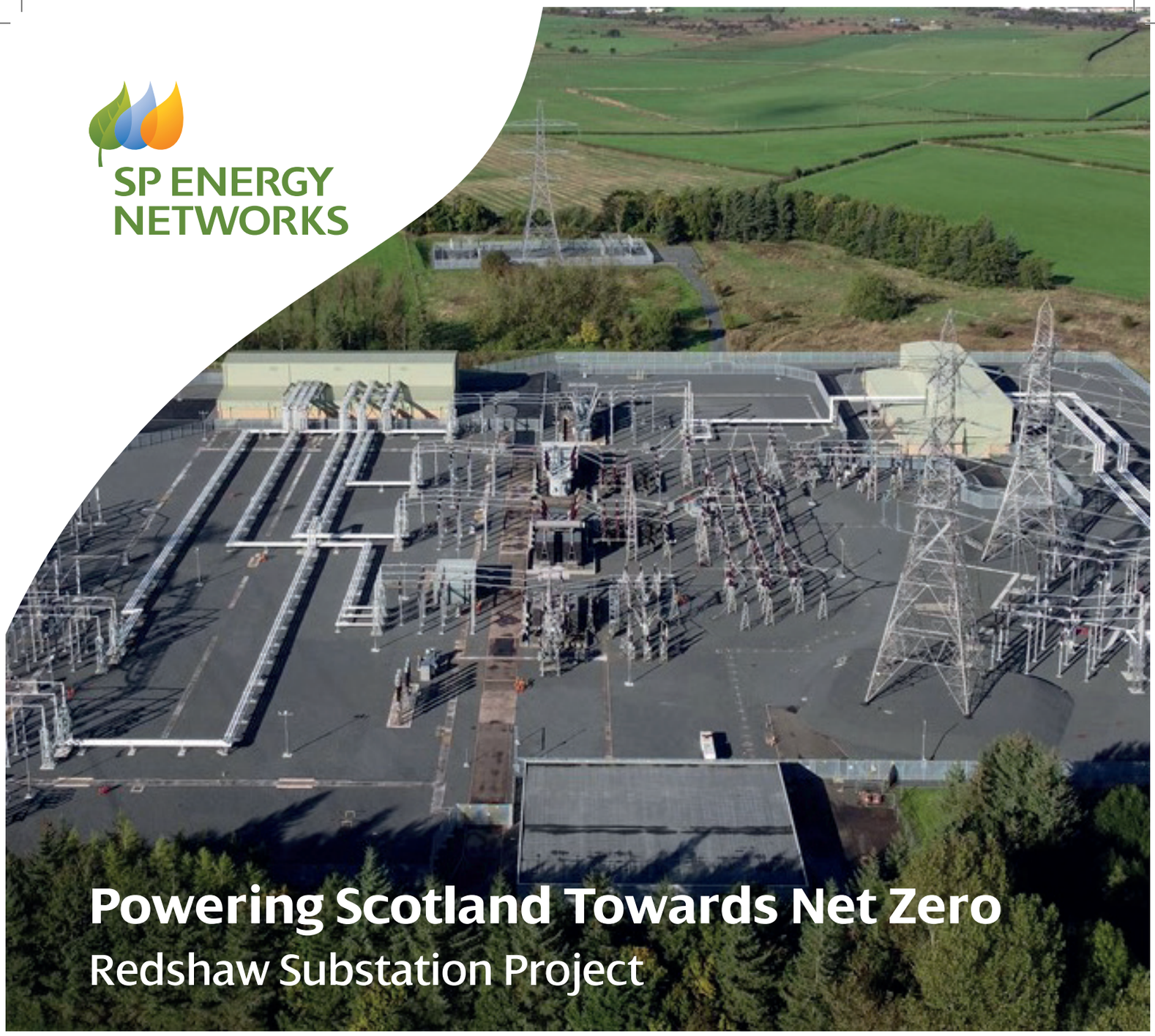
SP ENERGY NETWORKS



Powering Scotland Towards Net Zero

Redshaw Substation Project

Scotland is a world leader in the fight against climate change.

Our country has a target of Net Zero greenhouse gas emissions by 2045 – meaning that Scotland's contribution to climate change will end, definitively, in one generation.

