



Clydesmill Substation Extension and Overhead Line Uprating

Public Consultation

Scotland is producing more clean, green energy than ever before, and we need to strengthen the transmission network so we can get it to the homes, schools and businesses that need it.

The Scottish and UK Governments are committed to increasing the use of renewable energy and have targets to achieve net-zero greenhouse gas emission by 2045 in Scotland and 2050 in the UK.

To help make this happen we need to extend Clydesmill substation, in Cambuslang, and increase the voltage of an existing overhead line between Clydesmill and Denny North substation from 275kV (275,000 volts) to 400kV. This will help strengthen the electricity transmission network and guarantee secure energy supplies for the future.

This leaflet tells you about the plans, where to find more information, and how you can share your views.

Why do we need to extend Clydesmill substation?

Much of the electricity transmission network in Scotland is between 50 and 100 years old. It has grown and evolved to meet industrial needs and serve the expanding population, but the network in central Scotland will soon be at full capacity – unable to accommodate all the clean, green renewable energy we will all need in future.

More onshore and offshore wind farms, solar energy and battery storage are connecting to the power network, and we need to increase the voltage of the overhead transmission lines in this area from 275kV to 400kV, in keeping with the wider electricity transmission network, to create more capacity so we can get the energy from where it's produced to where it's needed.

Extending Clydesmill substation to accommodate new 400kV transformers and equipment will allow the voltage of a circuit on the existing overhead line between Clydesmill and Denny North substation to increase from 275kV to 400kV.

This will contribute to connecting Clydesmill to the planned new Kincardine North substation to ensure greater security of electricity supply in future for the surrounding area, including Easterhouse, Clydesmill, East Kilbride, and Newarthill.

The Clydesmill substation extension will also facilitate the connection of Boom Power's proposed new Aitkenhead Farm Battery Energy Storage System (BESS) development near Uddingston.

What will happen at Clydesmill substation?

The proposed extension to the existing Clydesmill 275kV substation will have similar equipment to SPEN's Kilmarnock South substation, pictured on the front of this leaflet.

This will include:

- 2 x 400/275kV 1000MVA inter-bus transformers
- 2 x 400kV air-insulated switchgear circuit breakers
- 1 x 400kV bus section circuit breaker
- Air-insulated switchgear and busbar connections
- 1 x 400/275kV 500 MVA autotransformer
- 1 x 400kV disconnecter
- 1 x 275kV circuit breaker and associated disconnecter
- Vehicle access and parking
- Earthworks and drainage improvements
- A new 3m high, steel palisade fence and internal fencing around the live compound to ensure safety and security.

