

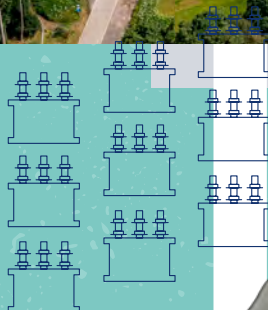


**Scottish & Southern
Electricity Networks**

TRANSMISSION

Alyth Substation Extension

Pre-Application Consultation
October 2026



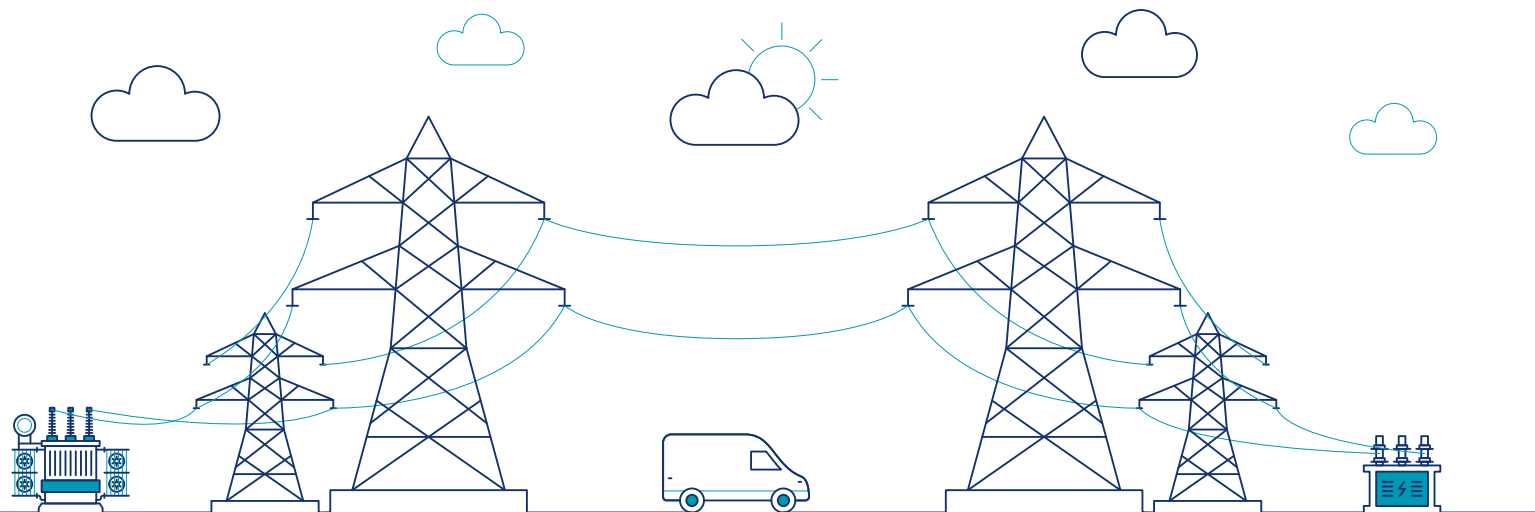
ssen-transmission.co.uk/alyth

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The consultation event will be taking place on:

Tuesday 27 October 2026
Alyth Town Hall, Albert Street,
Alyth, PH11 8AX
2-7pm



Powering change together

If we want to deliver on clean power and energy security targets and provide power for future generations, upgrades to Scotland's electricity transmission infrastructure are needed.

The shift to a cleaner, more sustainable future is about more than tackling the impact of climate change, it's about ensuring that future generations can thrive.

Countries around the world are investing in their energy infrastructure to support increasing electricity demands and to deliver on clean power targets and the UK is leading the way in building a modern, sustainable energy system for the future.



We all have a part to play

The UK and Scottish governments have set ambitious energy security and clean power targets, and we all have a part to play in delivering them.

At SSEN Transmission, we work closely with the National Energy System Operator (NESO) to connect vast renewable energy resources - like solar, wind, hydro and marine generation — to areas of demand across the country. Scotland will play a particularly big role in meeting increasing electricity demand.

But there is more to be done. By 2050, the north of Scotland is expected to contribute more than 50GW of low carbon power to the GB energy system. Today, the region has around 11GW of renewable generation connected to the network.

At SSEN Transmission, it is our role to build the energy system of the future. To do that, we are planning to invest around **£29 billion** in the coming years to upgrade the electricity transmission network in the north of Scotland. It's an investment that will unlock cleaner, more secure energy for homes and businesses now, and for generations to come.

By 2050, annual electricity demand is expected to at least double - our investment will support the connection of more clean power to meet that demand to the GB electricity network, supporting up to **17,500 jobs in Scotland**, with more than **8,000** of those in the north of Scotland, along the way.

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 and we are committed to minimising our impacts and maximising all the benefits that our developments can bring to your area.

To do that 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 and we want to hear people's views, concerns, or ideas – and harness local knowledge – so that our work benefits communities today and long into the future. You can share your views with us at: ssen-transmission.co.uk/talk-to-us/contact-us/

Help shape our plans

The work we have planned has the potential to deliver benefits in your community, Scotland, and beyond. Yet we know that achieving our goals will require a lot of work that may impact your local community. That’s why we want to work with you every step of the way throughout the planning and delivery stages of these essential works.

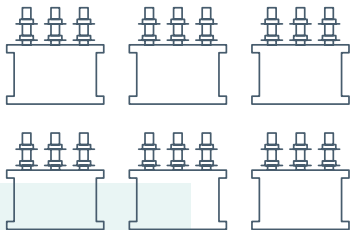
We’re committed to delivering a meaningful consultation process that actively seeks the views of everyone affected by our plans. That means making our plans clear and easily accessible, so that you can give us input throughout each stage of the development process.

Throughout the consultation, we’ll present our approach to developing the project.

We want you to share your thoughts and opinions on our plans, where you think we can make improvements, concerns about the impact of our work and as we develop the project, what you think of any changes and refinements we make.

By telling us what you think, you will help shape our proposals. We want to harness your local knowledge so that we spot any unforeseen challenges early and maximise the potential benefits and opportunities for your communities.

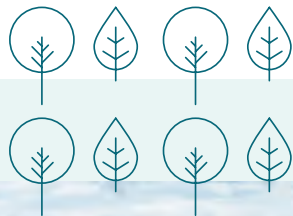
Because, ultimately, we want you to work with us to ensure that the energy infrastructure we build will be the best it can possibly be.



What are we consulting on?

We are proposing to extend the existing Alyth substation by approximately 130m by 100m to the south-west of the existing site.

We want to hear your views on our proposals, including any concerns you may have about potential impacts, and your views on any changes or refinements we make as the project develops.



Who we are consulting with?

As well as communities, we are keen to hear feedback from a broad range of other stakeholders such as landowners, businesses, non-statutory consultees and statutory consultees such as local authorities, NatureScot, Scottish Environment Protection Agency (SEPA), Historic Environment Scotland (HES), Scottish Forestry and Transport Scotland.

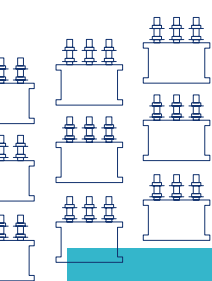


Project overview

We are proposing to install new equipment next to the existing Alyth substation to help manage voltage levels across the electricity transmission network.

The proposals include a new 225 Megavolt-Amperes reactive (MVar) Static Synchronous Compensator (STATCOM) and associated electrical infrastructure, helping the network continue to operate reliably and efficiently.

The potential location of the proposed development is immediately south west of the existing Alyth substation and will connect directly into the existing transmission network. The project forms part of our ongoing investment in the electricity network to support future energy demand and maintain a secure, resilient and reliable transmission system. The development has been designed to utilise land adjacent to the existing substation and make use of existing transmission infrastructure where possible.



Project elements

The proposed development is expected to include:

- An extension to the existing Alyth substation platform of approximately 130m x 100m.
- Installation of the new 225MVar STATCOM.
- Associated transformers and electrical equipment.
- Underground Cable (UGC) connection between the new facility and the existing substation.
- Gas Insulated Busbar (GIB) and associated connection works.
- New fencing and security infrastructure.
- Drainage and surface water management measures.
- Landscaping and screening works where required.

Why we're developing this project

As Scotland's electricity network develops, the amount and direction of electricity flowing through the network will continue to change. These changes can cause voltage levels to rise or fall. Voltage must be kept within a safe range to allow the network to operate reliably and to protect connected electrical equipment.

