SP Energy Networks

Tealing to Kincardine Upgrade Project

Conland Substation and overhead line uprating

Summary of feedback from first round of pre-application consultation

October 2025

Contents

Executive summary

This report summarises the first round of pre-application consultation (PAC) carried out by SP Energy Networks (SPEN) on proposals for a new substation and associated overhead line works at Conland, near Glenrothes, and increasing the voltage of existing overhead lines as part of the wider Tealing to Kincardine Upgrade Project (TKUP).

SPEN carried out PAC with local residents and stakeholders from Monday 28 April 2025 until Friday 23 May 2025. This included two drop-in events, one in Newton of Falkland and one in Glenrothes.

TKUP also includes extending the existing substations at Westfield, near Ballingry, and Mossmorran, near Cowdenbeath, in order to increase the voltage of existing overhead lines between Tealing and Kincardine from 275,000 volts (275kV) to 400kV. The proposals for Westfield and Mossmorran were subject to separate PAC during 2024.

While substation development does not fall under the schedules of development set out within the Town & Country Planning (Environmental Impact Assessment) (Scotland) Regulations 2017, SPEN elected to carry out a full Environmental Impact Assessment (EIA) of the proposals to ensure that the potential effects of the substation on the local area are considered in detail.

This report will provide:

- an overview of the project proposals
- details of the consultation process
- the next steps in the process.

1 Introduction

1.1 The need for the Tealing to Kincardine Upgrade Project

The Network Options Assessment (NOA) is carried out every year by the National Energy Systems Operator (NESO) to determine what, if any, additional capacity will be required and economically justified to ensure current and future energy generation can flow from where it is produced to where it is needed.

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 and unable to accommodate all the clean, green renewable energy we will all need in future.

In order to increase network capacity, the voltage of the existing overhead line between Tealing, near Dundee, and Kincardine, in Fife, needs to be increased from 275kV to 400kV. To facilitate this, SPEN needs to build a new high-voltage substation at Conland, near Glenrothes, and extend the existing substations at Westfield, near Ballingry, and Mossmorran, near Cowdenbeath, to accommodate new transformers and other equipment.

In addition, this substation will be configured to enable contracted connections at 275kV and facilitate the future development of a 400kV double busbar, should this be required.

The new and extended substations will have a key role in enabling Scotland and the UK to meet net zero emissions targets while ensuring that power flows efficiently through the system in central Scotland.

1.2 The role of SP Energy Networks (SPEN)

SPEN is part of the ScottishPower Group. It is responsible for the transmission and distribution of electricity in central and southern Scotland and, through SP Manweb and SP Electricity North West, the distribution network in North Wales and part of North West England. SPEN's role is to maintain, operate and invest in our network to secure a safe, reliable and economic service for current and future consumers.

Its transmission networks are the backbone of the electricity system in its area, carrying large amounts of electricity at high voltages across long distances. The distribution networks are local networks, which take electricity from the transmission grid and bring it into the heart of communities. SPEN's transmission network in Scotland consists of over 150 substations, more than 4,500km of overhead lines and more than 600km of underground cables.

As transmission licence holder for southern Scotland, SPEN (through SP Transmission) is required under Section 9(2) of the Electricity Act 1989 to:

- develop and maintain an efficient, co-ordinated and economical system of electricity transmission; and
- facilitate competition in the supply and generation of electricity.

SPEN is required to provide for new electricity generators wishing to connect to the transmission system in its licence area, to make its transmission system available for these purposes and to ensure that the system is fit for purpose through appropriate reinforcements to accommodate the contracted capacity.

Schedule 9 of the Electricity Act 1989 imposes a further statutory duty on SPEN to take account of the following factors in formulating proposals for the installation of overhead transmission lines:

- "(a) to have regard to the desirability of preserving natural beauty, of conserving flora, fauna and geological or physiographical features of special interest and of protecting sites, buildings and objects of architectural, historic or archaeological interest; and
- (b) to do what it reasonably can to mitigate any effects which the proposals would have on the natural beauty of the countryside or any such flora, fauna, features, sites, buildings or objects."

