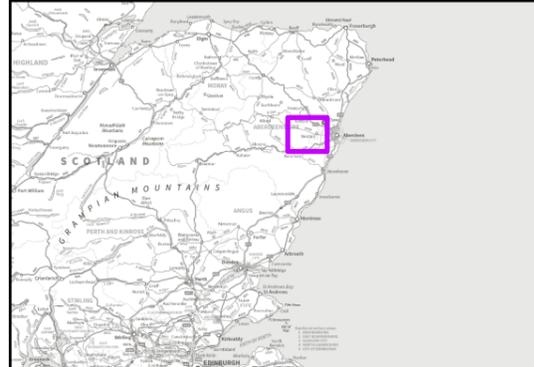


- Alignment**
- Proposed Tower
 - Proposed Alignment
 - Proposed Alignment Limit of Deviation (LoD)*
 - - - Section boundary

Please see project website ssen-transmission.co.uk/TKUP for detailed maps of each section

*LoDs to be finalised for the Section 37 application.



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Project No: LT455
 Project: Kintore to Tealing 400kV Overhead Line
 Title: Proposed Alignment - Section F

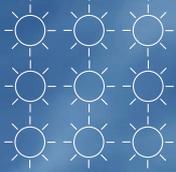
Drawn by: CW Date: 07/02/2025
 Drawing: 3.6

Appendix H – Consultation Feedback Booklet PAC 2



Scottish & Southern
Electricity Networks

TRANSMISSION

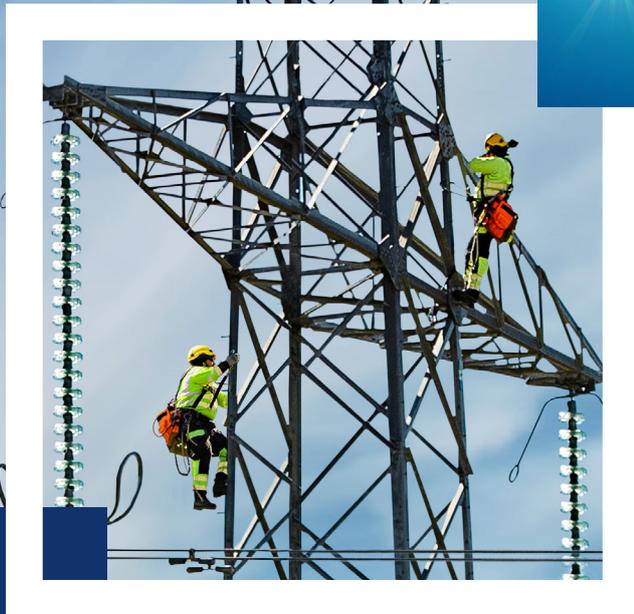


Kintore to Tealing 400kV Overhead Line

Including Emmock and Tealing Section 37 Tie-Ins

Final Pre-Application Consultation
(PAC) Events

February/March 2025



ssen-transmission.co.uk/TKUP

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The events will be taking place on:

Monday 24 February, 2–7pm
Kintore Public Hall, 12 School Road, Kintore, AB51 0UX

Tuesday 25 February, 2–7pm
Echt Hall, Echt, Westhill, AB32 6UL

Wednesday 26 February, 2–7pm
Durris & Crathes Bowling Club, Sunnyside Avenue, Drumoak, AB31 5EF

Thursday 27 February, 2–7pm
Durris Kirkton Hall, Kirkton of Durris, Banchory, AB31 6BP

Monday 3 March, 2–7pm
Drumlithie Village Hall, Station Road, Drumlithie, AB39 3YT

Tuesday 4 March, 1–6pm
Inglis Memorial Hall and Library, High Street, Edzell, Brechin, DD9 7TF

