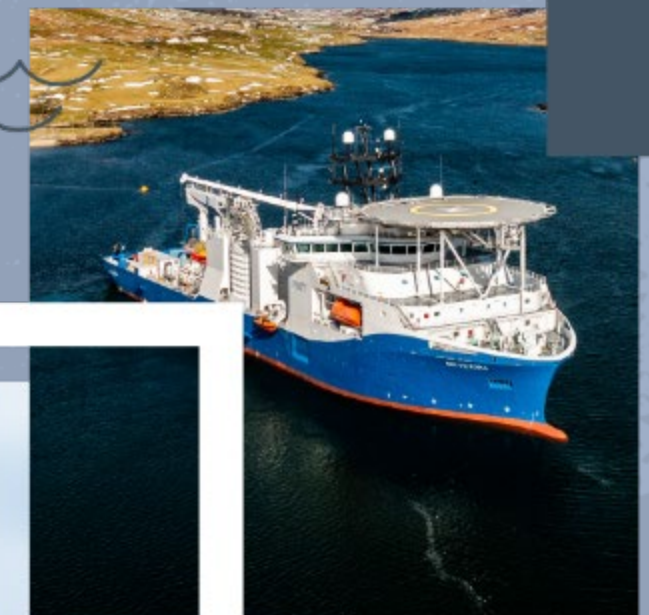


Beauly to Peterhead 400kV Overhead Line

Project Overview

Turriff & District CC Public Meeting

July 2024



Who we are and what we do

Our role in supporting Net Zero targets

Who We Are: SSEN TRANSMISSION

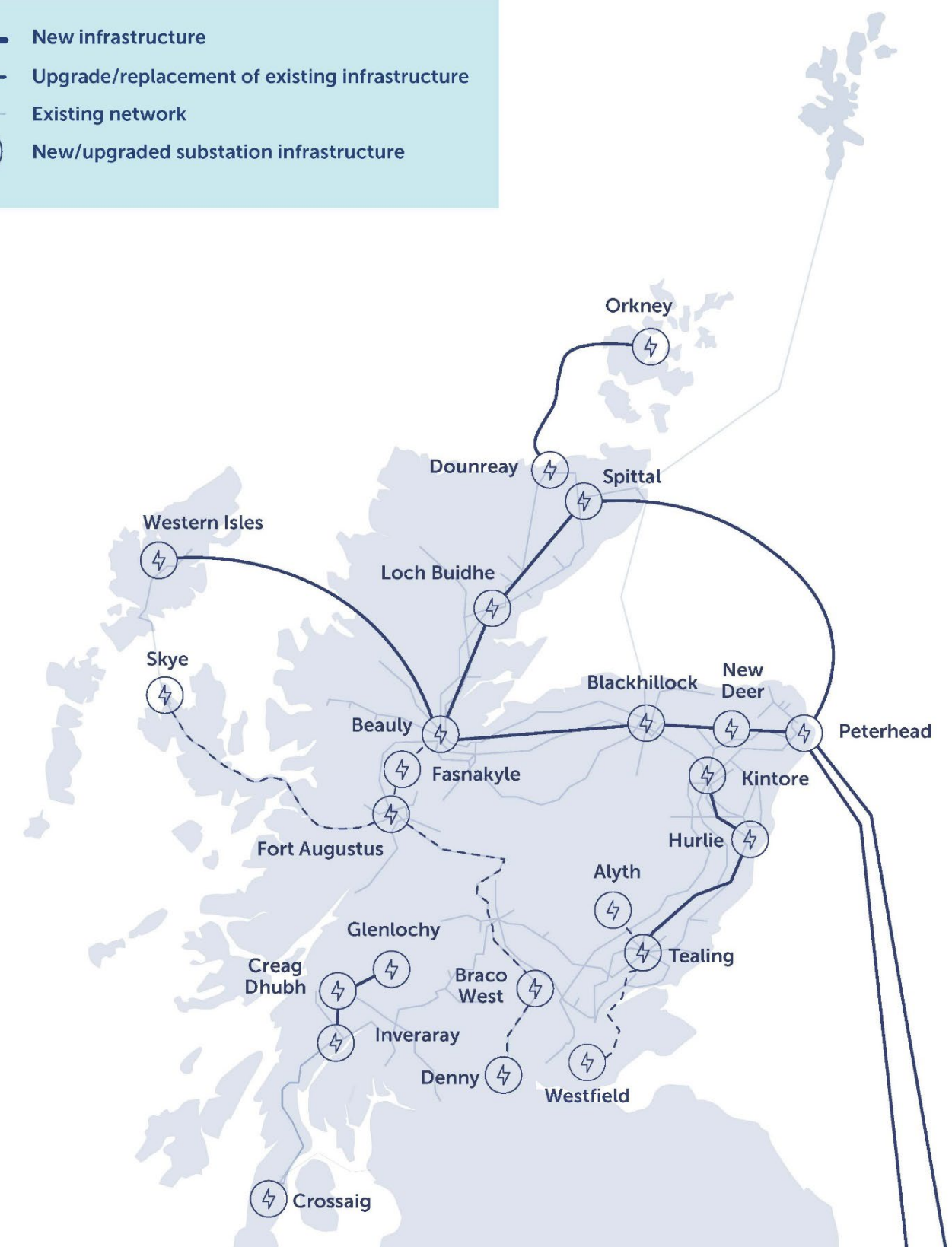
- **We are responsible for maintaining and investing in the electricity transmission network in the north of Scotland.** Our network extends over a quarter of the UK's land mass, crossing some of its most challenging terrain.
- **Our first priority is to provide a safe and reliable supply of electricity to our communities.** We do this by taking the electricity from generators and transporting it at high voltages over long distances through our transmission network for onwards distribution to homes and businesses in villages, towns and cities.
- **Our operating area is home to vast renewable energy resources, and this is being harnessed by wind, hydro and marine generation.** Working closely with National Grid ESO, we enable electricity generators to connect to the transmission system, allowing the electricity generated by them to be transported to areas of demand across the country.
- **As a natural monopoly, we are 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 in the north of Scotland. These costs are shared between all those using the transmission system, including generation developers and electricity consumers