SPEN's 'Schedule 9 Statement' sets out how it will meet the duty placed upon it under Schedule 9. The Statement also refers to the application of best-practice methods to assess the environmental impacts of proposals and to identify appropriate mitigation measures.

As a result of the above, SPEN is required to identify electrical connections that meet the technical requirements of the electricity system, which are economically viable and cause, on balance, the least disturbance to both the environment and the people who live, work and enjoy recreation within it.

1.3 The project proposals

The TKUP proposals include increasing the voltage of the existing overhead line between Tealing, near Dundee, and Kincardine, in Fife, from 275kV to 400kV; extending the existing substations at Westfield and Mossmorran to accommodate new transformers and other equipment; and building a new substation at Conland, near Glenrothes. Reconfiguration of existing overhead lines will be required adjacent to these substations as well as associated works, including new access roads, drainage and landscaping.

The proposals for Conland Substation will include the following construction and connectivity works:

- an area for the substation platform (on which the equipment will sit);
- a single-storey control building, housing electrical switchgear, plant and ancillary equipment;
- two 400/275kV transformers;
- air insulated switchgear (AIS) to connect each circuit;
- access track from public road suitable for construction vehicles;
- temporary road widening in places along Hill Road to allow two-way construction traffic;
- internal access routes and vehicle parking;
- drainage and mitigation (for example landscaping, drainage pond); and
- a new 3m steel palisade fence around the live compound, and a post-and-wire fence around the wider perimeter for safety and security purposes.

2 Approach to the pre-application consultation

2.1 Legislation and guidance

SPEN will be applying to Fife Council for planning permission for TKUP under Section 57(2) of the Town and Country Planning (Scotland) Act 1997, as amended.

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

Because the substation will operate at 400kV/132kV, it is classified as a national development in terms of the Scottish Government's National Planning Framework 4. This means that an applicant must carry out a PAC and submit a report on the consultation as well as a Design and Access statement with the application.

2.2 SPEN's statutory and licence responsibilities

As a transmission licence holder for central and southern Scotland, SPEN is required under Section 9(2) of the Electricity Act 1989 to develop and maintain an efficient, co-ordinated and economical transmission system.

SPEN also has a duty under section 38 of Schedule 9 of the Electricity Act 1989, to have regard to the desirability of the preservation of amenity, the natural environment, cultural heritage, landscape and visual quality. SPEN also considers the effect of development on surrounding communities when putting forward proposals for new electricity lines and other transmission development.

As a result of the above, SPEN is required to identify electrical connections that meet the technical requirements of the electricity system, which are economically viable, and cause, on balance, the least disturbance to the environment and the people who live, work and enjoy recreation within it.

2.3 SPEN's commitment to engagement

Stakeholder engagement, including public involvement, is an important component of the Scottish planning and consenting system. Legislation and government guidance aim to ensure that the public, local communities, statutory and other consultees and interested parties have an opportunity to have their views taken into account throughout the planning process.

Striking the right balance can be challenging, and in seeking to achieve this, SPEN recognises the importance of consulting effectively on proposals and being transparent about the decisions reached. SPEN is keen to engage with key stakeholders, including local communities and others who may have an interest in the project. This engagement process begins at the early stages of development of a project and continues into construction once consent has been granted.

2.4 Consultation strategy and approach

SPEN follows all legislation and best-practice guidance for PAC when seeking consents for planning and development. The Scottish Government's ECU best-practice guidance

encourages applicants to engage with stakeholders and the public in order to develop their proposals in advance of such applications being made.[1]

The strategy for consultation on the Conland Substation proposals was designed to ensure that stakeholders:

- were made aware of the proposals in a timely manner;
- had access to project information and understood its development; and
- could put forward their own views and be confident that issues raised would be considered.