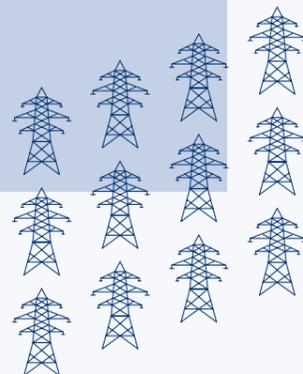
Wednesday 5 March, 2–7pm
Dickson Memorial Hall, Station Road, Laurencekirk, AB30 1BE

Monday 10 March, 2–7pm
Menmuir Hall, Brechin, DD9 7RN

Tuesday 11 March, 2–7pm
Memus Community Hall, Memus, Forfar, DD8 3TY

Wednesday 12 March, 2–7pm
Forfar Reid Hall, Castle Street, Forfar, DD8 3HX

Thursday 13 March, 2–7pm
Tealing Village Hall, Hall Road, Inveraldie, Tealing, DD4 0QW



Powering change together



The time has come to further enhance Scotland’s energy infrastructure, providing power for future generations as we move towards net zero.

The shift to a cleaner, more sustainable future is about more than climate change. It’s about ensuring future generations have the same opportunities to thrive as we have all had.

Countries around the world are investing in their energy infrastructure to support the demands of modern economies and meet net zero targets. The UK is leading the way in building a modern, sustainable energy system for the future.

We all have a part to play

When it comes to net zero, we have to be in it together. The UK and Scottish governments have ambitious net zero targets, and we are playing our part in meeting them.

We work closely with the National Energy System Operator (NESO) to connect vast renewable energy resources—harnessed by solar, wind, hydro and marine generation—to areas of demand across the country. Scotland is playing a big role in meeting this demand, exporting two thirds of power generated in our network.

But there is more to be done. By 2050, the north of Scotland is predicted to contribute over 50GW of low carbon energy to help deliver net zero. Today, our region has around 9GW of renewable generation connected to the network.

At SSEN Transmission, it is our role to build the energy system of the future.

We’re investing over £20 billion into our region’s energy infrastructure this decade, with the potential for this to increase to over £30 billion. This investment will deliver a network capable of meeting 20% of the UK’s Clean Power 2030 target and supporting up to 37,000 jobs, 17,500 of which will be here in Scotland.



Scan the QR code with your smart phone to find out more about how these policies have been assessed and determined.

Who we are

We are responsible for maintaining and investing in the electricity transmission network in the north of Scotland. We are part of SSE plc, one of the world’s leading energy companies with a rich heritage in Scotland that dates back more than 80 years. We are also closely regulated by the GB energy regulator Ofgem, who determines how much revenue we are allowed to earn for constructing, maintaining and renovating our transmission network.

What we do

We manage the electricity network across our region which covers a quarter of the UK’s land mass, crossing some of the country’s most challenging terrain. We connect renewable energy sources to our network in the north of Scotland and then transport it to where it needs to be. From underground/subsea cables and overhead lines to electricity substations, our network keeps your lights on all year round.

Working with you

We understand that the work we do can have an impact on communities. So we are committed to minimising our impacts and maximising all the benefits that our developments can bring to your area. We’re regularly assessed by global sustainability consultancy AccountAbility for how we engage with communities. That means we provide all the information you need to know about our plans and how they will impact communities like yours. The way we consult is also a two-way street. We want to hear people’s views, concerns, or ideas and harness local knowledge so that our work benefits their communities: today and long into the future. You can share your views with us at: ssen-transmission.co.uk/talk-to-us/contact-us

The Pathway to 2030

Building the energy system for the future will require delivery of significant infrastructure over the next few years. In partnership with the UK and Scottish governments, we are committed to meeting our obligation of connecting new, renewable energy to where it's needed by 2030.

Achieving Net Zero

By 2030, both the UK and Scottish governments are targeting an expansion in offshore wind generation of 50GW and 11GW respectively. The Scottish Government has also set ambitious targets for an additional 12GW of onshore wind by 2030.

