



# Tealing to Kincardine Upgrade Project: Mossmorran Substation Extension

## Public Consultation

SP Energy Networks is upgrading the grid in central and southern Scotland. With total electricity demand set to double by 2050, we need a grid that's ready to meet future energy needs, while boosting the nation's energy security for generations to come.

To help make this happen we need to extend our Mossmorran substation, near Cowdenbeath, and increase the voltage of existing overhead lines in Fife. This will help strengthen the electricity transmission network and guarantee secure energy supplies for the future.

In 2024 we consulted local people on our initial proposals. We have now refined our plans and are holding a further public consultation so local people can give us their views.

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

The public consultation runs from Monday 22 June to Friday 17 July 2026.

## Why do we need to extend Mossmorran 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 to serve the expanding population, but the network in central Scotland is nearing full capacity – while our need for clean, green renewable energy continues to grow.

More wind farms, solar energy and battery storage sites are connecting to the power network. This means we need to increase the voltage of the overhead transmission lines in this area from 275,000 volts (275kV) to 400,000 volts (400kV), to create more capacity so we can get the energy from where it's produced to where it's needed.

In order to increase the voltage and network capacity we need to replace the two existing 275kV transformers at Mossmorran substation – which are now 64 and 43 years old – with four new 400kV transformers.

We need to extend the substation site to install the new ones and connect them to the network. This is because the old transformers are essential to keep the lights on and the power flowing while we put the new substation in place. We will then switch off the old transformers.

## Our updated plans for Mossmorran substation

The proposed extension is to the north-west of the existing substation, near the existing Mossmorran Natural Gas Liquids Plant, the Fife Ethylene Plant and the Little Raith Wind Farm. Access is from the A909 using the existing road through the plants.

The expanded substation will have similar equipment to SP Energy Networks' Kilmarnock South substation, pictured on the front of this leaflet, including:

- A new 400kV SF6-free Gas Insulated Switchgear (GIS) substation building, which will house electrical switchgear, plant and ancillary equipment
- Four 400/132kV transformers
- SF6-free GIS double busbar to connect the switchgear to each circuit
- Space for further transformers to be installed in the future
- Internal access roads and vehicle parking
- Drainage and mitigation (for example, landscaping and water storage)
- A new steel palisade fence and internal fencing around the live compound to ensure safety and security.

Since our previous consultations in 2024, we have refined our plans to include a detailed sustainable drainage system (SuDS), including a new pond basin that will collect rainwater and provide wildlife habitat.

We have also extended the 'red line boundary' for the site to include an area within which some land will be used for storing soil from site construction works on a temporary basis, and also to provide space for flood mitigation works to protect the existing substation and adjacent landowners from flood risk (see layout plan opposite).

We have also prepared a draft illustrative landscape strategy showing where we plan to plant trees and shrubs and manage and enhance existing vegetation during and after construction. You can find this on our project website.

## Overhead line changes

We will need to make minor alterations to the existing overhead lines at Mossmorran to connect them to the expanded substation, as shown on the plan in this leaflet.

At the moment, the overhead lines cross the site for the proposed substation extension. We plan to put up two temporary masts so we can divert the overhead lines away from the site, removing three existing towers (pylons) and allowing us to build the extension.

