

Holm Hill 132kV Substation



Welcome to our Virtual Consultation

About Scottish Power Energy Networks

SP Energy Network (SPEN) holds the electricity distribution licence for southern Scotland.



Introduction and Overview

SP Energy Networks (SPEN) has a legal duty under the Electricity Act 1989 to provide grid connections to new electricity generating developments. To facilitate those developments currently contracted for connection (including Lorg, Eucharhead, Shepherd's Rig, Quantan's Hill and Wether Hill windfarms), we require to provide a single point of connection to connect these to the transmission network.

While several windfarms are contracted, we do not anticipate providing individual connections for each to Holm Hill and would seek to consolidate these as far as practical. Any overhead line connections would be subject of separate Section 37 applications to the Scottish Government Energy Consents Unit.

In response to this demand, SPEN is proposing to build a new **132kV air insulated substation** approximately 2 miles north of the village of Carsphairn, off the A713.

SPEN have prepared an initial design for the Holm Hill 132kV substation for consultation as part of the Pre-Application Consultation process.

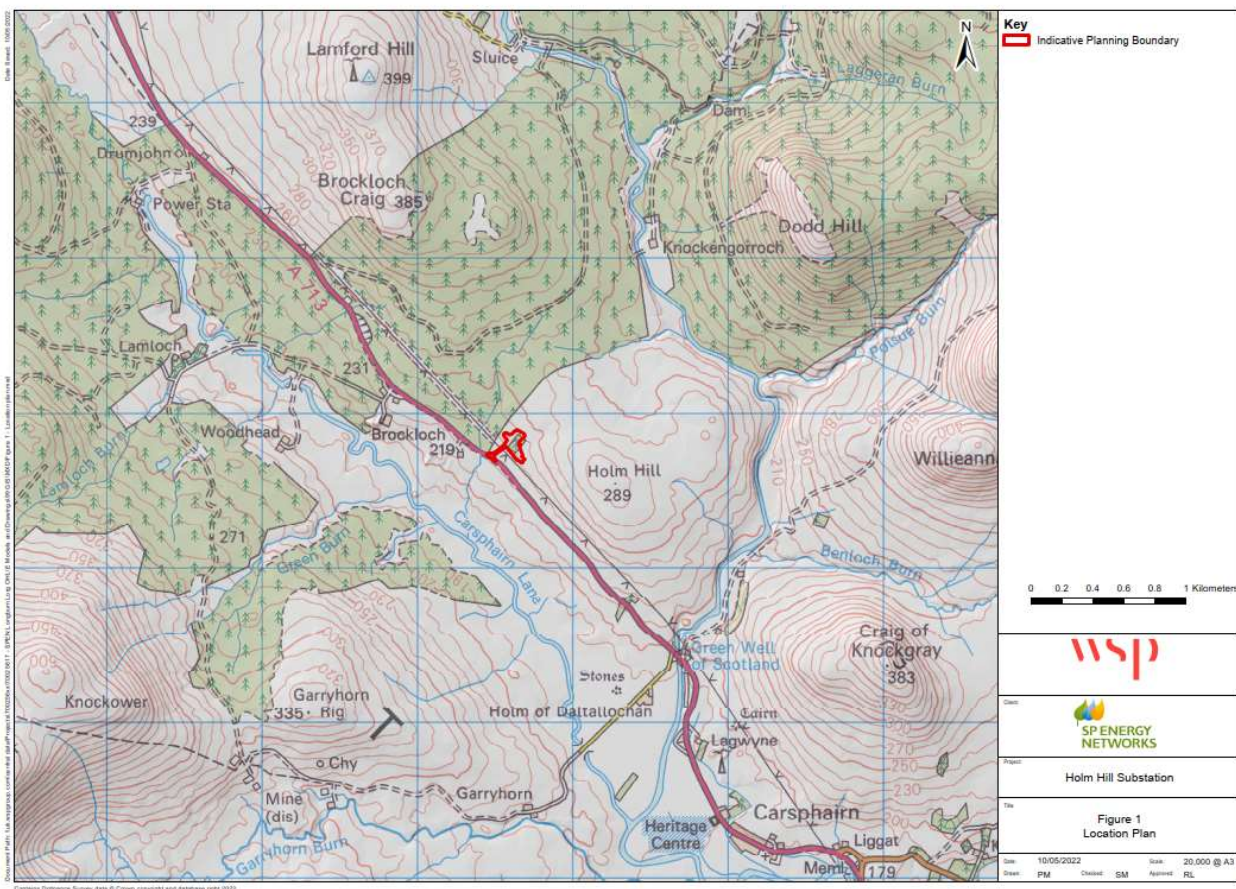
Purpose of the Event

The purpose of this consultation event is to obtain feedback on the initial Holm Hill substation design and provide and update on the progress of the Lorg Wind Farm Grid Connection Project.

Members of the public are invited to provide feedback, comments and discuss the proposed Holm Hill 132kV substation with the project team. The views expressed will be taken into account in the design process and submitted alongside the submission of the planning application