The formal Proposal of Application Notice (PAN), submitted to Fife Council, sets out a description of the development in general terms, including maps to identify the site and SPEN's proposals for undertaking PAC for the substation extensions and associated works.

SPEN used a range of communication channels to publicise and promote the consultations, which are detailed in the following sections of this document. Respondents also had the opportunity to speak with the project team and provide feedback in different formats, depending on their preference:

- Email: tkup@communityrelations.co.uk
- Freepost: FREEPOST SPEN TKUP
- Freephone: 0800 470 2376
- Online via the dedicated project website: www.spenergynetworks.co.uk/pages/tkup_project.aspx
- Face-to-face or in writing at public consultation exhibitions

[1] Scottish Government: "Electricity Act 1989 – sections 36 and 37: Applications guidance" (February 2022). Available at: https://www.gov.scot/publications/good-practice-guidance-applications-under-sections-36-37-electricity-act-1989/.

3 Pre-application consultation

3.1 Consultation strategy

SPEN attaches great significance to the effects its works may have on the environment and local communities and is very keen to hear the views of local people to help it develop the project in the most appropriate way.

The overall objective of the consultation process is to ensure that all parties with an interest in the TKUP project have access to up-to-date information and are provided with clear and easy ways in which to shape and inform SPEN's proposals at the pre-application stage.

As part of the consultation strategy, SPEN will be holding two rounds of public consultation for the public, stakeholders and consultees to provide comments on the proposals.

For the first round of consultation, SPEN consulted, and welcomed feedback from consultees, on the following:

- the proposed new substation, including location, potential layout plan, landscaping and drainage proposals;
- access to the site;
- proposed routes for construction vehicles;
- proposed changes to the overhead lines, including temporary and permanent pylon locations and increasing the voltage;
- local factors that people wanted us to consider, such as areas used for recreation and local environmental features;
- any comments on the consultation process itself; and
- any wider comments consultees might have.

3.2 How we consulted

The consultation period ran from Monday 28 April until Friday 23 May 2025.

SPEN wished to consult with relevant stakeholders and seek their views on the proposals. The stakeholder groups that were identified for engagement included:

- statutory and non-statutory consultees, including Cardenden, Kinglassie, Portmoak, Thornton, North Glenrothes, and Pitteuchar, Stenton and Finglassie community councils;
- known local interest and community groups in the project area;
- elected members of Fife Council, Members of Parliament (MP) and Members of the Scottish Parliament (MSPs) whose wards or constituencies include or are adjacent to the proposed development; and
- local residents, businesses and the general public.

A notification was sent via email to the project stakeholders advising them of the consultation and inviting them to public events.

Project leaflets were produced explaining the Conland proposals, the purpose of the consultation and the process for submitting feedback. The leaflets were distributed to properties (residential and business) within a defined radius of the proposed substation site and access route. For Conland, this included the communities in close proximity to the

project, in the northern area of the village of Leslie, the Collydean area of Glenrothes and the Falkland area. A copy of the leaflet can be found in Appendix A.

To promote the consultation, SPEN placed formal newspaper advertisements in the *Glenrothes Gazette*, *Central Fife Times* and *Fife Free Press* newspapers for two consecutive weeks (w/c 14 and w/c 21 April 2025). The advert introduced the consultation with some high-level information about the project, including the proposals, details of the drop-in exhibitions and the ways in which feedback could be submitted. A QR code linking to the project website was also included on the adverts. A copy of the advert can be found in Appendix B.

The project leaflet, newspaper notice, project plans, FAQs, general information about the project and the consultation, and a feedback form were made available on a dedicated project website: www.spenergynetworks.co.uk/pages/tkup_project.aspx. To make the website as accessible as possible, most communications created for the consultation included a QR code that linked through to the home page of the website. The website has remained live following the consultation to ensure stakeholders can continue to refer to project information and stay up to date on project developments.

A feedback form was made available in hard copy and online. Stakeholders could submit feedback in various ways, as outlined in Section 2.4. Respondents were made aware via a data protection statement that any comments they made could be made available to certain bodies for the purposes of the consultation and for creating reports. These included the Scottish Government and relevant planning authorities.