Across Great Britain, including the north of Scotland, there needs to be a significant increase in the capacity of the onshore electricity transmission infrastructure to deliver these 2030 targets and a pathway to net zero.

Securing our energy future

And it's not just about net zero. It's also about building a homegrown energy system, so that geopolitical turmoil around the world doesn't severely impact the UK and push up energy prices.

The UK Government's British Energy Security Strategy further underlines the need for this infrastructure, setting out plans to accelerate homegrown power for greater energy independence. The strategy aims to reduce the UK's dependence on and price exposure to global gas wholesale markets through the deployment of homegrown low carbon electricity generation supported by robust electricity network infrastructure.

Meeting our 2030 targets

In July 2022, the National Energy System Operator (NESO) published the Pathway to 2030 Holistic Network Design (HND). This set out the blueprint for the onshore and offshore transmission infrastructure that's required to support the forecasted growth in the UK's renewable electricity.

It's an ambitious plan that will help the UK achieve net zero.

What does this mean for the East of Scotland?

The East of Scotland will play a key role in meeting these goals. The extensive studies that informed the NESO's Pathway to 2030 HND confirmed the requirement to increase the power transfer capacity of the onshore corridor from Kintore to Tealing.

This requires a 400kV connection between these sites to enable the significant capability needed to take power from onshore and large scale offshore renewable generation, connecting on the East Coast of Scotland before transporting power to areas of demand.

As part of these plans, we are proposing to build a new 400kV overhead line (OHL) between Kintore and Tealing. This also requires two new 400kV substations to be constructed in Fetteresso Forest (Hurlie) and Tealing (Emmock) which the new OHL will connect into and enable future connections and export routes to areas of demand.

In addition, two of the existing 275kV OHLs out of the existing Tealing substation to Alyth and Westfield require upgrades to 400kV operation and to be connected to the proposed new Emmock 400kV site.

These five projects, collectively are called the Kintore to Tealing 400kV projects, and are critical to enable the delivery of the UK and Scottish Government's targets.