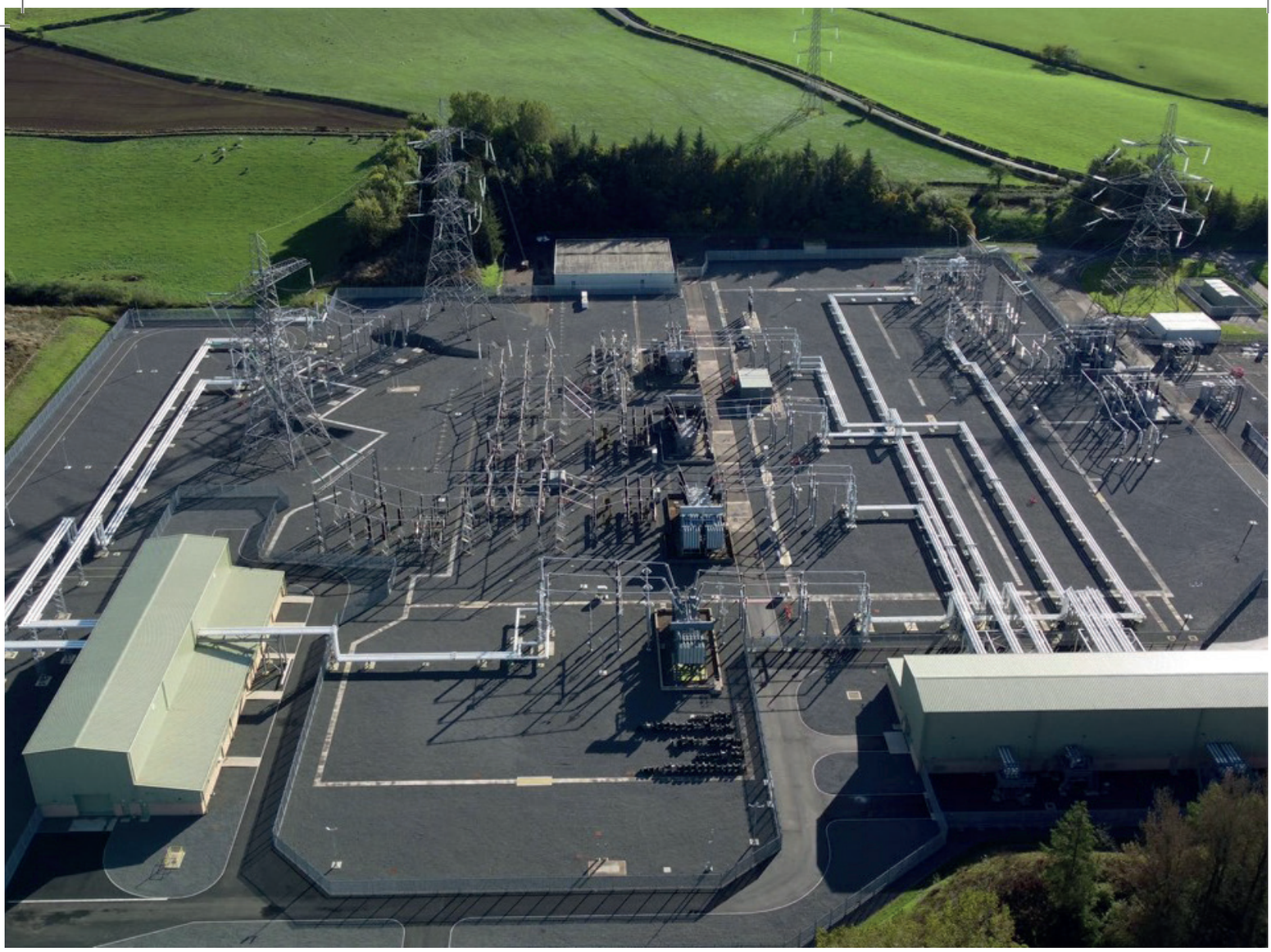
We are in the middle of a transformation, with the energy we use increasingly coming from greener, cleaner sources, as many new renewable generators replace older fossil-fuelled power stations.

At the same time, demand for electricity will grow rapidly over the next few years, with electric vehicles replacing petrol and diesel, and increased electrification of heating, industry and transport networks.

This huge change means we need to upgrade Scotland's electricity transmission network, so we can get this increasing amount of energy from where it is produced to the homes, businesses, hospitals and public services that need it.

To help make this happen we need to build a new substation at Redshaw in South Lanarkshire, close to the existing 400kV overhead transmission line, to strengthen the electricity transmission network and guarantee secure energy supplies for the future.

This leaflet tells you about our plans, where to find more information, and how you can give us your views.



Why is this substation needed?

Much of the electricity transmission network in Scotland was first built in the 1920s. Since then it has grown and evolved to meet industrial needs and serve the expanding population, but the network in the south of Scotland will soon be at full capacity – unable to accommodate all the clean, green renewable energy we will all need in future.

Around 2GW (gigawatts) of new renewable energy is expected to connect to the transmission network in this area in future.

A new high-voltage substation at Redshaw is essential to create sufficient extra network capacity. It will also strengthen the regional power network so it can cope with any unexpected faults in future.