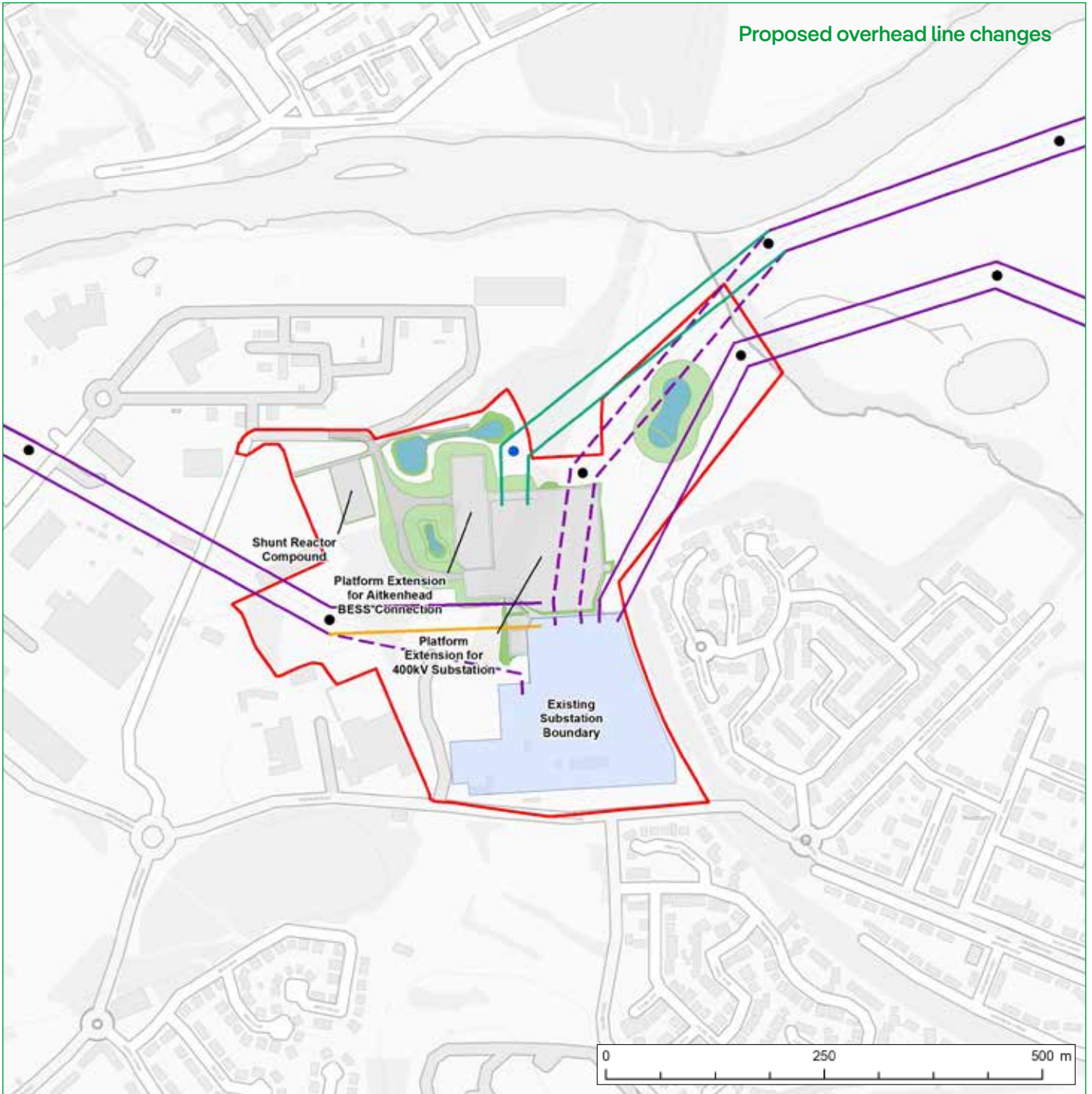
Overhead line changes

We will need to uprate one of the circuits – the east side – of the existing ZD overhead line between Clydesmill and Denny North substation from 275kV to 400kV to increase network capacity and ensure greater security of energy supply for the local area in future.
















We will need to make changes to two existing overhead lines, where they enter Clydesmill and Denny North substations. At Clydesmill we will need to install one new tower and a section of overhead line to the north of the site, to replace one tower and a short section of overhead line. South of the site we will need to install one new tower and remove two existing towers.

The works at Denny North Substation will include two new towers and two new spans of overhead line.

The proposed changes at Clydesmill are shown on the plan in this leaflet. A more detailed plan is also available on the project website.



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KEY					
	Site Boundary		Proposed Diversion		Footpath
Tower Location					Platform
	Existing Tower		Proposed Upgraded		Retaining Wall
	New Tower	Proposed Layout			Roads
SPT Overhead Transmission Network					Suds / Swale
	Retained		Earthworks fill		Existing_Substation_Boundary

We want to hear your views

Our public consultation runs from Monday 3 February to Friday 28 February 2025.

We are conscious of 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 our public exhibition where you can see our plans in more detail, meet the project team and ask any questions you may have:

**Friday 7 February 2025, 2pm to 7pm:
Cambuslang Institute, 37 Greenlees Road,
Cambuslang, Glasgow, G72 8JE**

All project documents are also on the project website, where you will also find an online feedback form. If you don't have internet access, you can call the 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 free of charge.



How to contact us

You can email us at:

Email: clydesmill@communityrelations.co.uk

You can call us **free of charge** on:

Freephone: 0800 470 2376

You can write to us **free of charge** at:

Freepost: FREEPOST SPEN DWUP

You can find more information about the project on our website:

<https://www.spenergynetworks.co.uk/dwup>

What happens next?

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

We will carry out a detailed Environmental Impact Assessment 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.

We will also need to submit applications to the Scottish Government Energy Consents Unit, under Section 37 of the Electricity Act 1989, for the proposed changes to the overhead lines and uprating in voltage.

At this stage, your comments are not representations to the planning authorities. It is when we submit applications for development consent in the future that you will be able to make formal representations to the planning authorities.