The feedback form included seven questions in relation to the project proposals and an additional section that asked demographic data, including title, name, address, telephone number, email address, asking if the respondent is responding on behalf of an organisation and if they attended the public exhibition.

The seven project-related questions were:

1. Do you have any comments on our proposals for Conland Substation?
2. Do you have any comments on the proposed access arrangements?
3. Do you have any comments on the proposed overhead line changes at Conland?
4. Do you have any comments on the proposed overhead line works?
5. How did you find out about the project and the consultation? *[Multiple-choice options provided were: advert, leaflet, website, media coverage, social media, word of mouth, other.]*
6. Do you have any comments about our public consultation?
7. Are there any other comments you would like to make?

The closing date for submitting responses to SPEN was midnight on Friday 23 May 2025. Following this date, the consultation information remained accessible on the project website and available to download.

Eight feedback forms were submitted during the consultation period. The TKUP email and phoneline remained open and any enquiries or feedback received were responded to accordingly.

SPEN held two public events for the consultation:

- Monday 28 April, 2pm–7pm: Newton of Falkland Village Hall, Main Street, Newton of Falkland, Cupar KY15 7QX
- Tuesday 29 April, 2pm–7pm: Balgeddie House Hotel, Balgeddie Way, Glenrothes KY6 3QA

The venues, dates and times were detailed in all project communications that had been issued.

At the events, stakeholders had the opportunity to drop in to view the project proposals and talk to members of the project team to discuss any questions or concerns that they had. The materials made available at the events included seven pull-up exhibition panels that provided details on each aspect of the proposals, hard copies of large-scale maps and relevant project documents. A copy of the exhibition panels can be found in Appendix C.

3.3 Summary of feedback

Key theme	Example comments	SPEN response
Environmental and biodiversity impact	I am concerned about potential impact on natural beauty and wildlife. More and more houses have been built, removing natural spaces, you can't enjoy a picnic on the grass down the town park because of bikes or big pump track. The Lomond Hills is all that's left. Please PLEASE leave that area to be natural!!! The wildlife is being driven into town or roads!! It will be ugly, disturb/kill wildlife and ruin the limited amount of natural beauty left in Glenrothes. I genuinely smile when I see the hills. I know others and myself regularly walk or bike up the hills. Please do not build anything here.	As the holder of a transmission licence under the Electricity Act 1989, SP Transmission is subject to a number of statutory duties and licence obligations. These include requirements *"to develop and maintain an efficient, coordinated and economical system of electricity transmission"* and *"to facilitate competition in the generation and supply of electricity"*. This requires SP Transmission to provide for new electricity generators – such as wind farm developers wishing to connect to the transmission system in its licence area – to make its transmission system available for these purposes and to ensure that the transmission system is fit for purpose through appropriate reinforcements to accommodate the contracted capacity. In addition, in formulating proposals for electricity transmission infrastructure, SP Transmission is subject to duties under Schedule 9 of the Electricity Act 1989: *"(a) to have regard to the desirability of preserving natural beauty, of conserving flora, fauna and geological or physiographical features of special interest and of protecting sites, buildings and objects of architectural, historic or archaeological interest; and, (b) to do what it reasonably can to mitigate any effect which the proposals would have on the natural beauty of the countryside or on any such flora, fauna, features, sites, buildings or objects."*
Visual impact	I am concerned as to the visual impact of the proposed site. This area can be clearly seen from as far away as the A92 at Kirkcaldy with all the farms including Pitkevy Farm, Easter Glassie	Mitigation in the form of bunding and vegetation is proposed to limit visual impacts of the proposal. Building colours will also be