Network studies have identified that additional equipment is required in the Alyth area to help keep voltage levels steady. This is known as "reactive power support". It does not generate electricity for homes and businesses. Instead, it helps control the conditions on the network so that electricity can be transported safely and reliably.

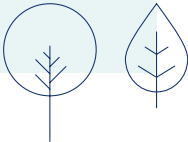
The proposed development would include a 225MVar STATCOM. A STATCOM is a type of electrical equipment that monitors voltage on the network and responds quickly when it begins to move outside the required range. It can either provide or absorb reactive power, depending on network conditions, helping to keep the voltage stable.

Alyth substation already contains equipment that helps manage voltage. However, this equipment was designed for earlier network conditions. Changes in electricity demand, renewable generation and the way electricity flows across the north of Scotland mean that additional, faster and more controllable voltage support is now required. The proposed STATCOM would work alongside the existing equipment to help maintain a safe, stable and reliable electricity supply during normal operation and following changes elsewhere on the network.

Temporary construction works are expected to include:

- Construction compound and welfare facilities.
- Parking and laydown areas.
- Temporary access arrangements.
- Temporary screening and construction support infrastructure.

As the design develops, further refinement of the layout and supporting infrastructure may be undertaken. Information presented within this consultation therefore represents the current design position and may be refined following consultation feedback and ongoing technical assessment.



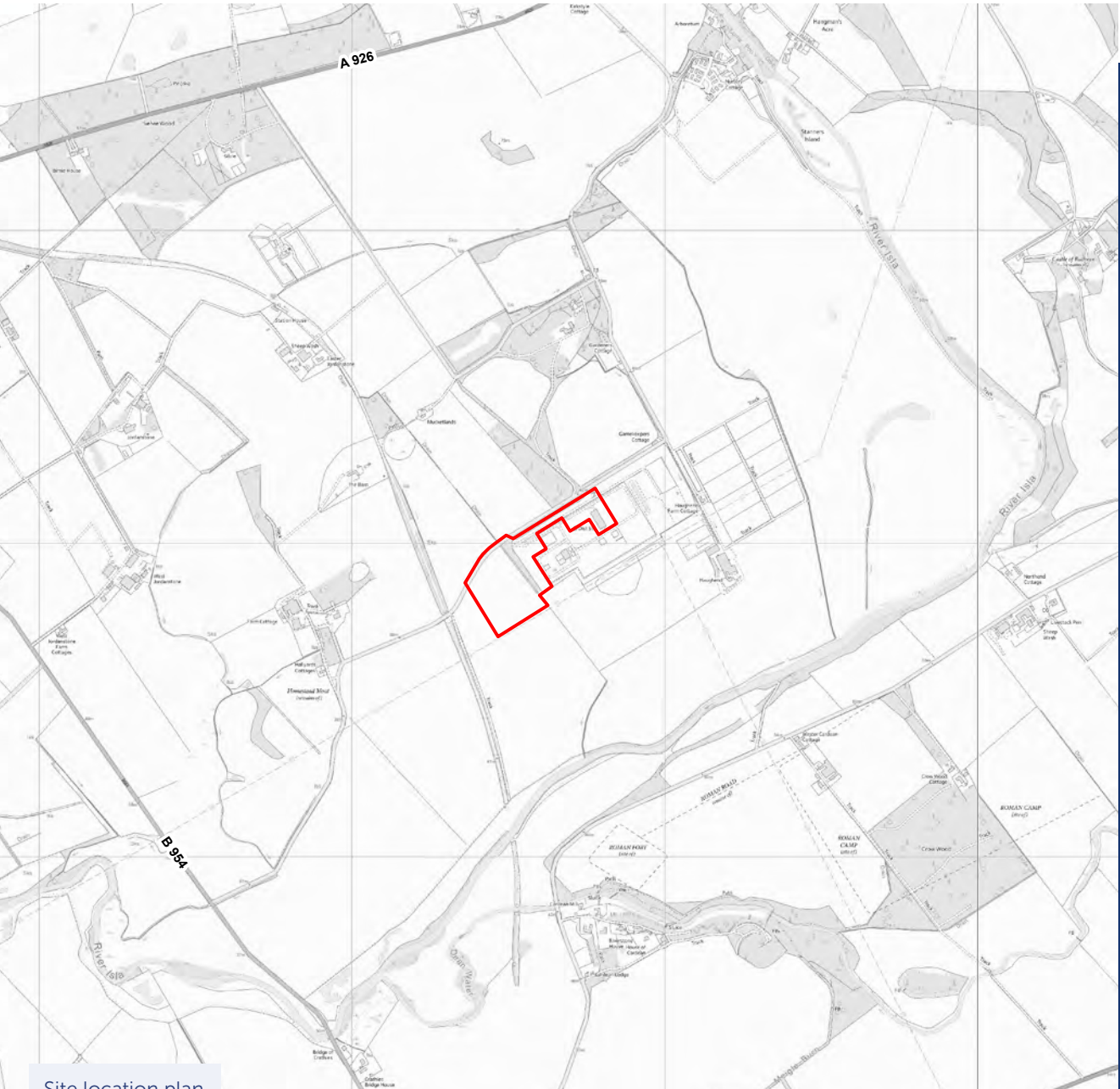
Location plan

The potential site is located immediately south west of the existing Alyth substation on agricultural land adjacent to the operational transmission network.

The Red Line Boundary (depicted in below figure) covers approximately 7.4 hectares and represents the maximum area currently anticipated to be required for the project, including permanent infrastructure, temporary

construction areas, access arrangements, drainage works and landscaping.

The proposed development would comprise a new STATCOM platform and associated electrical infrastructure connected to the existing substation by approximately 400m of UGC.