The Pathway to 2030

- New infrastructure
- - - Upgrade/replacement of existing infrastructure
- Existing network
- ⚡ New/upgraded substation infrastructure

- We are investing **over £20bn** to upgrade the network infrastructure across the north of Scotland between now and 2030.
- As a mass transporter of renewable energy, the north of Scotland electricity transmission network **will support delivery of Scotland and the UK's 2030 net zero targets, connecting new onshore and offshore renewables and transporting the power to demand centres.**
- The projects include **new overhead lines, substations and subsea links** and are part of a major upgrade of the electricity transmission network across Great Britain.
- This investment will play a vital role in helping **ensure our future energy security** by using affordable, home-grown, low carbon electricity while **providing significant economic opportunities**, supporting **20,000 UK jobs, 9,000 of which will be in Scotland.**
- Pathway to 2030 projects will deliver further legacy benefits which include **over £100m of community benefit funding (subject to final UK Government guidance)** across the north of Scotland, a **housing strategy** where we will contribute to the development of at least 200 new homes and a commitment to deliver **at least 25% local contract spend** through our supply chain



How has the need been determined?

JAN 2022

Scotwind leasing round announced by **Crown Estate**



This delivered seabed leases for circa **30GW of offshore wind**, vastly exceeding expectations (10GW). All that wind needs to be connected to the GB electricity network.

