

Hardtech[®]





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At Hardtech HV, we're driven by a simple belief: that the complex world of high voltage distribution should be built on trust, partnership, and a service experience that feels genuinely human. Combining the human touch with a 'digital first' approach, we ensure your projects run smoothly, communication is regular, and your outcome reporting takes hours, not days.

For over a decade, we've dedicated ourselves to the art and science of high voltage engineering. We don't just create, maintain, and upgrade networks; we build the foundational connections that power the ambitions of your industrial and commercial businesses. Whether you're a plants owner, a building owner, a developer, or a facility manager, we understand your need for reliable, seamless power - and we're here to deliver it with specialist skills you can count on.

We're also passionate about a bigger picture: supporting the businesses and investors who are pioneering the sustainable energy transition. We're proud to be a part of a future powered by clean, renewable energy, and we're committed to making that vision a reality for our clients.

As an Independent Connection Provider (ICP) approved to the NERS Standard, and with certifications like Construction Line Gold, CHAS, Avetta, ISO 9001 and 4001, and Safe Contractor, you can be confident in our expertise and our commitment to safety. But what truly sets us apart is our dedication to a more contemporary service experience - where your goals are our priority, and every interaction is built on mutual respect and genuine partnership.

Trust the outcome™

HV and LV Systems (up to 33KV)

Design
and Build

Diagnostic
Testing

Power
Factor
Correction

COMA
Contracts

Distribution
System
Surveys

Scheduled
Shutdown

Generator
Service and
Testing

Transformer
Testing

HVO
Transition

Relay
Testing

Unplanned
Outage
Recovery

24-Hour
Emergency
Call-Out

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We create, maintain, service, connect and upgrade your High Voltage Distribution Networks. Serving the ever-evolving needs of the Commercial, Industrial, FM and Institutional sectors, we ensure your site is reliably connected - and ready for a more sustainable energy transition.



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HV Connection

At Hardtech HV Connections, we're focused on one thing: making your infrastructure projects feel effortless. Whether you need a simple Low Voltage (LV) connection or building a High Voltage (HV) primary substation, we handle the entire project lifecycle, from initial estimate to final energisation.

It all starts with a clear roadmap: our detailed desktop analysis provides a precise quotation and an explicit scope of works, so you know exactly what we're delivering and what your role is - no guesswork, simply complete transparency.

Once you give us the green light, we hit the ground running, developing a tailored project programme and managing all the complex design elements - cable routes, earthing, civil plans, and single-line diagrams. We take the hassle out of approvals by proactively liaising with the Client, the DNO, and the IDNO.





As your reliable expert partner, we then handle all procurement and installation, including both the necessary onsite and offsite civil works alongside the electrical installation and jointing.

We manage the complexity so you can trust that when we flick the switch, your connection is safe, compliant, and ready to power your future.



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HV Construction

Within the Hardtech Construction division, we specialise in the complete design and build of new LV and HV systems up to 33kV. We offer our clients a seamless, in-house experience for planning, design, and full construction -all under one roof, backed by over ten years of expertise in substation infrastructure, pre-adoption, and securing energisation approvals with DNO and IDNO.

Conscious of our environmental impact, we are committed to keeping industrial waste minimal, often working with clients to upgrade and refurbish existing HV infrastructure to revitalise aging networks and extend the lifespan of equipment.





We ensure optimal performance of your infrastructure through comprehensive testing and continuous assessment of HV systems and load demand changes. For instance, frequent switchgear replacements are recommended to ensure the mechanisms remain robust and future-proof, thus safeguarding your assets against faults.





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HV Service & Maintenance

With a team of reliable, highly skilled engineers, we deliver industry-leading servicing and maintenance for your HV equipment, ensuring peak performance, minimal downtime and maximum efficiency.

Hardtech provides comprehensive maintenance solutions tailored to your site's needs, covering everything from routine inspections and preventative maintenance to expert fault diagnosis and rapid emergency repairs.

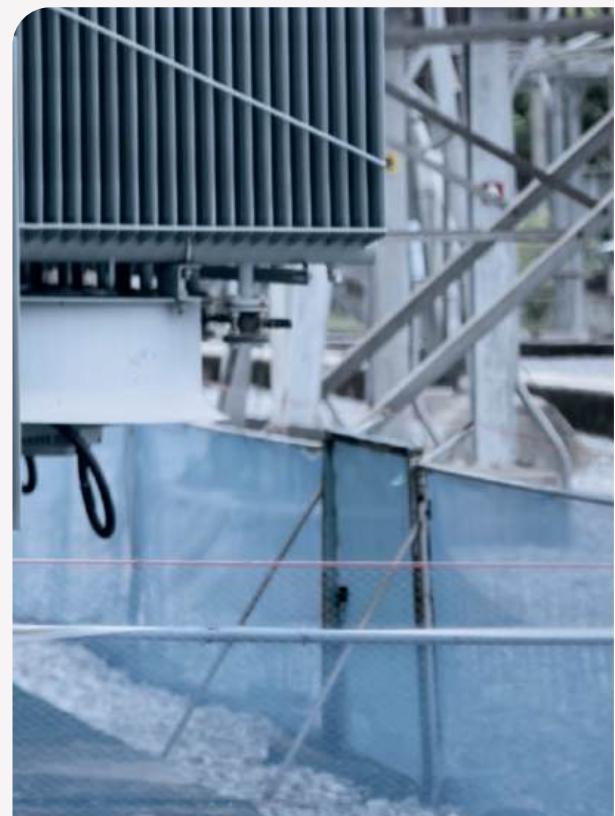
By partnering with us, you not only secure the safety and reliability of your electrical infrastructure but also guarantee full compliance with the very latest industry standards and regulations. Consider us your proactive partner in compliance and uptime, ensuring your assets deliver power without fail.