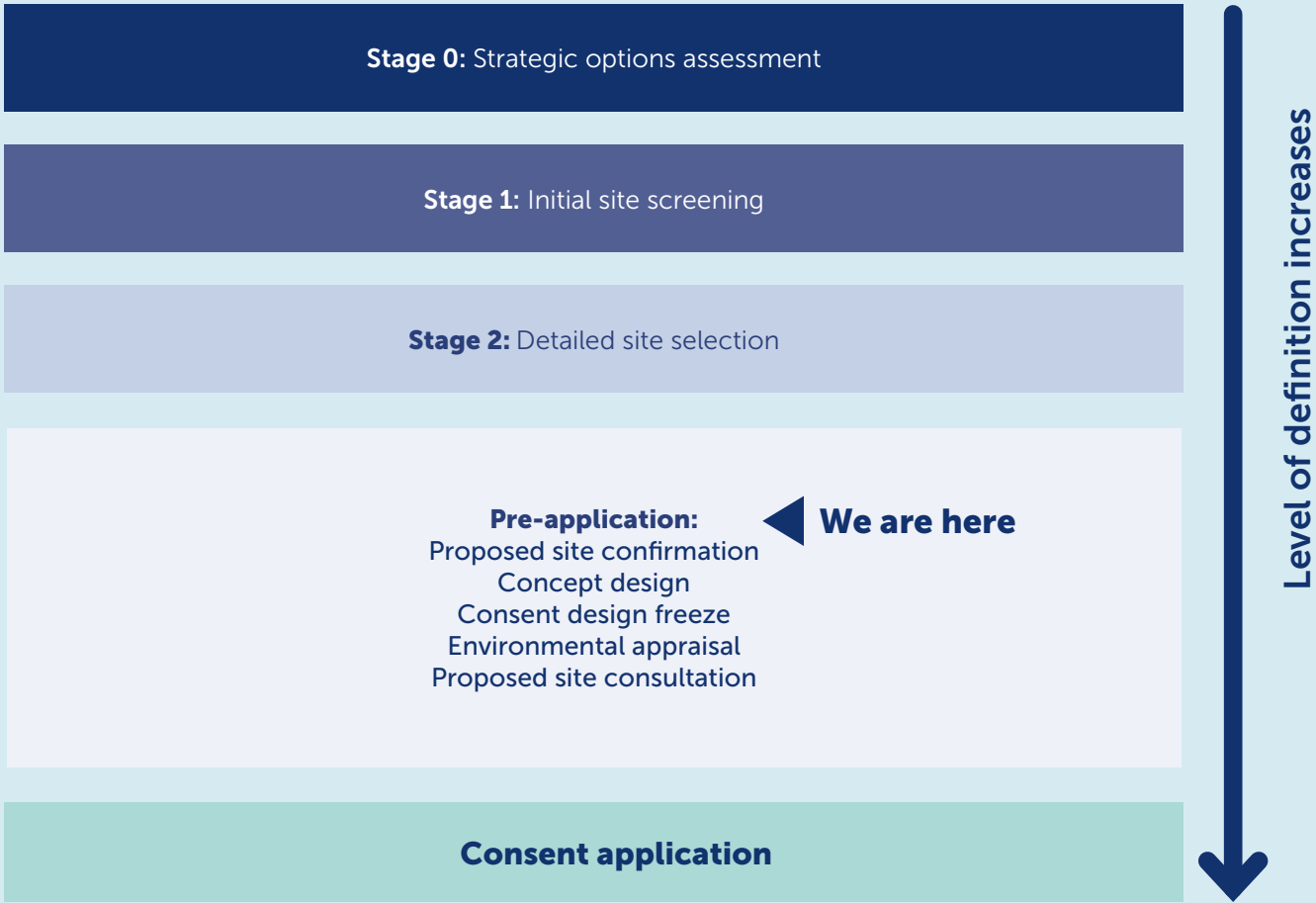


Site location plan

Our site selection process

Our site selection process makes sure the design, consenting, construction and operation of our projects are undertaken in a manner, which on balance, causes the least disturbance to the environment and the local community, while ensuring the solution being taken forward is economically and technically practical.

To do this we follow an internal process supported by third party environmental and technical experts. This has many key stages, each increasing in detail and definition and bringing technical, environmental, people, and cost considerations together to find a balanced outcome.



Twenty two site options were identified within a 5km radius of the existing Alyth substation, and assessed for suitability based on factors including size, access, topography and the nature of technical and environmental constraints. When the site selection process began, the project needed to consider the possibility of building a much larger development. This included a new 400kV substation. The initial search therefore considered larger areas of land that could accommodate all the equipment that might have been required.

As the project developed and further technical studies were completed, the preferred technical solution evolved, and the overall land requirements reduced. A full new substation was no longer needed. This reduced the amount of land required for the development and allowed the project team to consider smaller sites closer to the existing Alyth substation.

These smaller areas were added as later site options. They were not overlooked during the earlier assessment. Instead, they became suitable options because the project requirements had changed and a smaller development could be considered. Locations closer to the existing substation, including the potential use of land already owned or used by SSEN Transmission, could therefore be assessed as part of a more proportionate site selection process aligned with the refined project requirements.

The original site reference numbers have been retained to provide a clear and transparent record of how the site selection process developed. This means that the numbering may not appear in sequence within the consultation document, as some earlier options were removed from further consideration following technical, environmental and site selection assessments. Retaining the original numbers allows each option to be traced through the assessment and helps demonstrate how the potential site was identified.

The proposed substation platform is anticipated to be approximately 130m x 100m. Additional space will be needed for temporary construction activities, landscape bunding, drainage, access tracks and measures to support Biodiversity Net Gain (BNG). The location plan shown earlier in the booklet shows the total area available, but not all of this land may be needed for the development.



Overview of site selection process

Stage 0: Strategic options assessment

The initial high-level stages of site selection include requirements such as being in proximity to the existing Alyth substation network, minimising the extent of new infrastructure required for the connection. The area must be large enough to accommodate the required substation footprint, together with associated landscaping, temporary compounds, and access tracks. Finally, the site must aim to avoid environmental designations and minimise the impacts on local environmental receptors.

Stage 1: Initial site screening

The initial 22 sites were assessed using publicly available data and multi-criteria analysis (MCA) to provide high level constraints information. This allowed the project team to identify areas which were too sensitive, constrained or technically challenging for the construction of a new substation. Through this high-level review process, the project team were able to refine the number of options down from 22 to 8 options.

Assessment of the refined (less constrained) options was undertaken against the key requirements (engineering and environmental topic areas) and using the Red, Amber, Green (RAG) criteria. This resulted in sites being discounted from further assessment based on access constraints, land use impacts and environmental sensitivities.

The assessment enabled identification of the most technically feasible and lowest-risk options to progress into the Stage 2 assessment process. These were identified to be Site Options 16, 20, 21 and 22.

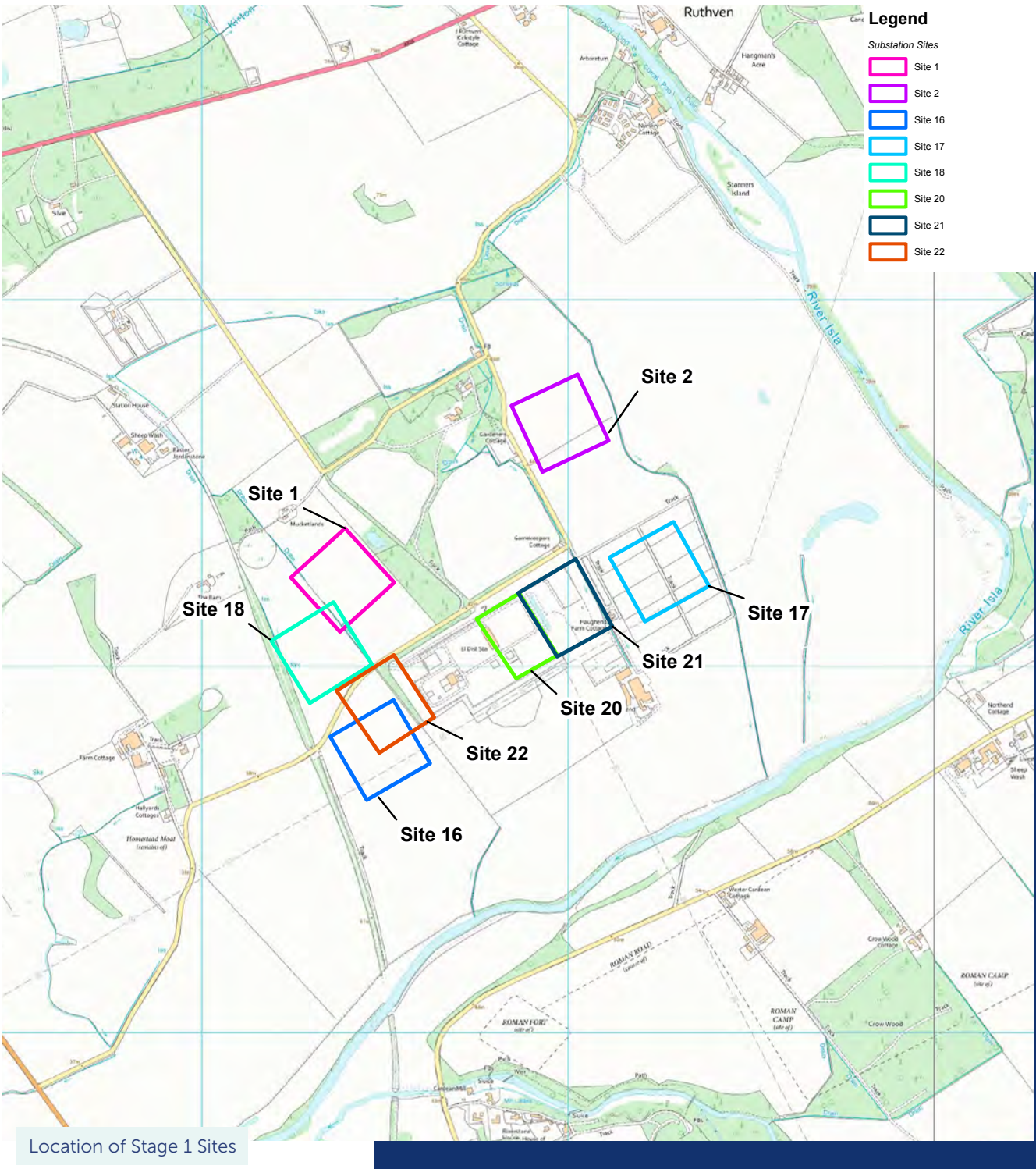
A summary of the refined options discounted at stage 1 is provided below:

Site 1: is located on Class 2 (land capable of producing a wide range of crops) prime agricultural land with trees to the north east. The site is 323m north west of the existing Alyth substation with a relatively moderate slope rising away from the existing substation. This site introduced increased engineering constraints in particular a longer UGC connection to the existing substation, access and constructability concerns.