APRIL 2022

British Energy Security Strategy (BESS) published by **UK Gov**



The BESS announced **50GW by 2030 offshore wind targets** (UK target), including current **11GW Scottish Government target** – to accelerate net zero to deliver homegrown, low-carbon, affordable energy independence

JULY 2022

National Grid Electricity System Operator led Holistic Network Design (HND)



The HND sets out how Transmission Operators will deliver on Government commitments, including how we will enable circa **11GW** of ScotWind by 2030, key to delivering 50GW by 2030. **The Beauly – Peterhead 400kV project is included within the HND.**

Dec 2022

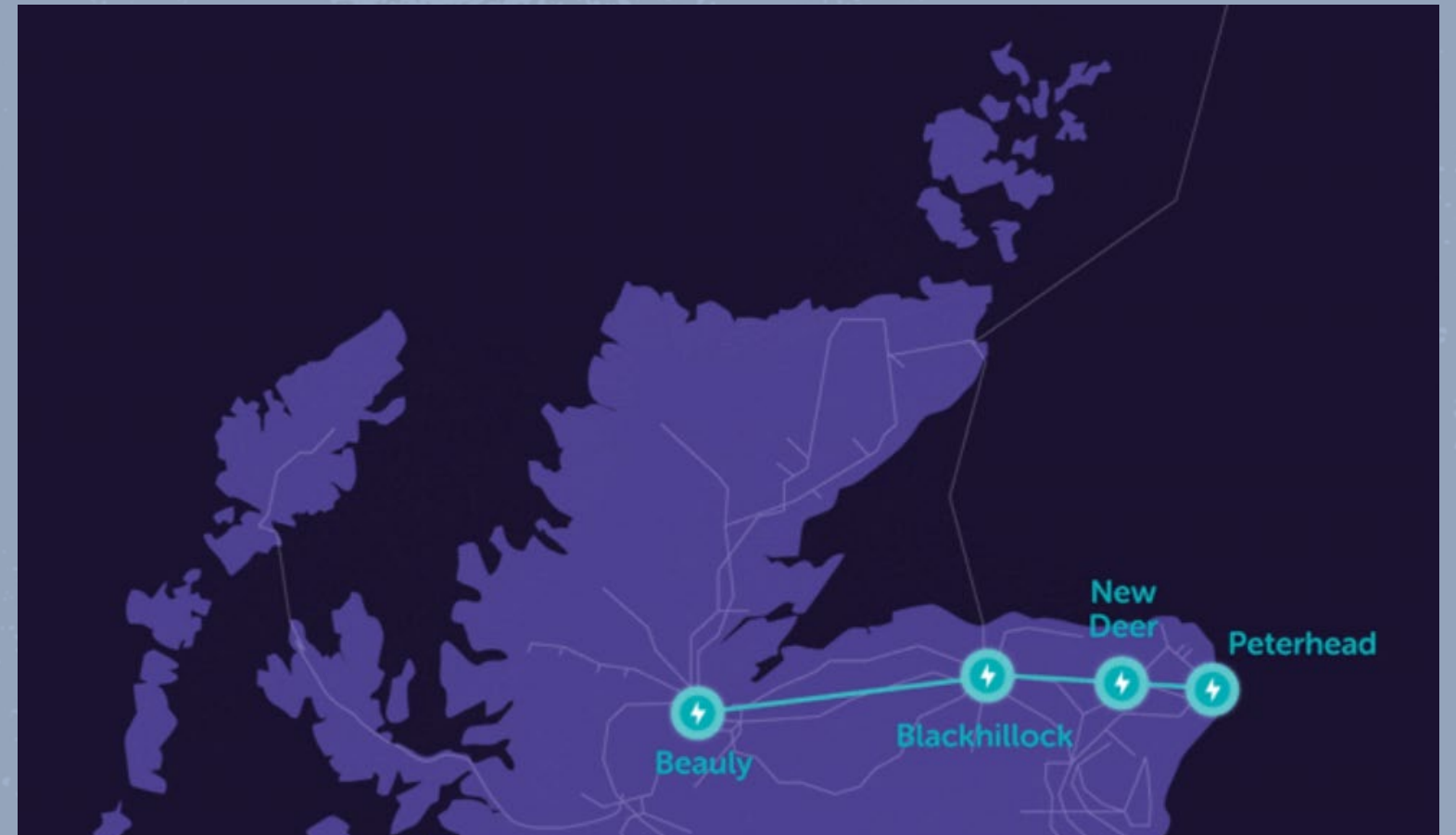
OFGEM approves need for HND projects in its Accelerated Strategic Transmission Investment



OFGEM has approved the need for the projects, which once fully developed will be subjected to formal consenting processes. Our overhead line application (Section 37) will be determined by the **Scottish Government's Energy Consents Unit** and substation applications as part of the Town and Country Planning Act, where the local council is the determining authority.

