



Power Networks and Connections



Innovate

at every

opportunity.

About Us

Enerveo is one of the largest contracting businesses in the UK, offering a broad scope of services including high voltage (HV), mechanical and electrical, electrical vehicle infrastructure installation, test, and inspection services, as well as street lighting.

We have trusted long-term relationships with some of the UK's most energy dependent customers. We are leaders in engineering solutions, harnessing our experience of working on voltages typically up to 132kV for distribution and 275kV and 400kV for our transmission clients, increasing resilience and improving efficiency.

Our project delivery is underpinned by our focus on rigorous safety processes, our comprehensive geographical footprint and our unrivalled technical expertise, covering small to large value projects, enabling us to deliver first-in-class solutions. We are an accredited Independent Connections Provider (ICP). This, coupled with our ex-Distribution Network Operator (DNO) heritage and history of engineering excellence, enables us to address strategic and 'street level' challenges, offering an approach that many others can't.

The health and safety of our people, the infrastructure we deliver and the communities we serve is paramount. That's why we have built a culture where safety comes first and we continually work towards reducing risks and protecting everyone involved throughout the lifecycle of a project and beyond.

Whether you operate a single HV transformer or are installing a complex network, we work nationally across all market sectors to design, build, operate and maintain your HV infrastructure, improving resilience and keeping critical assets operating effectively.

Our every day is driven by our values.



Renew and build for a better future



Enerveo, where we are all welcome



Safety for all. It's non-negotiable



Every day, quality drives us forward



Together we grow and prosper



Our Services

We offer a full turnkey solution for the Power Networks & Connections market, including:



Design



ICP



HV engineering



Digital asset monitoring



Refurbishment



Maintenance



Cabling

Our Sectors



Healthcare



New Sector Grid Connections



Utilities



Data centres



Defence



Electric vehicles



Petrochemical



Distribution networks



Construction



Renewable generation

- Storage
- Solar
- Bio
- Wind



Our Experience

The UK has an ageing High Voltage (HV) network, with which comes a growing threat to electricity supply and energy inefficiencies. As an accredited ICP for the National Electricity Registration Scheme, we undertake design and installation and upgrade of electricity supply connections for DNOs and Independent DNO (IDNO) HV networks.

In addition, we can provide a full EPC HV design, build, operate and maintain service:

HV Design and Build

Our team of dedicated HV designers use the latest design software and work closely with our clients, engineers and other stakeholders on design deliverables, including:

- › BIM Model – Clash Detection – Off-site Planning
- › Drawings
- › Cable design
- › Calculations
- › ICP Point of connection design & deliverables
- › Route proving
- › Technical Submittals
- › Statutory Compliance

We also have a national team of engineers delivering HV and EHV cabling services. Our specialists are accustomed to the challenging environment they work in. Where necessary, we use innovative techniques and solutions to reduce environmental impact and increase efficiency, such as cable plough installation and horizontal directional drilling.

Operate and Maintain

Our team of qualified HV experts delivers first-class maintenance, ensuring over 1,300 private HV networks are compliant and operate effectively. As an appointed HV maintenance provider, we provide continuous solutions that include resilience assessment.

We support HV network safety and resilience with 24-hour emergency response. We are at the heart of business continuity, connecting even remote wind farms to the network. Reinforced by a control centre, we have operational control of IDNO and private HV networks, using the latest Electricity Network Management and Control (ENMAC) software.

At Enerveo, we support our clients' energy assets by providing an asset management strategy, criticality modelling of assets and components, designs for the future and a whole life approach.

Asset Stewardship

Asset Stewardship is a coherent approach to understanding, managing, and optimising energy assets for our clients' current and future needs. It involves a systematic and coordinated set of activities and practices that aim to deliver the following benefits:

- › Increased efficiency and performance of assets
- › Compliance with health, safety, and environment regulations
- › Reduced carbon footprint
- › Reduced reactive maintenance costs
- › Extended and optimised asset lifecycles and reduced whole lifecycle costs
- › Availability of data to fully support asset management decisions

All of the above lead to the overall goal of ensuring energy resilience and reliability whilst achieving sustainability goals.

What we do...

Extra high voltage



POWER STATION
Transmitted around the country
at 275,000 or 400,000 volts



Transmission

High voltage



Renewables
Generation



Large sub-station
converts to
33,000 volts



Grid supply point
converts to
132,000 volts



Large Private
HV Networks



HV Distribution

HV Distribution

Low voltage

Secondary sub-station
converts to 415/230 volts



Spotlight on...