Site 17: is located on Class 2 (land capable of producing a wide range of crops) prime agricultural land and is located 370m east of the existing Alyth substation. The terrain is relatively flat and is currently in use for animal husbandry. A site and monument record entry (NO24NE108) is located within the southwestern section of site 17, and the site is within 40m of a tributary of the River Isla. This site also had increased complexity in terms of construction access and interface with surrounding land uses.

Site 2: is located on Class 2 (land capable of producing a wide range of crops) prime agricultural land and is located 468m northeast of the existing Alyth substation. The site is bounded by the road to the west and south west and is relatively flat terrain. It is located only 30m west of a tributary of the River Isla and has habitat suitability for water vole and is 40m south east of an area of Long-Established Plantation Woodland.

Site 18: is located on Class 2 (land capable of producing a wide range of crops) prime agricultural land and is located 354m west of the existing Alyth substation. It is relatively flat but slopes upwards towards the north west, with a relatively moderate rise beyond the site boundary. The site hosts habitat with potential suitability for roosting, commuting and foraging bats, and contains native wet woodland. There is also a core path ALTH/141 that passes adjacent to site 18, approximately 5m west.



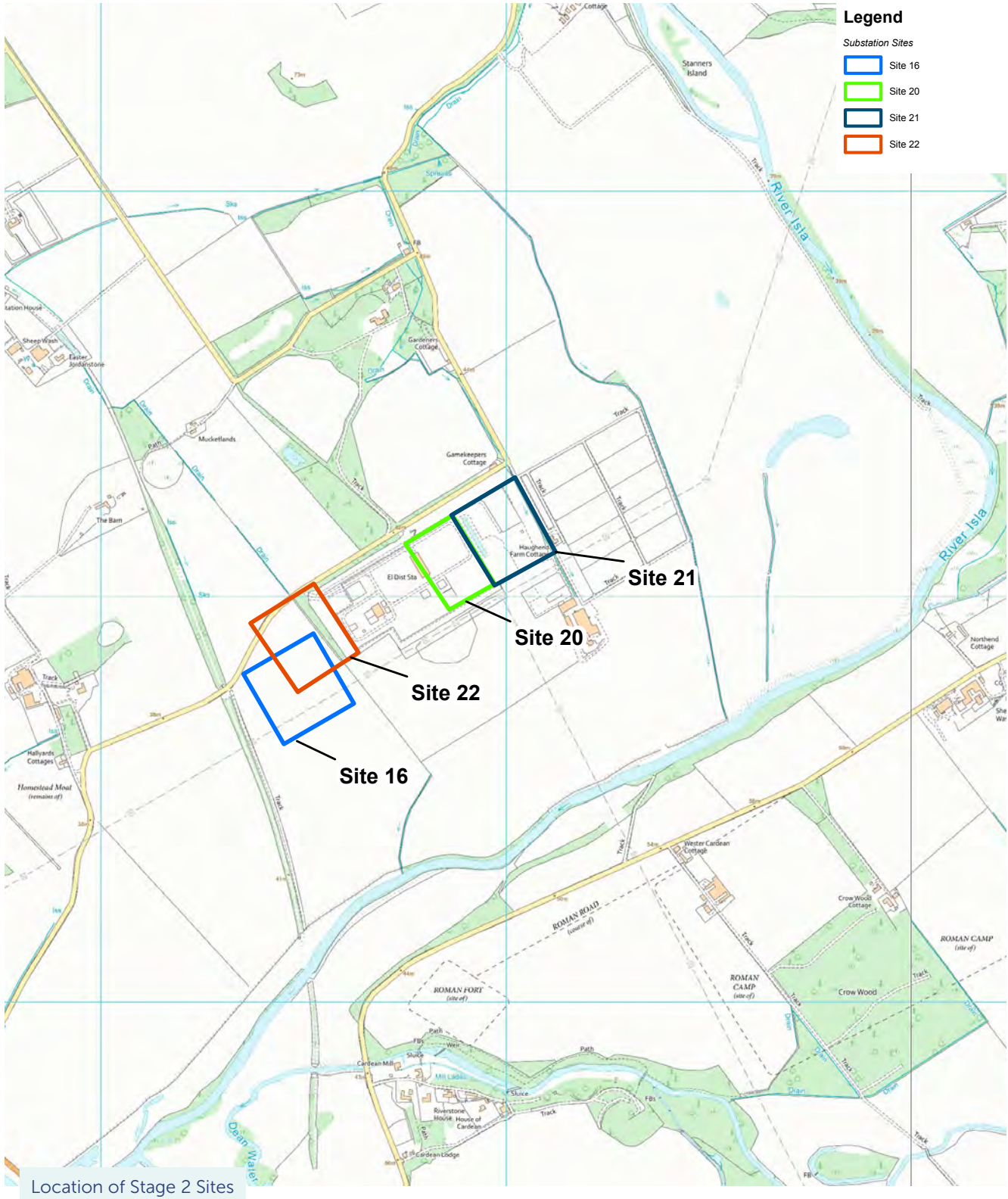
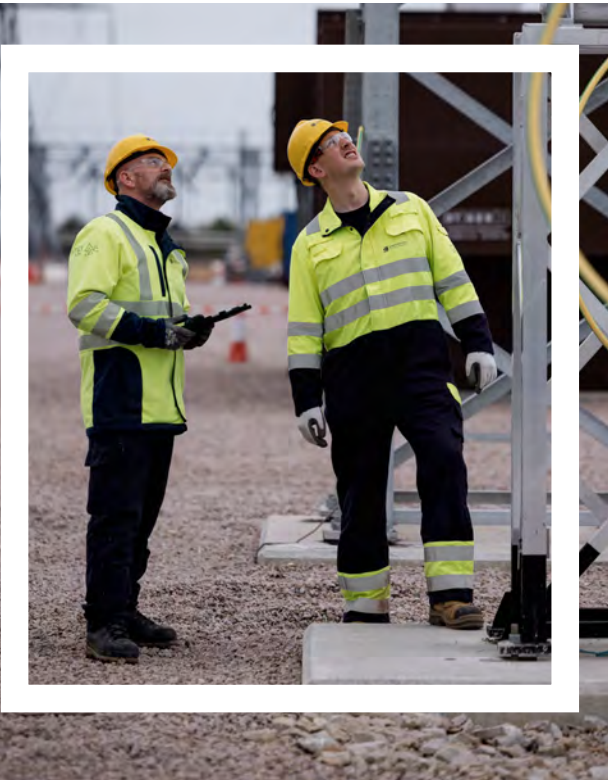
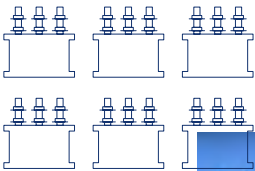
Stage 2: Detailed site selection

As part of the detailed site selection process, we considered in more detail the four sites which made it through the initial site screening; sites **16, 20, 21** and **22**. Further assessments were undertaken by specialist Engineering and Environmental teams, and a cost assessment was also carried out.

Site 16: This site was preferred from an engineering perspective. However, on balance when considered against the other sites a new standalone site was not considered to be the preference in this instance when there were suitable opportunities to extend and connect into the existing Alyth infrastructure. This option would also be more costly than the potential site chosen.

Site 21: The already established boundaries of this site (roads) created challenges for engineering due to the limited layout flexibility and less favorable connectivity and construction complexities. This site also had the highest biodiversity value and was identified to have limited screening opportunities between the site and Haughend Cottage raising landscape and visual challenges.

Site 20: This site was best from an environmental perspective as it was the least constrained across all the environmental factors. However, this was the least favorable from an engineering perspective as it is located within the existing substation, the interaction with live infrastructure creates additional challenges for outages, sequencing of work and limited working space.



RAG assessment criteria

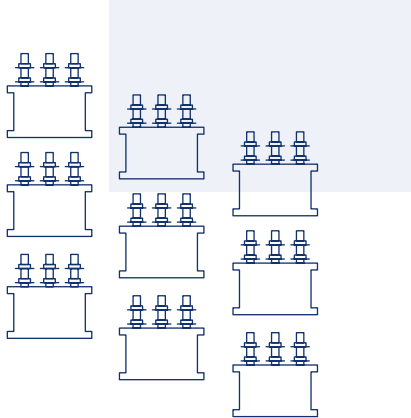
Stages 1 and 2 of the site selection process apply a Red Amber Green (RAG) risk assessment scoring for technical, environmental and economical aspects.

The criteria used and the outcomes of the assessment are shown in the diagram below.