	and Haring Myre clearly visible from Leslie and its environs.	considered carefully to attempt to blend with the surrounding environment.
Impact on local community	The road from Leslie to Falkland already experiences usage beyond its intended use due to the quarry. What steps will be taken to minimise further disruption both during construction and beyond?	Local road widening is proposed along the Leslie to Falkland road between the site entrance and north of the quarry. A traffic management plan will be submitted for approval by the local planning authority prior to any construction works, and these works will be temporary in nature. Once operational, traffic to the site will be minimal, with only periodic maintenance visits necessary, as the substation will be unmanned.
	I think it will be a good improvement to make.	Noted.
	Please make sure all is done properly and that anything moved is replaced.	Noted.
Impact on traffic	Would be ideal to widen road and leave widened after work done, as definitely better as road can be unsafe because of speeding drivers.	Some local road widening is proposed for the Leslie to Falkland road to accommodate the vehicles used during the temporary construction period.
Design specifics	If there are walkways to be included in the build, can they please be to a standard that makes them comfortable for people to walk on. The grey stones used at Whennyknowe Substation are not suitable for a good walking surface. Concerned also for the paws of my dog.	Noted.
	Path at Glenrothes Substation: Thank you for the new path – sadly it is very difficult for people and dogs to walk on and underneath it will be a mud bath on a rainy day. Perhaps, with all the money being spent on	The path installed by SPEN adjacent to the existing substation at Glenrothes is considered an improvement to the pre-existing conditions. There are no current plans to further upgrade this land.

	updating and new building, a properly laid path could be considered. We walkers would be very grateful indeed.	
	I would welcome the road remaining wider – perhaps with the additional of a cycle/pathway as this is a popular walking route to/from the Lomond Hills and with the road narrower it presents more dangers to other users.	Permanent retention of any road widening would be required to be agreed with the local planning authority but could be considered.
Need for the project	I found it encouraging to see how advanced renewable energy is in Scotland.	Noted.
	My main question is about whether this is being built purely for the benefit of the Scottish grid or whether it is to enable transmission of electricity to England.	The proposal is Strategic National Infrastructure required to improve the transfer of power from northern Scotland, across central Scotland and to demand centres across the United Kingdom, including England. The project will modernise the electricity network and will also help guarantee secure electricity supplies for this area of central Scotland into the future.
Quality of consultation	Very informative and professional explanation at the event about the new substation, where it was and the timescale involved with such a major investment. Seeing the proposals on a much larger scale map was excellent.	Noted.
	Well set out, plenty of people able to explain.	Noted.
	Just good to be involved.	Noted.
	Was well explained by the staff there.	Noted.

	Not very publicised!!!! Done quietly, possibly to avoid objections! Speak to parents, speak to dog walkers, speak to the older generation who have watched most of Glenrothes be destroyed, speak to kids who will miss out on the natural beauty of Glenrothes! Should be advertising in town centre, schools, multiple supermarkets, coffee meetings, Doctors surgeries, etc. I only knew about this via a social media post about the project; the post was by a member of the public, not SP Energy. How is anyone supposed to attend meetings without notice? An online meeting may be appropriate as people work so can't attend!	SP Energy Networks is always looking for ways to improve awareness of consultation events and will consider these suggestions for future events. The events were advertised in local newspapers, as well as through the distribution of 3,514 leaflets to local residents and businesses, and by way of contact with community councils.
	It provided all the information needed at this stage, the staff were well informed and answered the queries I had.	Noted.
	There should have been a meeting in Leslie as this is the community, along with Falkland, most directly affected.	A venue in Leslie was not available at the time required, and The Balgeddie House Hotel in Glenrothes was considered an appropriate alternative in terms of size, proximity and availability. Our intention is to hold an event in Leslie at the next consultation if available.

4 Next steps

Following the first round of PAC, SPEN has considered all feedback received and taken it into account in developing a detailed design for the proposed Conland Substation. Detailed plans and designs for the site layout and access arrangements will be presented at a further PAC event in autumn 2025.

Following this further PAC event, SPEN will carry out an EIA, prepare a detailed development and design proposal, and submit a planning application to Fife Council. The Council will then invite representations from local people and stakeholders before deciding whether to grant planning permission, and to inform any conditions that may be required under permission.