Beauly to Blackhillock to New Deer to Peterhead 400kV Overhead Line

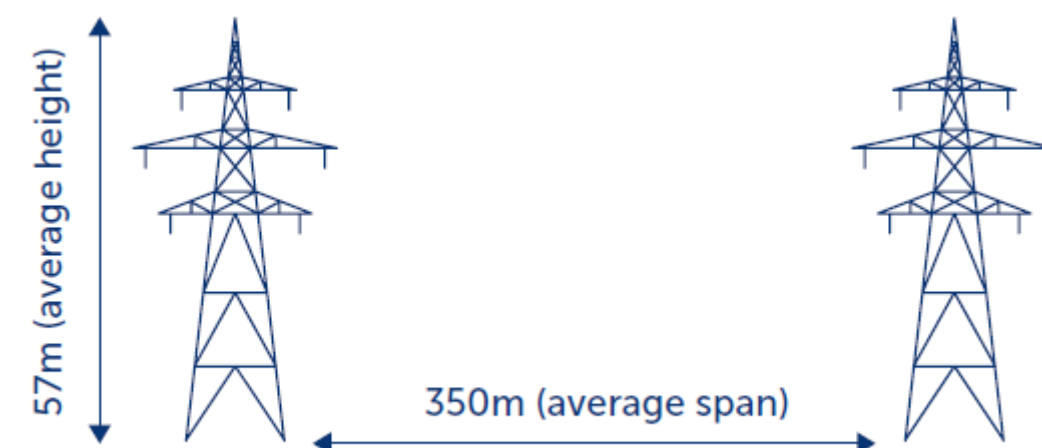
About the project



About the overhead line

400kV double circuit overhead line

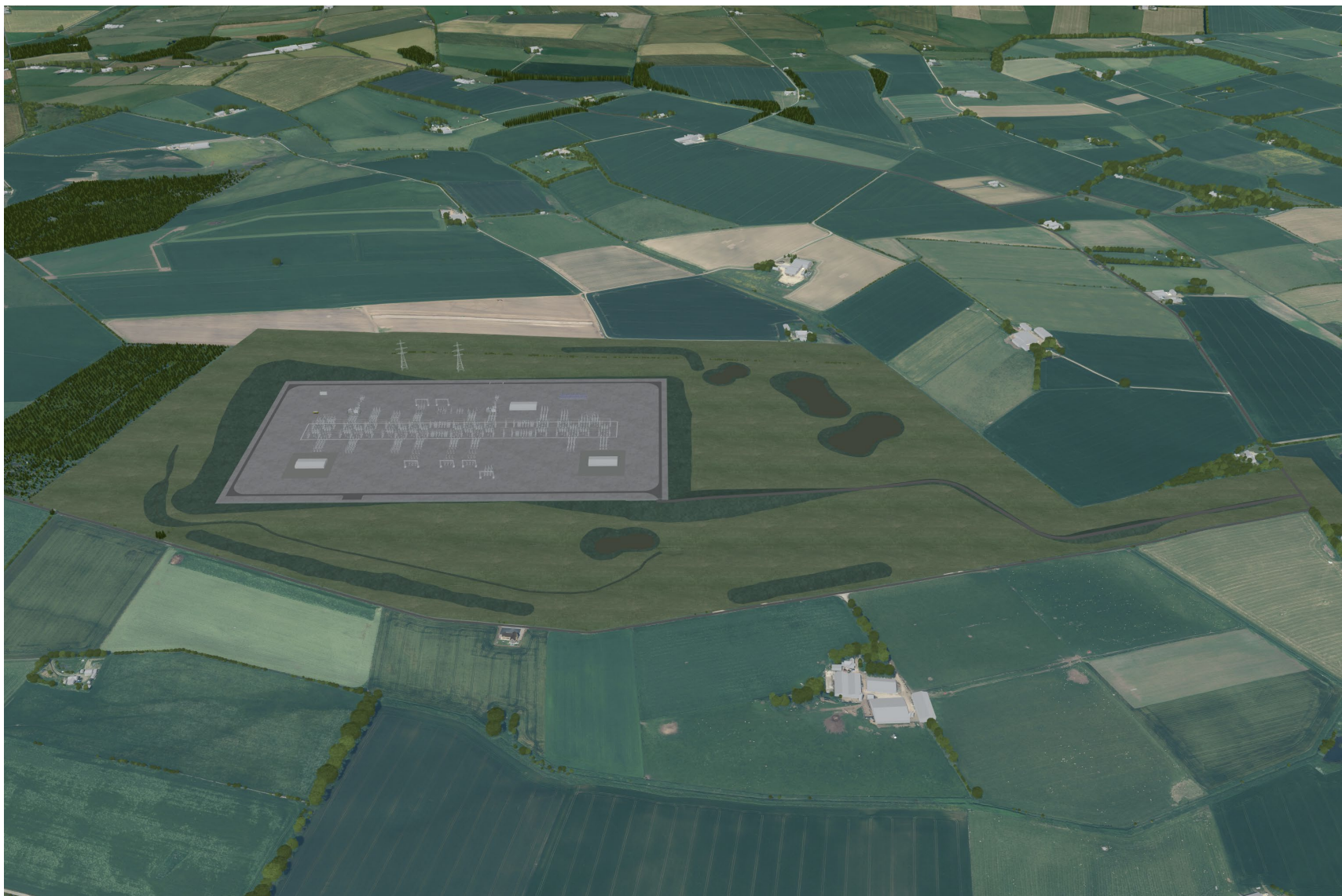
- The required technology for the **new 400kV link between new substations** located at **Fanellan** near Beauly, **Coachford** near Blackhillock, **Greens** near New Deer and on to **Netherton** near Peterhead has been determined to be a **new double circuit 400kV HVAC (High Voltage Alternating Current) overhead line**.
- The overhead line would consist of steel lattice towers with **an average height of approx. 57m** which would support six conductor bundles on six cross arms and an earth wire between the peaks for lightning protection.
- The average distance between towers is expected to be 350m. Tower height and the distance between them will vary dependent on several factors such as altitude, climatic conditions and topography.
- This is similar to our Beauly - Denny line, where **80% of its 600+ towers are below 57m**, ranging from **42m to 65m** in height.



Overhead line operational corridor through forestry

About the Greens 400kV Substation

Previously referred to as 'New Deer 2'



3D Visualisation of Greens 400kV substation

- The project will involve construction of a new outdoor 400kV Air Insulated Switchgear (AIS) substation, located east of Turriff and south of Cuminestown, 3km from the existing New Deer substation.
- The current proposed substation footprint is approximately **660m by 330m**.
- With provision to enable future renewable energy generation to connect to the transmission network, Greens 400kV substation will connect to the Beauly to Peterhead 400kV OHL. It will also connect to the existing New Deer substation via underground cable (UGC).

The story so far

Autumn 2022

We first introduced the overhead line project in Sept 22, consulting on potential route corridors options which were **as wide as 10km**.

Spring 2023

- After refining our proposals, we held further public events regarding **potential 1km wide routes** for the overhead line, requesting feedback on these.
- We also consulted on **potential sites** for the new Greens Substation, introducing the project

Summer 2023

The routing and site selection consultation closed on 30 June 2023. We received;

- Over **400** written responses for the **overhead line**
- Over **70** responses were received regarding **Greens Substation**.

Late 2023

We published **Reports on Consultation in Dec 2023**.

These confirmed our proposed route for the overhead line and confirmed our proposed site selected to take forward to the next stage of development for Greens Substation.

Early 2024

- On 30 Jan, we submitted our **Proposal of Application Notice (PAN)** to Aberdeenshire Council for Greens Substation.
- In Feb, we held the first of two sequential **pre-application public consultation events for Greens Substation**.
- We also hosted **additional events throughout Feb/March, for the overhead line** sharing where we had further narrowed down our proposals and seeking views.