Performance	Comparative appraisal
Most preferred ↓ Least preferred	Low potential for the development to be constrained
	Intermediate potential for the development to be constrained
	High potential for the development to be constrained

RAG table for four stage 2 sites below:

Category	Site 16	Site 20	Site 21	Site 22
Engineering				
Connectivity:				
Existing circuits/Networks				
Future development possibilities				
Interface with SSEN Distribution and Generation				
DNO connection				
Footprint requirements:				
Technology				
Adjacent land use				
Space availability				
Hazards:				
Unique hazards				
Existing hazards				
Ground conditions:				
Topography				
Geology				

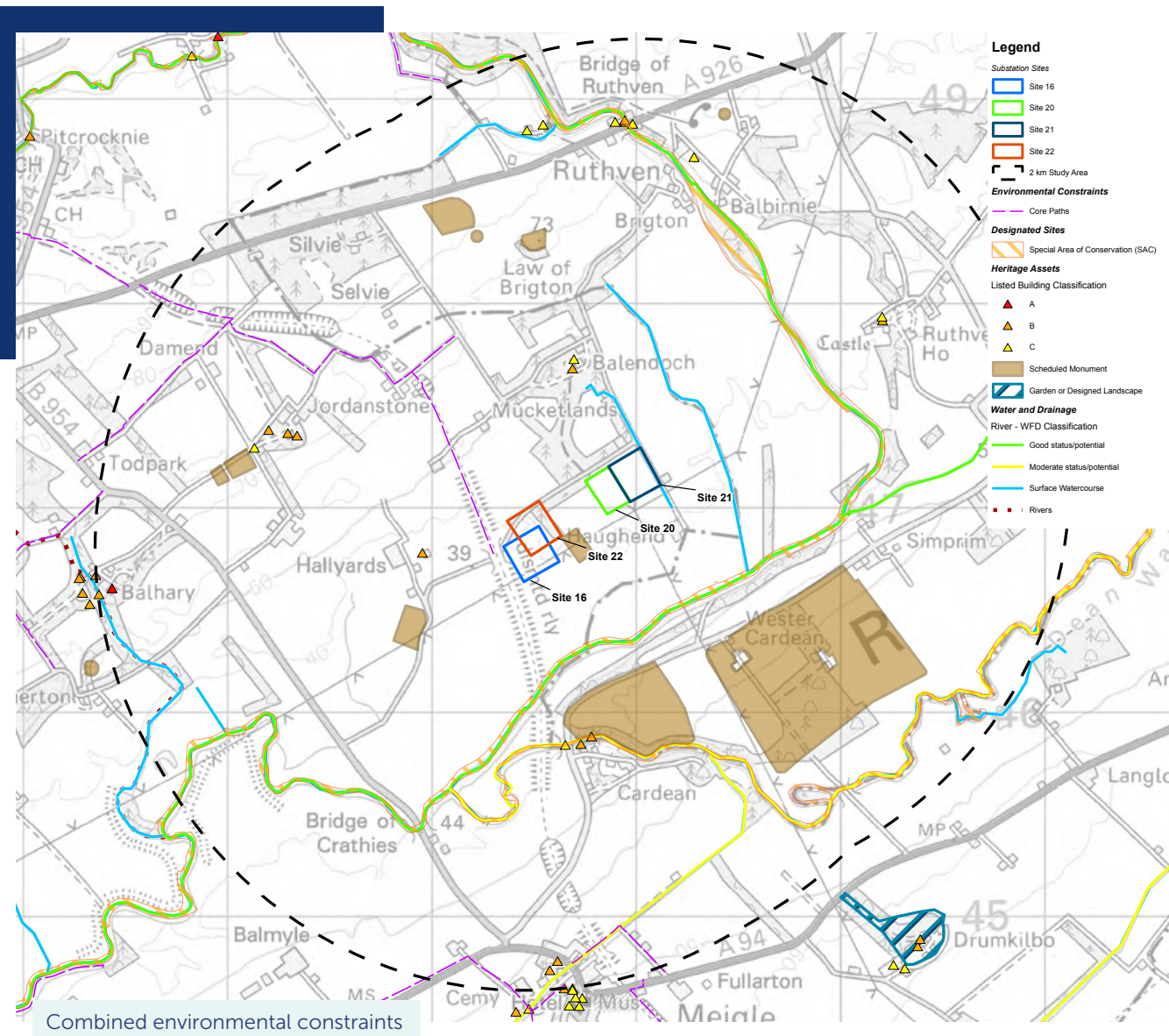


Category	Site 16	Site 20	Site 21	Site 22
Environmental conditions:				
Elevation				
Salt pollution				
Flooding				
Carbon footprint				
SF6				
Contaminated land				
Noise				
Substation access road (from public road)				
Transformer delivery route				
Access				
Environmental/Consent				
Natural heritage:				
Designation				
Protected species				
Habitats				
Ornithology				
Hydrology/Geology				
Cultural heritage:				
Designation				
Cultural heritage assets				
Landscape and visual:				
Designation				
Landscape character				
Visual				
Land use:				
Agriculture				
Woodland/forestry				
Recreation				
Planning:				
Policy				
Proposals				
Cost				
Capital				
Operational				

Potential site

Following the comparative assessment of the shortlisted site options, **Site 22 has been identified as the favoured location for the proposed development.** The site performs well across the environmental, engineering and cost criteria, with the identified environmental constraints considered manageable through the developing design and appropriate mitigation. Taking account of environmental effects, engineering feasibility, deliverability and overall project cost, Site 22 was considered to provide the most balanced solution for the development.

Site 22 has been identified as the favoured location for the proposed development.



Proposed substation layout

The proposed STATCOM compound has been positioned immediately south west of the existing Alyth substation. The proposed development will seek to minimise cut and fill while allowing for electrical connections, drainage and surface water management. The design will also seek to limit effects on the surrounding agricultural land and retain viable field areas where practicable.

Landscape mitigation is being developed as part of the emerging design. This may include landscape bunding and planting with native trees, shrubs, grasses and other locally appropriate species. These measures would help screen views of the development, reduce landscape and visual effects, and provide opportunities to improve biodiversity.

Access to the proposed development is currently anticipated from Balendoch Road (U100). The detailed access arrangements are still being assessed and will need to provide safe access for construction traffic and future maintenance vehicles.

A security fence will be erected around the perimeter of the compound. The type, height and appearance of the fencing will be confirmed as the design progresses.

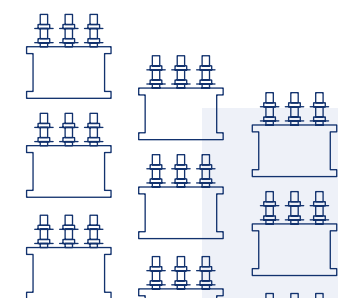
The detailed lighting strategy has not yet been defined. Lighting will be kept to the minimum required for safe operation, maintenance and security. Where lighting is required, fittings will generally be positioned at a low level, directed downwards and designed to minimise glare and light spill beyond the site. The positioning of equipment, landscaping and screening will also be considered when developing the lighting design to reduce potential effects on nearby properties and the surrounding area.



Existing Alyth substation



Indicative extension to Alyth substation



What we're consulting on

We are seeking feedback on our proposals for new reactive compensation equipment on land immediately south west of the existing Alyth substation.

The proposed equipment is required to help manage voltage levels on the electricity transmission network and support its continued safe, secure and reliable operation and would contain specialist electrical equipment known as a STATCOM, together with the supporting infrastructure needed to connect, operate and maintain it.

The most favourable location has been identified following consideration of a number of potential sites around the existing Alyth substation. Site 22, immediately south west of the existing substation, is currently considered to provide the best overall balance of engineering, environmental, land and project delivery considerations.

Project elements

Although the design is still to be finalised, the proposed development is expected to include:

- a new level platform and secure compound containing the STATCOM equipment;
- associated transformers, reactors, switchgear, cooling equipment and other electrical plant;
- control, protection, communications and auxiliary equipment;
- UGC connecting the new facility to the existing Alyth substation;
- works within or immediately adjacent to the existing substation to complete the connection to the transmission network;
- permanent access arrangements, currently anticipated to be from Balendoch Road (U100);
- internal access roads and areas of hardstanding to support the construction, operation and maintenance of the facility;
- foundations and supporting structures for the proposed electrical equipment;
- drainage infrastructure, including a Sustainable Drainage System (SuDS) and a proposed SuDS basin to manage surface water runoff;
- security fencing, gates and lighting required for the safe and secure operation of the facility;
- site clearance and limited removal of existing vegetation where necessary;
- landscaping and screening measures, including the retention of existing trees where practicable; and
- temporary construction areas for welfare, parking, storage, equipment laydown and other construction activities.