SPEN will also need to submit applications to the Scottish Government's ECU, under Section 37 of the Electricity Act 1989, for the proposed changes to the overhead lines and uprating in voltage.

5 Appendices

Appendix A: Project leaflet

Why do we need the new Conland 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.

The need for the Tealing to Kincardine Upgrade Project was identified by the National Energy System Operator in its Network Options Assessment (NOA), published January 2022. This project will increase the voltage of existing overhead lines through Fife and along the east coast of Scotland from 275kV to 400kV, allowing more energy to flow through the network.

The need for a new 275kV/400kV substation near the junction of the existing overhead lines north of Glenrothes was identified as part of this process. The new Conland substation will have a key role in enabling Scotland and the UK to meet Net Zero emissions targets while ensuring that power flows efficiently through the system in central Scotland.

What does the project involve?

We are still developing detailed plans, but the proposed new Conland will include:

- An area for the substation platform (on which the equipment will sit);
- A single-storey control building, housing electrical switchgear, plant and ancillary equipment;
- Two 400/275kV transformers;
- Air Insulated Switchgear (AIS) to connect each circuit;
- Access track from public road suitable for construction vehicles;
- Temporary road widening in places along Hill Road to allow two-way construction traffic;
- Internal access routes and vehicle parking;
- Drainage and mitigation (for example, landscaping, drainage pond); and
- A new 3m steel palisade fence around the live compound, and a post-and-wire fence around the perimeter for safety and security.

The new Conland substation will be similar to Denny North substation, shown on the front of this leaflet. The Tealing to Kincardine Upgrade Project also includes extending the existing substations at Mossmorran, near Cowdenbeath, and Westfield, near Ballingry, altering overhead lines where they enter the substations, and increasing their voltage from 275kV to 400kV.

How did you select the site for the new substation?

The new Conland substation needs to sit between the existing Glenrothes substation and the point where two existing high-voltage overhead lines meet (the YS and YT routes). We identified four possible site options and appraised them on criteria including: the landscape, proximity to residents, land use, forestry, biodiversity, peatland, flood risk, archaeology and technical difficulty.

The preferred site for the proposed new substation is on land north of Pitkevy Farm, Leslie. This site is further away from homes and next to the existing overhead lines, minimising the need for new overhead lines to connect it to the network. It also allows us to maintain supplies to the Glenrothes 275kv/33kV Grid Supply Point (GSP) at the same time.

You can find more information about the site selection process on our project website.

Overhead line changes

We will need to make minor alterations to the existing YT 275kV overhead line to connect it to the new Conland substation.

At the moment, the YT overhead line crosses the site for the proposed new substation. We plan to put up a temporary mast so we can divert the overhead line away from the site, removing the existing YT001 tower (pylon) and allowing us to build the new substation.

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

We will also need to make minor alterations to the existing YS overhead line, which runs parallel to the site, so we can connect it to the new substation. We plan to put up two temporary masts so we can divert the overhead line and build a new terminal tower between existing towers YS029 and YS030. This new tower will be connected to the new substation so we can increase the voltage of YS route from 275kV to 400kV before we remove the temporary masts and line diversion.

We will also need access to towers along the existing YS overhead line between Westfield substation and the north of our network area, near Falkland, to replace the conductors (wires), insulators and other equipment so we can increase the voltage from 275kV to 400kV. We will be talking to landowners about access arrangements, but you can find a route map showing our initial proposals on our project website.

A new tower and span of overhead line is also proposed at Longannet substation (between the existing YJ and ZCN overhead line routes).