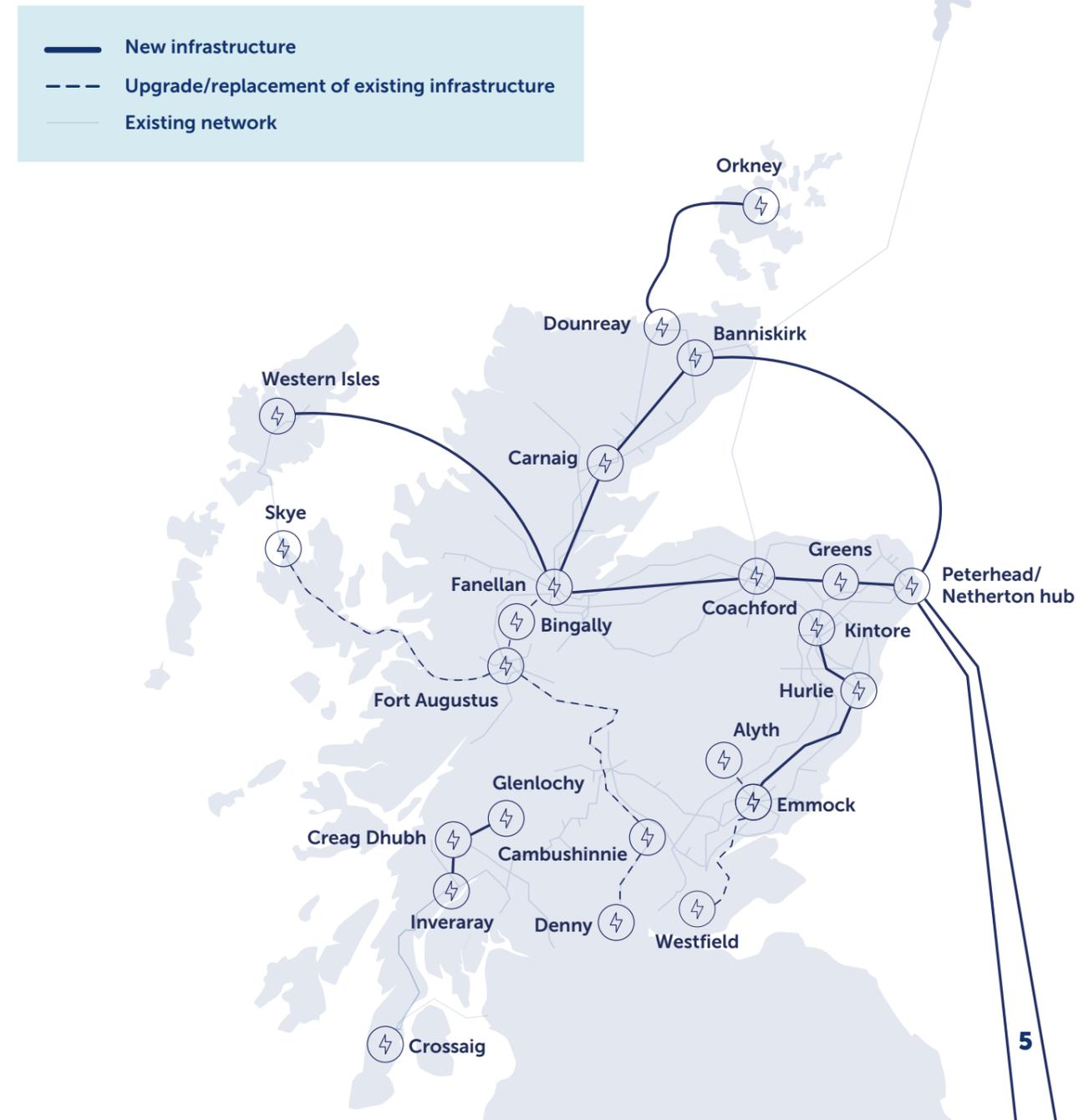
Future network investment requirements

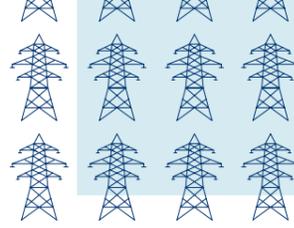
To deliver energy security and net zero, further investment in new low carbon electricity generation and the enabling electricity transmission network infrastructure will be required across Great Britain, including the north of Scotland.

In March 2024, the independent National Energy System Operator (NESO) published its 'Beyond 2030' report, which confirmed the need for several new, replacement and upgraded transmission infrastructure projects in the north of Scotland. In December 2024, Ofgem approved the next phase of regulatory funding to take these projects through the development phase.

These additional investments will soon be subject to extensive public consultation and engagement to help inform their development, with early development activity, consultation and engagement expected to take place within 2025.

Additional regional investments are also likely to be required to deliver the UK Government's Clean Power 2030 ambition. Further details on these will be communicated once the need and scope for these investments has been established.





About the Kintore – Tealing 400kV projects

We are leading on the delivery of critical infrastructure projects to power change in the UK and Scotland. To support the delivery of 2030 offshore wind targets set by the UK and Scottish Governments, and to power local communities, we need to upgrade our existing network. In some key areas, we need to develop entirely new infrastructure.

The Kintore – Tealing 400kV project consists of five key onshore projects comprising of works to develop new infrastructure and upgrade existing infrastructure in both SSEN Transmission and Scottish Power Transmission's areas. Due to the criticality of these works, there is a requirement for accelerated development and delivery to meet the 2030 connection dates.

Kintore – Tealing 400kV OHL connection

This project spans a significant length of the North East of Scotland and will involve the construction of a new 400kV overhead line between new proposed substations near Tealing (Emmock), Fetteresso Forrest (Hurlie) and Kintore (Existing Kintore substation).