Construction is expected to involve site preparation, earthworks, formation of the platform extension, installation of drainage, construction of equipment foundations and delivery and installation of the electrical equipment. UGCs would then be installed between the new facility and the existing Alyth substation.

Temporary construction areas would be removed once the main works are complete, and land that is not required for the permanent development would be reinstated where practicable.

What we would like your views on

We are still developing our proposals and would welcome your feedback before the design is finalised. Your views will help us understand local priorities and identify any issues or opportunities that should be considered as the project progresses. We would particularly welcome your views on:

- our proposals and proposed site location;
- any environmental or local features you think we should consider;
- anything you think we may not have considered as the design develops; and
- any areas where you would like further information.

The proposals shown at this consultation are indicative and may change as further surveys, environmental assessments and technical studies are completed. This includes ongoing work to refine the equipment layout, platform levels, access arrangements, drainage design, cable connections, landscaping and temporary construction requirements.

All feedback received during this consultation will be reviewed by the project team and considered alongside the technical and environmental assessment work. The feedback will help inform the next stage of design development, ahead of further consultation and the submission of a planning application.



Town and country planning

The legislation that enables the consenting of projects like the Alyth substation extension is the Town and Country Planning (Scotland) Act 1997.

Engaging the right people

The planning authority responsible for determining the planning application will be Perth and Kinross Council. The planning application will be made under the Town and Country Planning (Scotland) Act 1997. The status of the proposals as Environmental Impact Assessment (EIA) Development, is determined by the Town and Country Planning (Environmental Impact Assessment) Regulations 2017. An EIA screening request under these regulations was submitted to Perth and Kinross Council on 21 August 2026. Depending on the screening opinion adopted by Perth and Kinross Council, the future planning application will either be supported by an EIA Report, or a voluntary Environmental Appraisal (EA) Report.

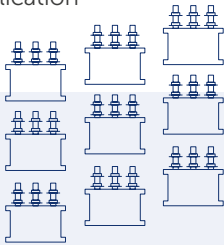
We will continue to progress environmental studies and, if required, submit an EIA scoping request in due course to establish the scope of the EIA Report. Once the application is submitted, the EIA Report or the voluntary EA Report will be made publicly available.

Pre-Application Consultation is required for all prospective planning applications falling in Major or National Planning categories, as defined by the Town and Country Planning (Hierarchy of Developments) (Scotland) Regulations 2009. National Planning Framework 4 (NPF4) defines what is categorised as National Development. Under National Development 3 in NPF4, all new and/or upgraded Infrastructure directly supporting high voltage electricity lines, cables and inter connectors, including substations, that would otherwise be categorised as Major, is automatically considered National Development. We are therefore required to undertake pre-application consultation with the public and interested parties.



The pre-application process

A Proposal of Application Notice (PAN) was submitted to Perth and Kinross Council on 18 September 2026. This is the first stage in the planning application process, and the beginning of a consultation period that must allow for at least 12 weeks between the start of the pre-application consultation and feedback, and submission of a planning application. The plans we are consulting on at this event might change between now and the submission of a planning application. The red line boundary that has been submitted with the PAN represents the maximum extent of the land potentially included in the application site, but this area may be reduced or rationalised as the development proposal becomes finalised. There is a requirement to hold at least two events to provide the opportunity for members of the public to comment on the proposals and for SSEN Transmission to provide feedback on comments received. This public event is the first event. A second event will be held in April 2027 at which feedback will be given on the views obtained at the first event. There will also be a short opportunity for comment after this second event and comments will be included in a Pre-application Consultation (PAC) Report.



Submitting a planning application

We aim to submit the planning application to Perth and Kinross Council in quarter 3 (Q3) of 2027. A Pre application Consultation Report will accompany the planning application providing details of the consultation undertaken and communicating how the consultation process has influenced the proposed development. Where comments are received that cannot be addressed in the final proposal, an explanation will also be given why this is the case. Comments made through the pre-application consultation process are not representations to Perth and Kinross Council. When the planning application is submitted there will be an opportunity to make formal representations to Perth and Kinross Council.

Development considerations

During the development, we have taken into account many of engineering, environmental and social considerations to establish a practical proposed site for the extension to the substation.

Now that we have identified a potential site, we are able to share further details regarding many of our development considerations.

Water, soils and drainage

The potential site is located on agricultural land immediately south west of the existing Alyth substation. Ground investigations are being undertaken to improve our understanding of soil, rock and groundwater conditions across the site.

The results will help inform the design of the development platform, foundations, earthworks, cable routes and drainage infrastructure. The design will take account of groundwater levels and seek to avoid unnecessary excavation or disturbance where practicable.

A Sustainable Drainage System (SuDS) will be incorporated into the development to collect, control and manage surface water runoff. This is expected to include drainage channels, pipes and a new SuDS basin, with the final design informed by site surveys and flood risk and drainage assessments.

The platform levels will be designed to provide a suitable and resilient base for the proposed electrical equipment. Existing watercourses, field drains and other drainage features will be considered as the design develops.

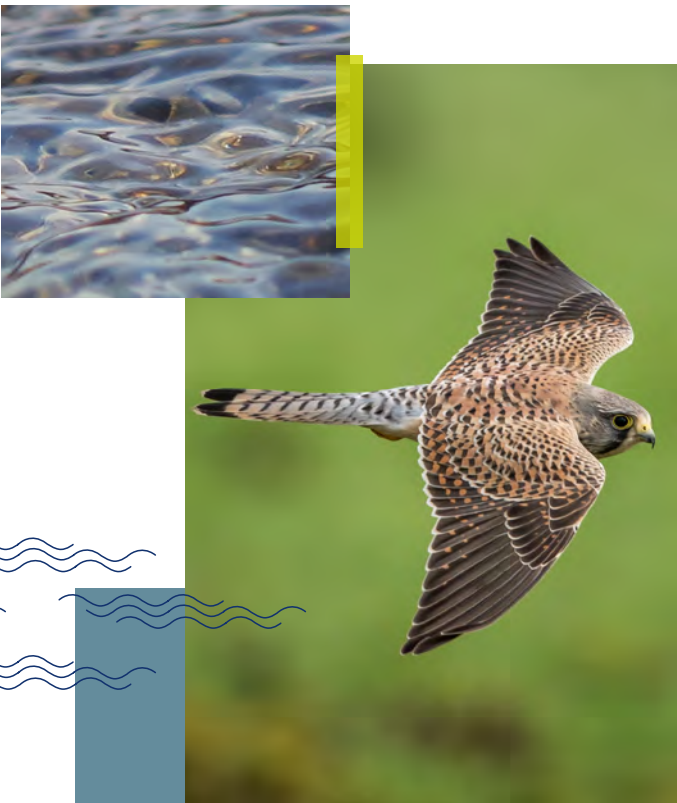
Topsoil and suitable excavated materials will be stored and reused within the site where practicable. This will help reduce the volume of imported material and the amount of surplus material requiring removal.

During construction, measures will be implemented to reduce the risk of sediment, fuel, oil or other pollutants entering the surrounding drainage network or water environment.

Local wildlife and ecology

A series of detailed environmental surveys are ongoing to help inform our understanding of the site and how the proposed development could affect local wildlife and natural habitats. These surveys cover a range of species, and the findings will help identify any potential impacts and inform any required mitigation that we need to implement as the project develops.

Consideration has also been given to the Osprey nest and consultation will be carried out with Osprey expert, Roy Dennis MBE, who helped advise the design of the purpose-built nest as well as the mitigation measures to be taken during the early construction phase of the initial Alyth substation project as well as NatureScot to ensure the nest is suitably protected.



Noise

The site is located beside the existing operational Alyth substation and near a small number of residential and agricultural properties. Existing background noise in the area is generally associated with the substation, road traffic, agricultural activity and the surrounding rural environment.

Construction may result in temporary noise and vibration from activities such as site clearance, earthworks, excavation, foundation construction, vehicle movements and the installation of electrical equipment.

These effects will be managed through appropriate construction methods and good site practice. This may include agreed working hours, suitable maintenance of construction plant, controls on vehicle movements and locating noisier activities away from nearby properties where practicable.

During operation, some electrical equipment, including transformers, cooling equipment and associated plant, may generate noise. A noise assessment will be undertaken to consider potential effects at nearby properties and inform the developing design.