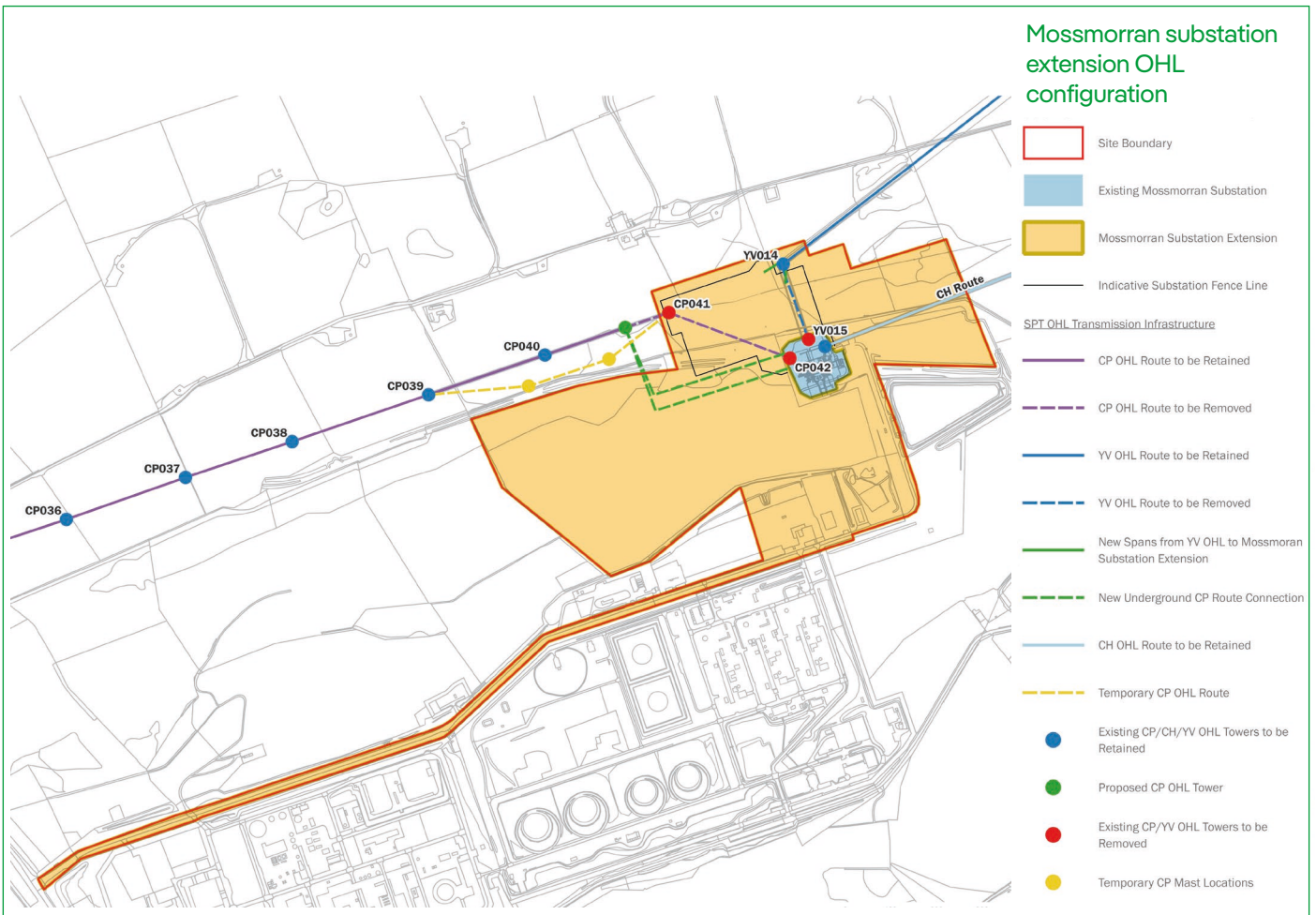
We will then need to put up one new tower to connect the new equipment to the network before removing the temporary masts and line diversion.