The connection will be delivered via an overhead line of steel lattice towers (commonly referred to as pylons) likely to average around 57m in height, with the overhead line spanning a total length of approx. 106km. This is split into two sections:

- Approximately 35km between the 400kV substation currently under construction at Kintore and the proposed new 400kV Hurlie substation.
- Approximately 72km between Hurlie and the proposed new 400kV Emmock substation.

Since the project was first consulted on in May 2023, our project team have been working to refine our proposals, considering feedback from local stakeholders and we are now able to share our Proposed Alignment. This is the alignment option that we will look to take forward to the consent application (Section 37) that will be submitted to the Energy Consents Unit (ECU) of the Scottish Government.

Hurlie 400kV substation

A new 400kV substation, known as Hurlie, is located near the existing substation in Fetteresso Forest to provide a connection for the new proposed Kintore – Tealing 400kV OHL.

The planning application for Hurlie was submitted to Aberdeenshire Council in December 2024 (APP/2024/1951).

Emmock 400kV substation

A new 400kV substation is essential to enable the connection of the proposed Kintore – Tealing 400kV OHL as well as allowing the upgraded Alyth – Tealing and Tealing – Westfield OHLs to connect at 400kV. Tealing has been selected as the preferred area as it reuses existing infrastructure via Westfield and Alyth down to Kincardine that can be upgraded to 400kV operation.

A new substation site near Tealing, close to the existing Tealing substation, minimises the requirement for new infrastructure.

The planning application for Emmock was submitted to Angus Council in November 2024 (24/00699/FULN).

Upgrade to 400kV for Alyth – Tealing and Tealing – Westfield OHL

To support the increased capacity from the proposed Kintore - Tealing 400kV OHL, the export routes to areas of demand must be upgraded to 400kV. This means the existing Alyth - Tealing and Tealing - Westfield OHLs, which currently operate at 275kV need to be upgraded to operate at 400kV. This is known as 'reconductoring' and is achieved by replacing the existing conductors with larger capacity conductors and other associated fittings. This will require other elements of works including access track construction and foundation upgrades. Once upgraded, these lines will connect into the proposed new 400kV substation at Tealing (Emmock).

Section 37 applications have been submitted for both upgrade projects to the ECU in November 2024 (Alyth – Tealing 400kV Upgrade ECU Ref. ECU00005167 & Tealing – Westfield 400kV Upgrade ECU Ref. ECU00005168).

Emmock and Tealing Section 37 tie-ins

The Emmock and Tealing tie-ins comprise the diversion of short sections of the Alyth to Tealing (A-T OHL) and Tealing to Westfield (T-W OHL) 275kV OHLs, which currently connect at their eastern extent with the existing Tealing 275kV substation, to connect with the proposed Emmock 400kV substation.

Consent for this work will be applied for via a standalone Section 37 application under the Electricity Act 1989 to Scottish Ministers. Consent is also sought under the same application for the installation of two short sections of parallel 275kV OHL 'tiebacks' between Emmock substation and Tealing substation.

The project is essential to the completion of the Kintore to Tealing projects, as it would provide the tie-ins for the reconducted A-T OHL and T-W OHL to the proposed Emmock substation as part of the upgraded 400kV transmission infrastructure. This would allow power to keep flowing whilst the wider upgrade works are undertaken.

The key issues arising from this project are likely to be landscape and visual and cumulative impacts arising from the other proposed electrical infrastructure in the area.

An Environmental Impact Assessment (EIA) Screening Request was submitted in August 2024 and response received in November 2024 confirming an EIA would be required to be undertaken as part of the Section 37 submission. This is expected to be submitted in summer 2025. It is anticipated a decision will be made later this year and we expect to commence construction in relation to these elements in 2026.

Key feedback from consultees in relation to the tie ins is highlighted in the following pages.