SP Energy Networks

Conland substation location plan

Conland Substation detailed layout plan

- Site boundary
- Conland Substation Extension
- Temporary Construction Laydown Area
- Area for Landscape Retention, Enhancement or Drainage
- Area for Potential Access Improvements
- Indicative Substation Fence Line
- Indicative Deer Fence
- Indicative Access Options

SPT OHL Transmission Infrastructure

- YS OHL Route to be Retained
- YT OHL Route to be Retained
- YT OHL Route to be Removed
- New Spans to Conland Substation
- Temporary YT/YS OHL Route
- Existing YT/YS OHL Towers to be Retained
- Proposed YT/YS OHL Towers
- Temporary YT/YS OHL Towers

SP Energy Networks

We want to hear your views

Our public consultation runs from Monday 28 April until Friday 23 May 2025.

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 for Conland substation, proposed overhead line uprating and access proposals, to help us develop the project in the best way.

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

Monday 28 April, 2pm to 7pm:
Newton of Falkland Village Hall, Main Street, Newton of Falkland, Cupar, KY15 7QX

Tuesday 29 April, 2pm to 7pm:
Balgeddie House Hotel, Balgeddie Way, Glenrothes, KY6 3QA

You can find more information and project documents 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.

What happens next?

Following this first round of consultation we will develop detailed designs for the substation, 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 planning applications under the Town and Country Planning (Scotland) Act 1997 (as amended) to Fife 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 authority. When we submit applications for development consent in the future, you will be able to make formal representations at that stage.

How to contact us

Email: **tkup@communityrelations.co.uk**
You can call us free of charge on: **0800 470 2376**
You can write to us free of charge at: **FREEPOST SPEN TKUP**

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

Appendix B: Newspaper advertisement

Tealing to Kincardine Upgrade Project
Conland substation and overhead line uprating

SP Energy Networks

We'd like your views!

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.

To help make this happen we need to build a new substation at Conland, near Glenrothes, and increase the voltage of the overhead lines between Tealing (north of Dundee) and Kincardine from 275kV (275,000 volts) to 400kV. Together this will increase network capacity, moving more power from where it's generated to where it's needed.

We will also need to alter an existing overhead line slightly to connect it to the new substation, and replace conductors (wires), insulators and other equipment so we can increase the voltage. Temporary roads or temporary road widening may be required in places for tower or substation construction.

We are asking local people and stakeholders what they think about the plans, to help us develop the project in the best way.

We are holding two public exhibitions where you can view the plans and talk to the project team.

Public exhibitions:

Monday 28 April, 2pm to 7pm:
Newton of Falkland Village Hall, Main Street, Newton of Falkland, Cupar, KY15 7QX

Tuesday 29 April, 2pm to 7pm:
Balgeddie House Hotel, Balgeddie Way, Glenrothes, KY6 3QA.

You can also find more information on our website:
https://www.spenergynetworks.co.uk/pages/tkup_project.aspx

You can leave comments on the website, and you can also contact us in the following ways:

Phone: 0800 470 2376
Email: tkup@communityrelations.co.uk
Post: FREEPOST SPEN TKUP

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

Our public consultation runs from Monday 28 April until Friday 23 May 2025

Appendix C: Exhibition panels

Why do we need the new **Conland substation?**

SP Energy Networks

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 lines between Tealing (near Dundee) and Kincardine (Fife) from 275kV to 400kV, in keeping with the wider electricity transmission network, so we can get the energy from where it's produced to where it's needed.

The need for the Tealing to Kincardine Upgrade Project was identified by the National Energy System Operator (NESO) in its Network Operations Assessment, published in January 2022.

The need for a new 275kV/400kV substation near the junction of existing overhead lines north of Glenrothes was identified as part of this process. The new Conland substation will help Scotland and the UK meet Net Zero emissions targets, while ensuring that power flows efficiently through the system in central Scotland.

How did you select this **site for the substation?**

SP Energy Networks

The new Conland substation needs to sit between the existing Glenrothes substation and the point where two existing high-voltage overhead lines meet (the YS and YT routes).

We identified four possible site options and appraised them on criteria including: the landscape; proximity to residents; land use; forestry; biodiversity; peatland; flood risk; archaeology; and technical difficulty.