## What else is involved in the Tealing to Kincardine Upgrade Project?

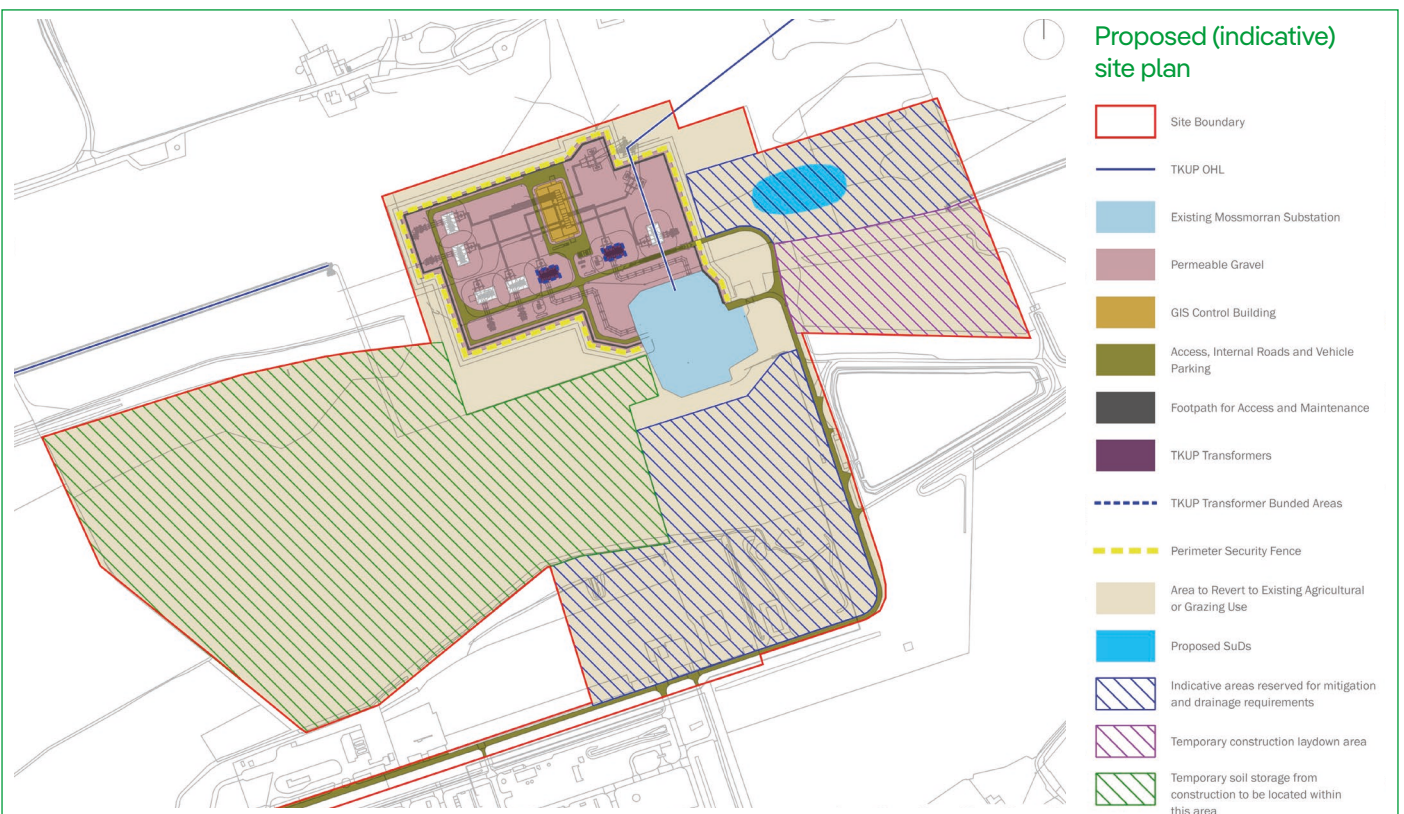
The purpose of the project is to increase the voltage of overhead lines from 275kV to 400kV between Tealing, near Dundee (in the Scottish and Southern Energy Networks area) and Kincardine (in the SP Energy Networks area) to allow more clean, green energy to flow through the network.

To make this happen, we need to extend the substations at Mossmorran, near Cowdenbeath, and Westfield, near Ballingry, and build a new substation at Conland, north of Leslie.

### Mossmorran substation extension OHL configuration



### Proposed (indicative) site plan



## We want to hear your views

Our public consultation runs from Monday 22 June to Friday 17 July 2026.

Consideration for the environment and engaging with our local communities is paramount throughout every project. That's why we want to hear what local people think about our plans; your feedback is invaluable in helping us to shape each project.

Local residents are invited to our community drop-in events, where you can see our plans in more detail, meet the project team and ask any questions you may have:

**Tuesday 23 June, 2pm to 7pm:**

Auchtertool Village Hall, Main Street, Auchtertool  
KY2 5XW

**Wednesday 24 June, 11am to 4pm:**

Crossgates Royal British Legion, 60 Main Street,  
Crossgates, Cowdenbeath KY4 8AW

Information about the project is also on the project website, where an online feedback form will be available during the consultation period.



## How to contact us

You can email us at:

Email: [tkup@communityrelations.co.uk](mailto:tkup@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 TKUP**

You can find more information about the project on our website: <https://www.spenergynetworks.co.uk/pages/tkup.aspx>

If you don't have internet access, you can call the Freephone number 0800 470 2376 to ask any questions you may have or to request a paper feedback form, supplied with a Freepost envelope so you can complete it and return it to us free of charge.

## What happens next?

Following this round of consultation, we will use feedback to inform the final design for the substation layout, landscaping, access and drainage. We will publish a report summarising the feedback received and how this has influenced our proposals, and we will present this information to local people at a final community event.

We will complete a detailed Environmental Impact Assessment, and a report on this will be submitted along with our planning application to Fife Council under the Town and Country Planning (Scotland) Act 1997 (as amended).

The proposed changes to overhead lines, including the increase in voltage, are subject to separate applications to the Scottish Government Energy Consents Unit under Section 37 of the Electricity Act 1989.

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