Stronelairg

Client: SSE Generation Development

Value: £8.55M

Scope of works

The project was divided into six main sections:

1. On site 33kV electrical infrastructure design, procurement, delivery, installation, testing and commissioning
 - › Installation of cables between the switch room, turbines and met mast/LIDAR
 - › Termination and testing of all cables between the switch room and turbines
2. 132kV Grid Connection construction contract (via Scottish and Southern Electricity Networks)
3. Civil and building infrastructure design and construction work, which included but was not limited to;
 - › Construction of foundations for 66 No. Wind Turbine Generators (WTGs)
 - › Construction of foundations for 1 No. Met Mast and 1 No. LIDAR
 - › Construction of new access and upgrading of existing tracks and hardstanding areas, with associated drainage works, required to accommodate delivery of all plant and material for the erection and maintenance of the WTGs over the life of the facility.
 - › One operations building and associated compound for communications and welfare for the life of the facility.
4. A substation building and associated platform and foundations
5. WTG design, manufacture, delivery, erection, testing and commissioning
6. Telecommunications work

Octopus Solar Parks

Client: Octopus Renewables

Scope of works

Planned and remedial maintenance of a national portfolio of 78 sites, including:

- › Full Coma agreement to control and operate all HV infrastructure
- › Remedial attendance within 4-hour national response window to address faults and alarms
- › Scheduled preventative maintenance
- › Protection testing oil sampling inspection shutdown and invasive maintenance routines
- › Non-invasive critical asset maintenance regime including oil sniffing and thermal imaging and partial discharge monitoring at source points as routine functions
- › Oil analysis including breakdown potential and acidic contamination

Staffed by our direct workforce including Senior Authorised Engineers Technicians and Fitters in each of our seven regions.

Fair Isle Renewables

Client: CHAP, FIEC

Value: £1.4M

Scope of works

Enerveo was responsible for the following detailed design, supply, delivery to site, and installation of:

- › HV switchgear and transformers
- › HV and LV cable and terminations
- › HV and LV earth electrode systems
- › LV control and protection equipment
- › Fibre optic network
- › Energy storage system
- › PV systems
- › User interface system
- › Consumer installations and wind heating control system

Fair Isle's new renewable energy system replaces polluting diesel generators and has allowed islanders to use electricity round the clock for the first time.



Enerveo.

Where we are

all welcome.

Our People

Our vision is to be an employer that attracts, develops and retains a sustainable pipeline of highly engaged and well-trained employees.

Our guiding principles help build our teams, cultivate careers and provide opportunities for everyone. We unlock potential in our people by giving them access to programmes that support their growth and build their careers.

We work in collaboration with our clients to create long-term value, whilst taking pride in representing our business and the communities where we work and live. We take the time to understand the challenges our clients face, providing a bespoke solution that meets our clients' needs. In addition, Enerveo boasts an experienced, nationwide team of electrical engineers.

We place a strong focus on pre-construction activities to ensure full delivery planning is in place before we arrive on site. We achieve this by facilitating and challenging procurement and build methodology decisions early in the process, to mitigate risk and avoid failure.

We are empowered to think differently, challenge the status quo, innovate at every opportunity and deliver projects with purpose.

Safety

The health and safety of our people, the infrastructure we deliver and the people and communities we serve is paramount. That's why we have built a culture where safety comes first and continually work towards reducing risks and protecting everyone involved throughout the lifecycle of a project and beyond.

It's a no-compromise approach to safety that is second nature throughout our business.

We put the safety of our people and the workplace environment first, making sure everyone gets home safe.

- ▶ We ensure the safety, quality and integrity of our customers' infrastructure
- ▶ Our project delivery is underpinned by our focus on rigorous safety processes and our unrivalled technical expertise
- ▶ It is our duty to uphold the highest standards and to deliver a world class service
- ▶ If it's not safe, we don't do it

Sustainability

Our teams are driven to innovate, renew and build for a better future. It enables us to meet those challenges, unlock shared value for both our business and society and help our customers advance towards a net-zero future.

We work to accelerate society towards Net Zero

- ▶ We are mindful of our critical role and honour the responsibility we have in doing so
- ▶ We adopt an end-to-end approach to innovation and collaboration to better our industry
- ▶ We invest in innovation and technologies to create social impact
- ▶ Our approach enables us to power communities more efficiently and sustainably
- ▶ We harness our engineering experience and heritage gained over the years to shape our future
- ▶ We are forward facing. We act with pace and vigour





5 core service lines:
Infrastructure Solutions
Highways Electrical
Power Networks & Connections
Process Industries
Public Transport Infrastructure



1m street lights
maintained by Enerveo.
We are the largest maintainer of
street lights in the UK.



170 apprentices in our
business – a demonstration of our
commitment to nurturing young talent



Zero.
We are committed to helping our
customers and society accelerate
towards a net carbon zero future.
Towards a better future. For all.

Contact us

If you'd like to learn more about how
Enerveo can help your business, get
in touch:

E: enquiries@enerveo.com

W: www.enerveo.com

ENERVEO

Enerveo is a trading name of Enerveo Limited.

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