The preferred site for the proposed new substation is on land north of Pitkevy Farm, Leslie. This site is further away from homes and next to the existing overhead lines, minimising the need for new overhead lines to connect it to the network. It also allows electricity supplies to the Glenrothes 275kv/33kV Grid Supply Point (GSP) to be maintained without additional diversions during the construction of the substation.

Site access would be from Hill Road, the public road passing Pitkevy Farm. Temporary road widening would be required in places along Hill Road to allow two-way construction traffic.

What does the **project involve?**

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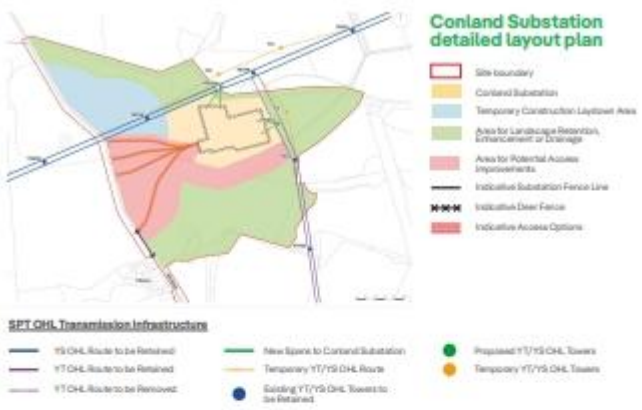
We are still developing detailed pans, but the proposed new Conland substation will include:

- An area for the substation platform (on which the equipment will sit);
- A single-storey control building, housing electrical switchgear, plant and ancillary equipment;
- Two 400kV/275kV transformers;
- Air Insulated Switchgear (AIS) to connect each circuit;
- Access track suitable for construction vehicles, with temporary widening of Hill Road in places to allow two-way construction traffic;
- Internal access routes and vehicle parking;
- Drainage and mitigation (for example, landscaping, drainage pond); and
- A new 3m steel palisade fence around the live compound, and a post-and-wire fence around the perimeter for safety and security.

The new Conland substation would be similar to Denny North substation, shown above, but on a smaller footprint.

The Tealing to Kincardine Upgrade Project also includes extending the substations at Mossmorran, near Cowdenbeath, and Westfield, near Ballingry, to accommodate new equipment so we can increase the voltage of the overhead lines.

Overhead line **changes**



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At the moment, the existing YT 275kV overhead line crosses the site for the proposed new substation. We plan to put up a temporary mast so we can divert the overhead line away from the site, removing the existing YT001 tower (pylon) so we can build the new substation.

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

We will also need to alter the existing YS overhead line, which runs parallel to the site. We plan to put up two temporary masts so we can divert the line and build a new terminal tower (pylon) between existing towers YS029 and YS030. The new tower will be connected to the new substation so we can increase the voltage of YS route from 275kV to 400kV before we remove the temporary masts and line diversion.

We will also need access to towers along the existing YS route to replace the conductors (wires), insulators and other equipment so we can increase the voltage from 275kV to 400kV.

A new tower and span of overhead line is also proposed at Longannet substation (between the existing YJ and ZCN overhead line routes).

We want to **hear your views!**

SP Energy Networks

Our public consultation runs until Friday 23 May 2025.

SPEN attaches great importance to the effect our work may have on the environment and local communities. We try to design our projects as carefully as possible and to minimise inconvenience.

We want to hear what local people think about our proposals for Conland substation, including access arrangements, landscaping and overhead line changes, to help us plan our project in the best way.

You can find more information, project documents and an online feedback form at our project website:
https://www.spenergynetworks.co.uk/pages/tkup_project.aspx

Following this first round of consultation we will develop detailed designs for the substation. 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 (EIA), and hold further consultation on our detailed plans, before we submit a planning application to Fife Council. We will also need to submit an application to the Scottish Government Energy Consents Unit for the proposed changes to the overhead lines and increase in voltage.

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

How to contact us
Email: tkup@communityrelations.co.uk
You can call us free of charge on: 0800 470 2376
You can write to us free of charge at: FREEPOST SPEN TKUP