Summer 2024

- In May, we held our **second pre-application consultation** events for Greens Substation, presenting feedback received in Early 2024
- For the overhead line, we held **alignment consultation events throughout May/June** and share what the overhead line may look like through our 3D Model
- Our period for comments for Greens Substation closed on **4 July**.
- **Our feedback period for the overhead line alignment closes on 2 August**.

Our engagement process

In the development stage of the project, we have engaged with a wide range of statutory and non-statutory stakeholders using a wide range of methods.

- **30,000 invites send by post** to communities within proximity of the proposed routes
- Adverts in **regional and local newspapers**, including the Press & Journal
- **Email invites** to people signed up to project mailing lists
- Engagement with **Elected Members and Councillors**
- Pre-event **briefings with Community Council representatives**
- Early engagement with **affected landowners**
- Engagement with **residents** in close proximity to the substation sites
- **Posters** in Community Noticeboards and around community venues
- Ongoing communication with residents **by phone and email.**



What happens next

Finalising our proposals, engaging further and submitting planning applications

Late Summer 2024:

- Consultation period for the overhead line open until **02 August**
- **Ongoing internal workshops** considering any changes required based on feedback/further survey work

Autumn/Late 2024:

- Environmental Impact Assessments
- Ground Investigations
- Land negotiations
- **Publish Reports on Consultation and Pre-Application Consultation Reports**
- **Final alignment public engagement events** for the overhead line project
- Submit Town and Country Planning Application for Greens Substation

End of 2024

- Submit Section 37 Application to Energy Consents Unit for the Overhead Line



Key topics and concerns raised during consultation

- **Concern around Cumulative Impact of increased connections into Greens**
 - Whilst we are not permitted to disclose details of 3rd party developments until they are in the public domain, **we are currently considering how we can best help address this concern**, to illustrate future development proposals to local communities
- **Impacts of construction traffic on local residents**
 - **Concerns about safety, robustness of local roads and maintenance**
 - A full **Construction Traffic Management Plan (CTMP)** will be prepared and **agreed with the local planning authority and shared with local communities in advance**
 - This will include **road widening, junction improvements & repairs**, delivered prior to construction
 - We will **work with the Council** to ensure a defined route to and from site is identified for vehicles
- **Safety**
 - **Local residents raised concern about the risk of fire from the substation**
 - There will be a **comprehensive fire risk assessment** as part of the **Construction Environmental Management Plan (CEMP)** and this will be submitted as part of our planning application
 - There will be **no lithium batteries on site** and the substation will be utilising existing technologies

Key topics and concerns raised during consultation

- **How will Private Water Supplies (PWS) be protected**
 - A **full PWS survey** is currently taking place
 - **Draining Impact and Flood Risk Assessments (DIA/FRA)** form part of the planning application and will be **assessed by the Planning Authority & SEPA**
- **Community Benefit**
 - We will **launch our first Community Benefit Fund on 1st September 2024** aimed at funding a range of projects across the north of Scotland
 - From 1st September, eligible organisations in the north of Scotland will be able to apply for funding from an initial £2m being released from our **opening £10m** community benefit fund
 - Looking forward, based on the 'Pathway to 2030' investment programme, and initial indication from the UK Gov on anticipated scale of community benefit funding, we **expect the overall value of the fund to exceed £100m**, creating a huge opportunity to maximise the transformative impact that new electricity transmission developments can have



ssen-transmission.co.uk/2030faqs

Find out more

Access our webpages, videos, maps and documents

- **Sign up for updates** via our project webpages
- Come to our **next overhead line consultation events**
- **View our visualisations**
- Read our documents and **access our maps**
- Contact your Community Liaison Manager;

Beauly - Peterhead: bbnp@sse.com

Greens Substation: Rob.Whytock@sse.com



Visit the Beauly – Peterhead webpage:
ssen-transmission.co.uk/bbnp

Visit the Greens Substation webpage:
ssen-transmission.co.uk/greens