



part of **mitie**

power & grid

Network connections — tailored around you.

Design, connect and manage high
voltage networks with ESM Power.

01 INTRODUCTION

Powering connections: safely, securely, and economically

ESM Power is a NERS (National Electricity Registration Scheme) accredited independent connections provider (ICP) that designs, builds and maintains electrical infrastructure, up to 132kV.

For over 20 years we've supported a range of private and public sector clients by delivering safe and secure solutions in the most cost-effective way possible. From design and project management through to repair and replacement of networks and utility connections, you can be sure our team will operate to the highest standard.

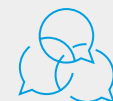
Together with G2 Energy, Rock Power Connections and Custom Solar, we make up Mitie Power & Grid. This powerful team combines deep domain knowledge, specialist experience and a national network of leading resources and capabilities. We can help you reduce emissions, increase efficiency and secure your energy supplies for a sustainable, decarbonised future.



350+ sites supported



Over 20 years of experience



Dedicated project teams



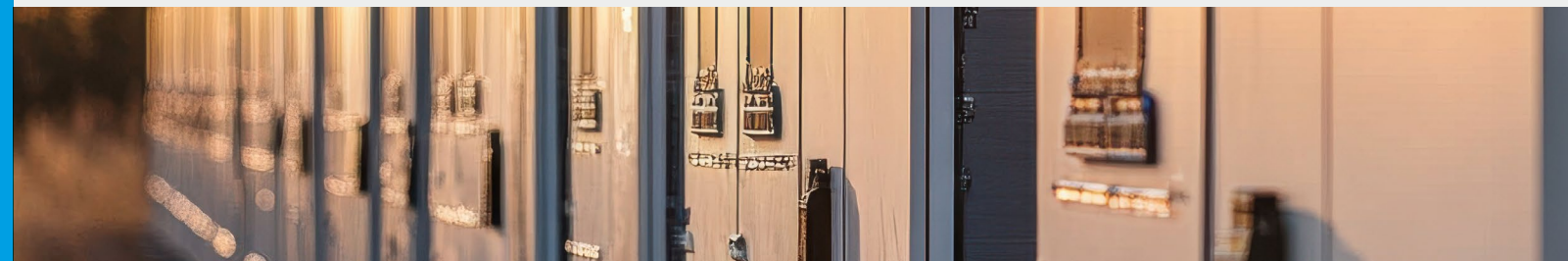
In-house design consultancy



Over 500MW of projects



Strong accreditations & certifications including Achilles UVDB qualified





02 WHAT WE DO

Expert support to keep you connected

By your side from application to installation

Whether you have an industrial or commercial site, solar farm, battery energy storage system or data centre, we can help you get the most out of your networks while reducing emissions and costs.

We use our decades of experience to connect our clients to the grid safely, securely and economically, working with them, hand in hand, from design and installation to operations and maintenance.

In partnership with Mitie Power & Grid, and as part of its broader facilities management offering, we're able to deliver custom solutions for projects of all sizes across both public and private networks.

Applications & estimations

Applying for a new connection can be complicated. Let us do the work for you. We can handle the application process and deal with local distributors directly, so you don't have to.

It's also important to have a clear view of costs and potential issues, which is why we'll provide an in-depth cost estimate to ensure you get the most economical connection available to meet your needs.

Electrical design consultancy

Good design ensures you get the most efficient and economical use of your network, even in confined spaces. Our team consists largely of Electrical Engineers from the electricity distribution and transmission industry who are ready to support you with advice at every stage of your project – from conceptualisation right through to completion.

Design & installation

Design is the most critical stage in creating your safe working environment and our designs are specifically tailored to your requirements. Our installation team is highly experienced in delivering complete turnkey solutions for multi-utility connections throughout the UK.

To avoid disruptions and for smooth project delivery, our in-house design team are specialists in providing advice, quotations and designs for electrical and multi-utility infrastructure projects.

Our expertise covers:

- New installations
- New supply connections
- Existing network upgrades
- Asset replacement programmes



Networks

Maintaining efficient high-voltage networks is key to reducing your reliance on fossil fuels and driving decarbonisation. We are committed to helping you achieve your sustainability goals and our team of highly-skilled Senior Authorised Persons (SAPs) and Electrical Engineers expertly manage and maintain high-voltage networks up to 132kV.

Our service includes:

- Providing you with 24/7/365 support
- Acting as your authorised person
- Minimising unnecessary costs
- Delivering onsite training

Network management, asset replacement, and emergency response

Our engineers look after over 350 sites ensuring high-voltage networks are safely and efficiently operated and maintained. To keep your renewable energy flowing, we can also help you develop a replacement plan as key assets approach their end of service life.

03 OUR CLIENTS

Enabling **renewable energy** across the UK

ESM Power supports clients in multiple sectors, including:

Commercial | Critical Environments | Education | Healthcare | Industrial | Manufacturing | Utilities

Here are a few highlights from our expansive client base:

Replacing an old transformer to reduce carbon emissions and costs

A longstanding UK flour milling company wanted to proactively replace its 1970's transformer, to avoid any unnecessary downtime and the potential loss of production as it became less reliable. We provided a full turnkey solution – replacing the existing transformer with a new, more efficient 1500 kVA amorphous energy-efficient equivalent.

This promised:

- An annual reduced carbon footprint of 11.9 tonnes
- Estimated annual cost savings of up to £16,269
- A 3.5-year investment payback

Connecting enough clean energy to power 12,000 homes from solar power

As part of our work supporting UK solar farms, we helped connect a 27MW solar farm to the grid. Our work included civil and electrical design, along with the installation of substations, switchboards, and transformers. The solar farm now generates enough electricity to power 12,000 homes and saves 20,000 tonnes of CO₂ annually.

“

We have used ESM Power's services for multiple solar connections including West Raynham, one of the UK's largest solar parks. My trusted relationship with ESM Power means I will continue to use their intuitive service on my current and future work.”

CEO of Solar Park Project Contractor

Delivering a 50MW Battery Energy Storage System project for a leading energy provider

Reliable, secure and decarbonised power systems need battery storage sites to keep up with periods of high demand. We supported the conversion of a decommissioned gas-fired power station into a battery storage facility to support 43 onshore wind farms across Lincolnshire. It has the capacity to supply the equivalent of a full days' energy consumption to 11,000 households.

Installing a high-voltage ring upgrade and replacing a transformer at NHS Hospital

In collaboration with the principal designer, we were commissioned to install a 1.2km single-circuit 11kV ring and construct a new DNO substation for a local NHS Hospital. The upgrade had a significant impact on the hospital's energy efficiency and carbon emissions, reducing CO₂ output by up to 60%.





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We're ready to connect with you

If you want to learn more about ESM Power and how we can help you lower costs, improve energy efficiency and reduce carbon emissions at your site, get in touch today.

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