operations to a minimum.







Work Completed

Full HV/LV installation, testing, commissioning and site energisation.

360+

HV & LV cable terminations

Planned around live operations.

Coordinated across contractors and network partners.

The Result

The new HV/LV infrastructure was installed, tested and energised, with Vantage coordinating the network interfaces and programme changes along the way. The team's flexible approach helped maintain momentum and, in some areas, bring delivery milestones forward for the end client.

About Vantage

Vantage Professional Services delivers electrical and civil engineering services, from feasibility and design to high and low voltage installation, testing and commissioning.

Need to upgrade power infrastructure on a live site?

Talk to Vantage about a practical plan for installation, network coordination and energisation.

Vantage

Safely Succeeding Together

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