Where required, mitigation could include the selection of quieter equipment, acoustic enclosures or barriers, changes to the equipment layout and the use of existing or proposed screening.

Operational noise will continue to be considered as the equipment specification and layout are developed.

Size

The proposed compound must provide sufficient space for the STATCOM and associated electrical equipment, as well as control, protection, auxiliary and communications infrastructure.

The layout must maintain the required electrical safety clearances, fire separation distances and access for construction, operation, inspection and maintenance. Space must also be available for cranes and other specialist vehicles that may be required to install, maintain or replace major items of equipment.

The compound is expected to include the main electrical equipment, internal access roads, equipment foundations, security fencing, drainage infrastructure and areas of hard standing. Temporary working and laydown areas will also be required during construction.

The layout will continue to be refined as further technical information becomes available. The project team will seek to minimise the overall footprint and equipment heights where practicable while ensuring the facility can be constructed and operated safely.



Traffic

Access options for the proposed development are currently being assessed. Any emerging access arrangement would be developed to provide safe access for construction traffic and future maintenance vehicles, subject to further technical assessment and consultation.

During construction, traffic will include deliveries of stone, concrete, steel, electrical equipment and other materials. Cars, vans, Heavy Good Vehicles (HGVs), Light Good Vehicles (LGVs), construction plant and specialist delivery vehicles will also require access to the site.

Some larger items of electrical equipment may need to be delivered using abnormal-load vehicles. The proposed delivery routes, road widths, junction arrangements, gradients and turning requirements will therefore be assessed as the design develops.

Temporary construction areas are expected to include welfare facilities, parking, material storage and equipment laydown areas. These will be positioned to support safe vehicle movements and reduce disruption to surrounding roads and land uses where practicable.

Before construction begins, a construction traffic management plan will be prepared. This is expected to set out the proposed vehicle routes, delivery arrangements, traffic management measures, road-cleaning requirements and measures to protect other road users.

Once operational, traffic associated with the development is expected to be limited, with visits mainly required for routine inspections, planned maintenance and occasional repairs.

Landscape and visual

There are no national or regional landscape designations within 2km of the site. Landscape and visual walkover surveys are ongoing, and viewpoint photography will be carried out to help inform a landscape and visual assessment of the proposed development. As noted previously, a planting scheme will be developed to help mitigate any adverse landscape and visual impact that may arise due to the proposal.

Forestry

It will unfortunately be necessary to remove an area of established trees along the western boundary of the existing Alyth substation. We recognise the value these trees bring to local wildlife, biodiversity and the wider landscape. The extent of removal required to facilitate the development is an ongoing consideration and we are looking to ensure only the minimum number of trees necessary to create a resilient development are removed. To ensure the project delivers on overall biodiversity net gain, we will introduce a planting scheme in the vicinity of the proposals. This will create new habitats for wildlife and will be designed to maximise natural screening to soften the views of the development in the landscape

Connections

The proposed reactive compensation equipment will connect to the existing transmission network at Alyth substation.

The connection is expected to be made using underground electricity cables between the new compound and the existing substation. The design may include cable trenches or ducts, cable termination equipment and associated protection, control and communications connections.

The cable route is being developed to provide a safe and efficient connection while taking account of existing services, drainage features, access roads, electrical clearances and other site constraints.

Locating the new development immediately beside Alyth substation helps to limit the overall length of the connection and the extent of additional electrical infrastructure required.

Some connection work will be required within or immediately adjacent to the existing operational substation. These activities will be carefully planned and coordinated to protect personnel and maintain the security and reliability of the transmission network.

The detailed connection arrangements and any required outages will continue to be developed with the relevant engineering and operational teams.



Cultural heritage

There are no World Heritage Sites (WHS), Inventory Gardens and Designed Landscapes (GDL), Inventory Battlefields or Conservation Areas within 2km of the site.

There are eight Scheduled Monuments (SMs) found within 2km of the site, the nearest is Haughend, enclosure (Reference: SM7263) which is located approximately 10m southeast of the potential site, the others are all over 500m away.

There are 21 Listed Buildings within 2km of the site, however, these are all more than 400m away from the site.

There are numerous site and monument record entries within 2km of the site, the closest record entry is Alyth substation (Reference: NO24NE147) and Haughend (Reference: NO24NE94) both located within the boundary of Alyth substation.

Further assessments will be carried out to understand any impact the proposed development may have on these assets.

Materials and waste

Construction of the proposed development will require materials including stone, concrete, steel, electrical equipment, cables, drainage products and fencing.

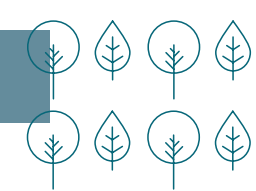
The largest quantities of construction material are likely to be associated with formation of the development platform, access roads, foundations and drainage infrastructure. The quantities required will become clearer as the ground investigation, earthworks and foundation designs progress.

The design will seek to achieve an appropriate balance between excavated and imported materials. Suitable soils and excavated materials will be reused within the site where practicable, for example in landscaping or other earthworks.

Topsoil will be stripped and stored separately to preserve its quality before being reused in areas of reinstatement or landscaping. Any surplus or unsuitable material will be transported to an appropriately licensed facility.

Waste will be managed in accordance with the waste hierarchy, with priority given to reducing, reusing and recycling materials. Construction contractors will also be required to put suitable arrangements in place for the storage and handling of fuels, oils and other potentially polluting materials.

During operation, the facility is expected to produce only small quantities of waste, mainly associated with routine inspection, maintenance and the replacement of equipment. These materials will be reused, recycled or disposed of responsibly where appropriate.



3D visualisations

We understand that local stakeholders need to be able to visualise what the development may look like in their local area.

We've commissioned 3D visualisations which model the substation extension into the local landscape to help understanding of the proposals in terms of the visual impact, distance and height.

The following are some images taken from the 3D model created for the Alyth substation extension project. A flythrough video is also available to view from the project webpage or via the QR code on this page.

The layout and colour of our proposals may change based on feedback and further refinement of the design, if that happens, we'll update our model and video and share this on our webpage and with you at the next event.

Photomontages

Photomontage visualisations will also be produced as part of the EIA Report or voluntary EA Report. Once the EIA/EA is completed, we'll ensure these photomontages are easily available to view.

Scan to see our flythrough video.