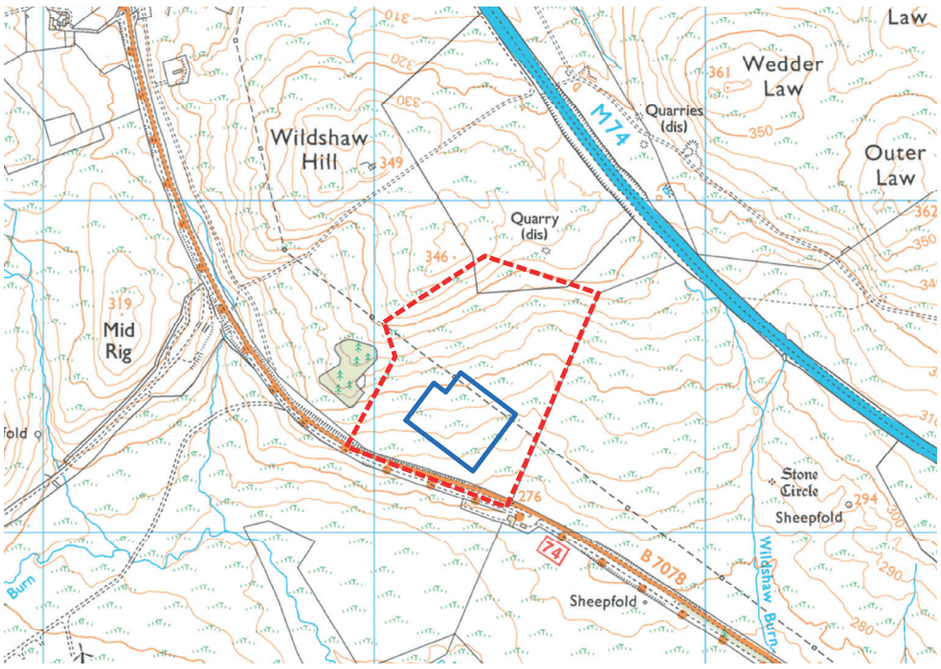
What does the project involve?

The new Redshaw substation will include:

- A new 400kV Gas Insulated Switchgear (GIS) substation building, which will house gas insulated electrical switchgear and plant (85m x 45m)
- A second GIS substation building which will house gas insulated electrical switchgear and plant (30 x 20m)
- A small distribution substation building to provide ancillary power, lighting, heating and ventilation
- 4 x 360MVA transformers
- A new permanent access track from the local public road to the substation compound
- Internal access roads and vehicle parking
- A new 3m high steel palisade security fence and internal fencing around the live compound

The potential site layout will be similar to SPEN's Kilmarnock South substation, pictured here.

A new overhead line to Redshaw substation from Glenmuckloch will also be required, but this will be subject to a separate consultation in future.



Before selecting Redshaw as the proposed site for the new substation, SPEN worked with environmental consultants to identify a number of possible locations close to the existing 400kV overhead line and able to accommodate a new overhead line connection from Glenmuckloch in future.

We began by identifying search areas within which a substation could be located. We then considered factors including the landscape, land use, forestry, biodiversity, peatland, flood risk and archaeology, to identify potential sites within those search areas.

We then appraised each potential site and concluded that the Redshaw site (shown above) had the least environmental impact, as well as being the most suitable from a technical and economic perspective. The site is near the former Red Moss hotel, on the opposite side of the B7078 road and next to the existing 400kV overhead line.

You can find full details about the site selection process in our document ***Redshaw 400kV Substation – Substation Siting Study***, which is on our project website at www.spenergynetworks.co.uk/pages/redshaw_400kv_substation

We want to hear your views

Our public consultation runs from Monday 05 June to Friday 30 June 2023.

SPEN attaches great importance to the effect our work may have on the environment and local communities. We want to hear what local people think about our plans, to help us develop the project in the best way.

Please come along to one of our public exhibitions, where you can see our plans in more detail and ask questions of the project team.

Tuesday 20th June, 2pm to 7.30pm	The Old Schoolhouse, Abington ML12 6SD	www.theoldschoolhouse.net
Wednesday 21st June, 2pm to 7.30pm	St Brides Centre, Douglas ML11 0PT	www.stbridescentre.co.uk
Thursday 22nd June, 2pm to 7.30pm	Crawfordjohn Hall, Crawfordjohn ML12 6SR	www.crawfordjohnhall.org

All project documents are also on our project website, where you can also fill in an online feedback form. If you don't have internet access, you can call our Freephone number to ask any questions you may have, or request a personal call back from a member of the project team. We can also send you a paper feedback form and a Freepost envelope so you can complete it and return it to us free of charge.

SP ENERGY NETWORKS

How to contact us

You can email us at:

Email: redshaw@communityrelations.co.uk

You can call us free of charge on:

Freephone: 0800 021 7890

You can write to us free of charge at:

Freepost: FREEPOST REDSHAW SUBSTATION

You can find more information about the project on our website **www.spenergynetworks.co.uk/pages/redshaw_400kv_substation**

What happens next?

Following the first round of consultation we will develop a detailed design for the substation layout, including locations for buildings, access routes and working areas. We will publish a report summarising the feedback received and how this has influenced our proposals.

We will carry out a detailed Environmental Impact Assessment, and hold further consultation, before we finalise our proposals and submit a planning application under the Town and Country Planning (Scotland) Act 1997 (as amended) to South Lanarkshire Council.