COMA Contracts

Hardtech provides comprehensive Control, Operation & Maintenance Agreements (COMA) for private network owners, ensuring ongoing safety, reliability and compliance of HV assets through planned maintenance, fault response and 24/7 authorised coverage.



HV/LV
All equipment
and testing

COMA
Agreements

Live
Transformer
Sampling &
Filtration

HV/LV
Maintenance
& Shutdown

Power
Factor
Correction
Servicing

Partial
Discharge
Testing

Generator
Connection,
Hire, Testing
& Repairs

Generator
Service

Black Building
& Load Bank
Testing

Maintenance Services

Generator
Sampling &
Filtration

24-Hour
Emergency
Call-Out

Power Factor
Correction
Installation

Thermal
Imaging

Fault
Finding

Protection
Study

HVO Fuel
Transition



Contingency
Plans

UPS
Service



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HVO – Embark on your sustainable journey

- 
- 
- Reduce up to 90% of CO2 emissions compared to fossil fuels
 - A “Drop-in” White or Red Diesel Replacement (meets N 15940 standard)
 - Superior Storage Life and Stability - up to 10 years (FAME-free, high oxidation stability = ‘resistance’ to diesel bug)
 - Higher Cetane Number = cleaner, more complete and efficient combustion compared to fossil fuel
 - Sustainable Sourcing - made through hydrotreatment, using certified sustainable raw materials and waste feedstocks, such as used cooking oils (UCO) and animal fats.





How sustainable is HVO really - and what's the controversy about?

Genuine waste-based HVO can reduce lifecycle CO₂ emissions by up to 90% compared to fossil diesel.

However, recent investigations have revealed that some HVO may use mislabelled palm oil or non-waste feedstocks, raising sustainability concerns. Buyers should ensure their supplier provides ISCC or RED II certification and full feedstock traceability.

How does switching to HVO benefit our business and sustainability goals?

Switching to HVO (Hydrotreated Vegetable Oil) can cut lifecycle CO₂ emissions by up to 90% compared to fossil diesel, helping businesses meet ESG, Scope 1, and Scope 3 targets.

It also improves local air quality (lower NO_x and particulates) and requires no changes to vehicles or fuel infrastructure, making it one of the simplest decarbonisation steps available.

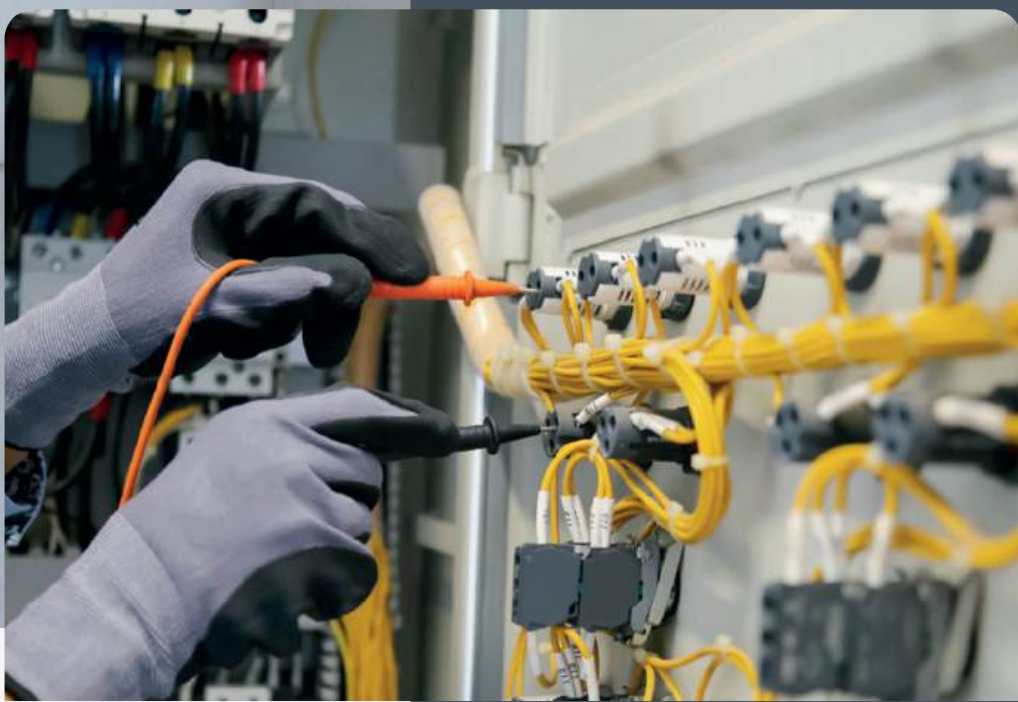
Hardtech®

Emergency Response

For our COMA clients, we provide a 24/7, 365-day standby and emergency response service, ensuring uninterrupted support whenever you need it.

Our team of fully approved high-voltage specialists/SAPs is always on call, ready to swiftly diagnose and resolve faults upon request.

With our combination of rapid response times and expert problem-solving, we offer complete peace of mind, knowing your HV infrastructure is protected around the clock, ensuring your assets deliver power without fail.





Trust the
outcome™



A photograph of high-voltage electrical equipment, including several large insulators and metal cabinets, set against a clear blue sky. The equipment is mounted on a concrete base. The image is used as a background for a contact page.

CONTACT...

Hardtech[®]

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