Existing Alyth 275kV substation

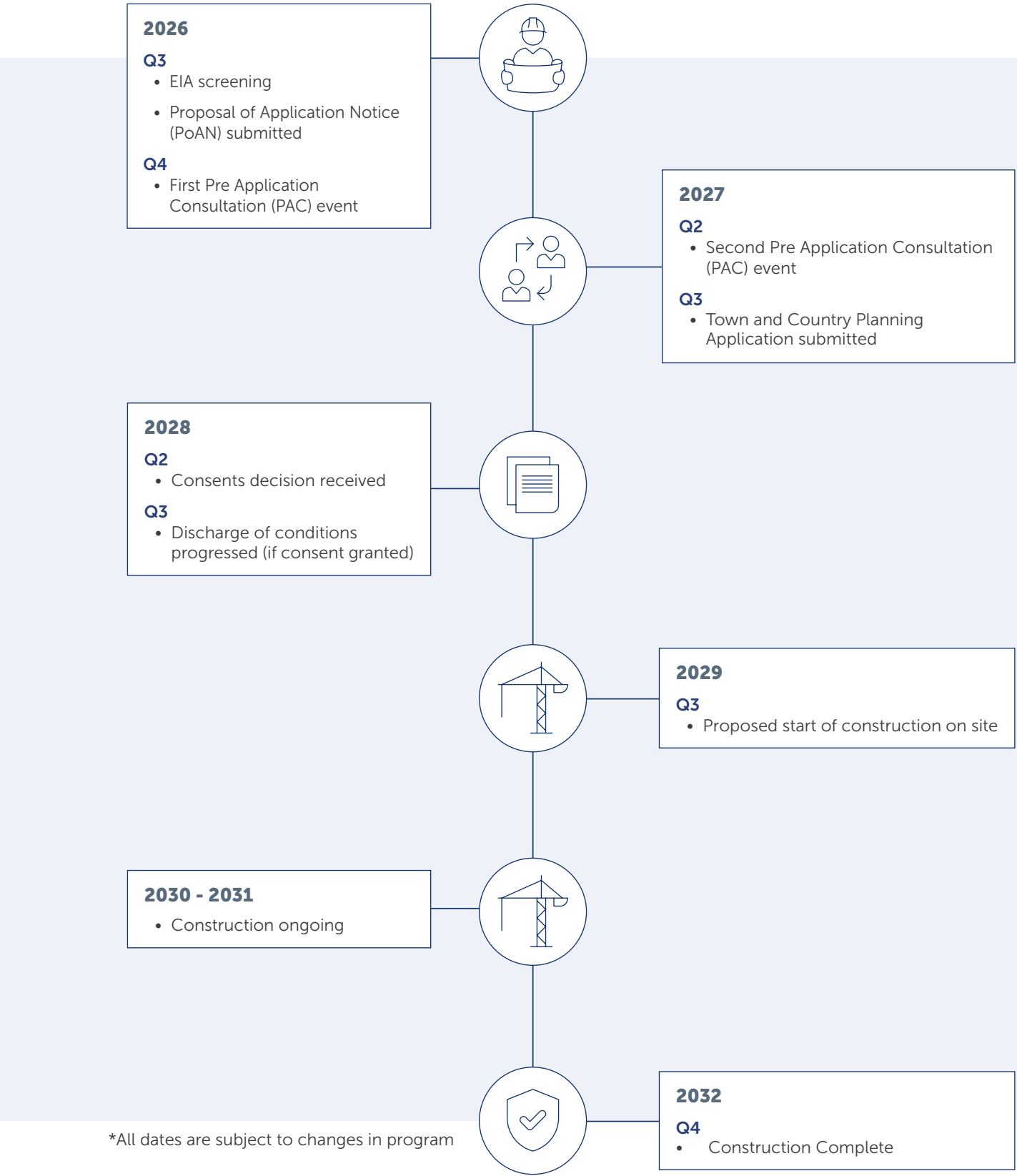


Indicative temporary construction layout



Indicative final layout

Project timeline



Other projects in the local area

As the transmission operator in the north of Scotland, we need to maintain and invest in the high voltage electricity transmission network in our area to provide a safe and reliable electricity supply to our communities.

We also need to offer terms for connections to the transmission network for new generation such as wind farms and pumped storage schemes and for new sources of electricity demand.

Therefore, as well as the Alyth Substation Extension Project, we have a number of other projects within the local area we are currently progressing, described below.

Alyth 400kV Upgrade

With the successful energisation of Alyth substation at 275kV in 2024 we are now preparing to upgrade the substation to 400kV as part of our work under the East Coast 400kV upgrade suite of projects.

Alongside this upgrade, we are progressing a separate customer connection at Alyth. This would involve installing a new 400kV connection bay and associated equipment within the substation, with underground customer cables connecting into the new infrastructure. The project is being coordinated with the wider Alyth 400kV upgrade works to manage shared interfaces and support safe, efficient delivery.

ssen-transmission.co.uk/alyth

Alyth – Tealing – Westfield Overhead Line 400kV Upgrade

To support the increased capacity from the proposed Kintore – Tealing 400kV Connection, the export routes to areas of demand must be upgraded to 400kV. This means the Alyth – Tealing and Tealing – Westfield existing overhead lines, which currently operate at 275kV, need to be upgraded to operate at 400kV.

ssen-transmission.co.uk/Alyth-tealing-westfield-upgrade

New Coupar Angus 132kV Substation

We are proposing to construct a new 132kV substation near Coupar Angus following several new renewable generation connections proposed for our sister company SSEN Distribution's 33kV network in the Coupar Angus area. And the existing Coupar Angus Grid Supply Point (GSP) not being suitable for extension due to potential flooding risks.

ssen-transmission.co.uk/coupar-angus

Local renewable developments:

We know that local stakeholders are keen to understand the full extent of renewable developments being proposed in their local area.

Applications to connect to the transmission network in our licence area are made to National Grid ESO and undergo a lengthy process of assessment before we begin to develop a network connection for those developments.

We aim to be transparent about the renewable developments looking to connect to our network but are not permitted to disclose any details of these developments until they are in the public domain.

A list of projects that hold contracts for Transmission Entry Capacity (TEC) with National Grid, the Electricity System Owner is available from their website:

[TEC Register | National Energy System Operator](#)

Find out about more projects in your area:
[Ssen-transmission.co.uk/projects](https://ssen-transmission.co.uk/projects)



Have your say

We value community and stakeholder feedback. Without this, we would be unable to progress projects and reach a balanced proposal.

The feedback period

We will accept feedback from now until **24 November 2026**

How to provide feedback

Submit your feedback online by scanning the QR code on this page or via the form on our project webpage at ssen-transmission.co.uk/alyth

Email the feedback form to the Community Liaison Manager.

Or write to us enclosing the feedback form at the back of this booklet.

Our Community Liaison team

Each project has a dedicated Community Liaison Manager who works closely with community members to make sure they are well informed of our proposals and that their views, concerns, questions or suggestions are put to our project teams.

Throughout the life of our projects, you will hear from us regularly. We aim to establish strong working relationships by being accessible to key local stakeholders such as community councils, residents' associations and development trusts, and regularly engage with interested individuals.

What we're seeking views on

We want you to share your thoughts and opinions on our plans, where you think we can make improvements, concerns about the impact of our work and any changes or refinements we can make.

We'll be actively looking to mitigate the impacts of the site as much as possible over the coming months, but it would be helpful to understand what you believe we should be doing to help minimise these impacts and if there are any opportunities to deliver a local community benefit you would like us to consider.

We encourage all interested community members to fill in a feedback form when submitting feedback, however if you prefer, you can email us to provide your feedback or ask any questions.

Community Liaison Manager

Louise Anderson

 SSEN Transmission,
200 Dunkeld Road, Perth, PH1 3GH

 07384 454233

 @ssentransmission  SSENTransmission

Additional information:



The best way to keep up to date is to sign up to project updates via the project webpage:

ssen-transmission.co.uk/alyth



To support everyone online, we provide accessibility and language options on our website through 'Recite Me'.

The accessibility and language support options provided by 'Recite Me' include text-to-speech functionality, fully customisable styling features, reading aids, and a translation tool with over 100 languages, including 35 text-to-speech.

Please select "Accessibility" on our website to try out our inclusive toolbar.

Notes

Your feedback

Thank you for taking the time to read this consultation booklet. In order to record your views and improve the effectiveness of our consultation, please complete this short feedback form.

Please complete in BLOCK CAPITALS. (Please tick one box per question only)

Q1.

Do you feel sufficient information has been provided to enable you to understand what is being proposed and why?

Comments:

Yes

No

Unsure

Q2.

Do you have any comments (positive or negative) or concerns in relation to the project, or about the proposed site location (Site 22)?

Comments:

Yes

No

Unsure



Q3. Are there any environmental features, that you consider important and should be brought to the attention of the project team?

Comments:

Yes ☐

No ☐

Unsure ☐

Q4. Is there anything you'd like to bring to our attention that you believe we may not have already considered during project development?

Comments:

Yes ☐

No ☐

Unsure ☐



Q5. Is there anything regarding the Alyth Substation Extension Project proposals that you feel you require more information about? If so, please detail below.

Comments:

Full name:..... **Telephone:**.....

Email:

Address:

We would like to send you relevant communications via email such as invitations to stakeholder events, surveys, updates on projects, services and future developments from the Scottish and Southern Electricity Networks group listed below. If you are happy to receive email updates please opt in by ticking the box below. You can unsubscribe at any time by contacting us at stakeholder.admin@sse.com or by clicking on the unsubscribe link that will be at the end of each of our emails.

☐ **If you would like to be kept informed of progress on the project, please tick this box**

Thank you for taking the time to complete this feedback form.
Please submit your completed form by one of the methods below:

Post: SSEN Transmission, 200 Dunkeld Road, Perth, PH1 3GH

Email: Louise.Anderson@sse.com

Online: ssen-transmission.co.uk/alyth

For information on how we collect and process your data please see our privacy notice available at today's event. This can also be obtained online at: ssen-transmission.co.uk/privacy. Comments forms and all the information from today's event will also be available to download from the project website. We intend to use Artificial Intelligence (AI) to assist our experienced teams in the analysis of your feedback, so we can categorise key points raised more quickly. You can learn more about how we're utilising AI at: ssen-transmission.co.uk/AIFAQ Any information given on the feedback form can be used and published anonymously as part of Scottish and Southern Electricity Networks consultation report. By completing this feedback form you consent to Scottish and Southern Electricity Networks using feedback for this purpose.

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