Site Location



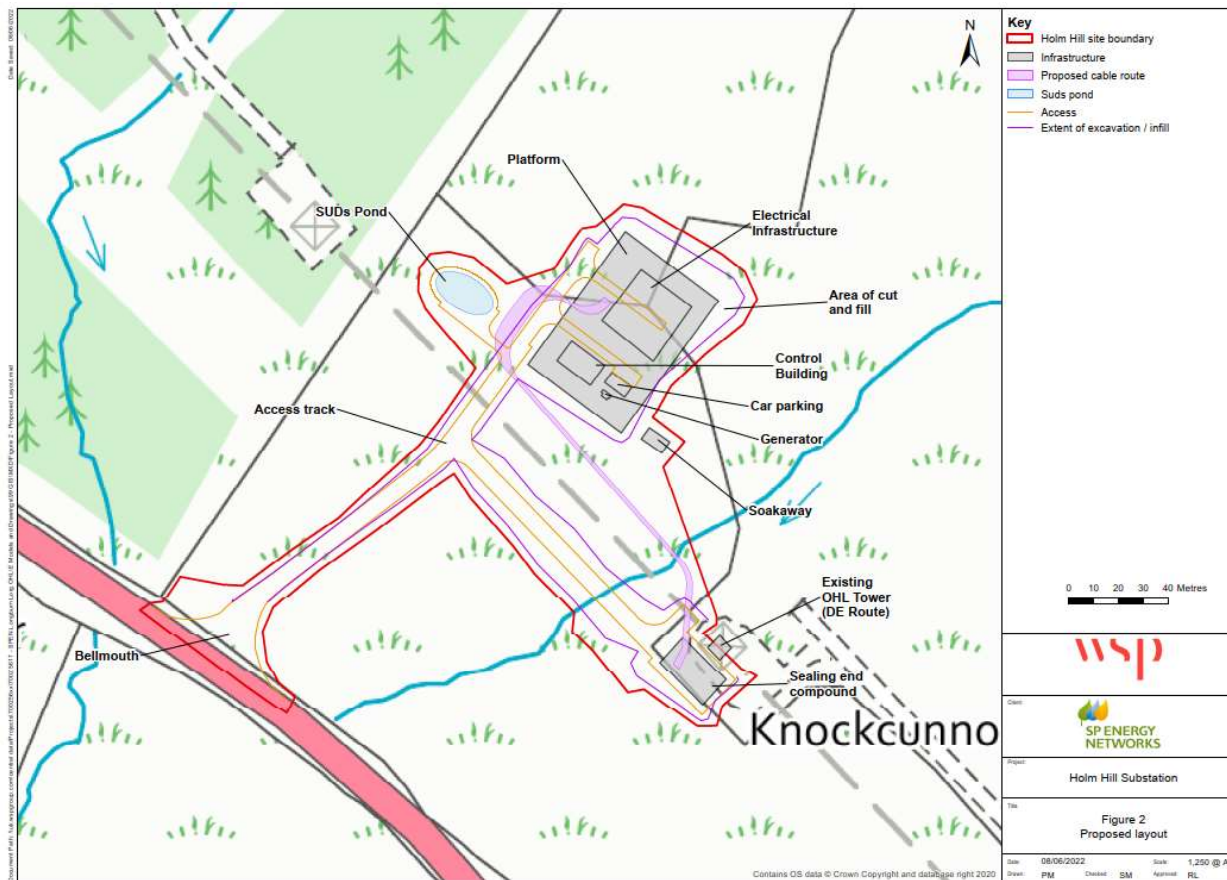
Site Context

The Site connects to the A713 road which is part of the Galloway Tourist Route and is immediately adjacent to the electricity transmission line which it will connect to.

The predominant land use within and surrounding the site is open moorland and rough grazing with areas of plantation forestry/woodland.

Ecological surveys have been done and there are no signs of protected species other than otter in the vicinity of the site.

Holm Hill Substation Site Plan



Substation Dimensions

- Preliminary planning application boundary, including operational electrical areas and ancillary development is approximately 2.0 Ha
- Operational area (substation platform) is approximately 0.3 Ha
- Substation platform dimensions: 600 x 405 m
- Substation building height: maximum 5 m
- Bellmouth to be designed to Roads Authority requirements

Proposed Development

The location of the Proposed Development is broadly as originally identified as suitable for a compound to connect the initial Lorg & Longburn overhead line into the transmission network and it is proposed that the revised scheme (connecting Lorg Wind Farm) will also connect at this point.

A substation is required to provide adequate protection to the connected circuits. In line with SPEN's license requirements this proposed solution is the most economic, efficient and electrically complaint solution.

The proposed development will comprise:

- new platform area, control building, electrical infrastructure, generator, car parking and separate sealing end compound
- three 33kV metering breakers to facilitate windfarm connections
- two 132kV transformers and other electrical plant comprising switchgear, busbars and overhead line (OHL) gantry which would be up to 10m in height;
- all associated cabling and protection and control works, and
- associated ancillary development works (including earthworks, provision of a new access road, security fencing, CCTV, lighting, a sustainable drainage system (SuDS) including a soakaway and SUDs pond.

What's Next

Consultation Period to
10 July 2022

SPEN are undertaking consultation as part of the Pre-Application Consultation stage to allow members of the public the opportunity to provide feedback, comments and discuss the Proposed Development with the project team.

Proposed Substation
Design

Following this public consultation period, we will look to take into account any feedback in the detail design of the proposed substation, which will include landscape mitigation proposals to support a subsequent application.

Environmental
Appraisal

An Environmental Appraisal will be prepared to determine likely effects on the environment, identify mitigation measures and to refine the design.

Public Information
Event

Ahead of an application being made, a public information event will be held to share details of the proposed design.

Planning Application

We anticipate an application being made before the end of 2022 to Dumfries & Galloway Council. There will be a further opportunity to comment as part of the formal planning application process.

Questions and comments

We are asking for your feedback on the proposed Holm Hill 132kV Substation. Your input and comments are valuable and most welcome.

The views expressed will be taken into account in the design process and submitted alongside the submission of the planning application.

Further consultation materials available from:

http://www.spenergynetworks.co.uk/pages/holm_hill_substation.aspx

Have Your Say

If you would like to comment on any aspect of this project please contact us via one of the following methods:

- Ask a question during the consultation event via the chat function
- Complete the feedback form available at the link above
- Email us at: holmhillss@spenergynetworks.co.uk
- Or call on 07516461129

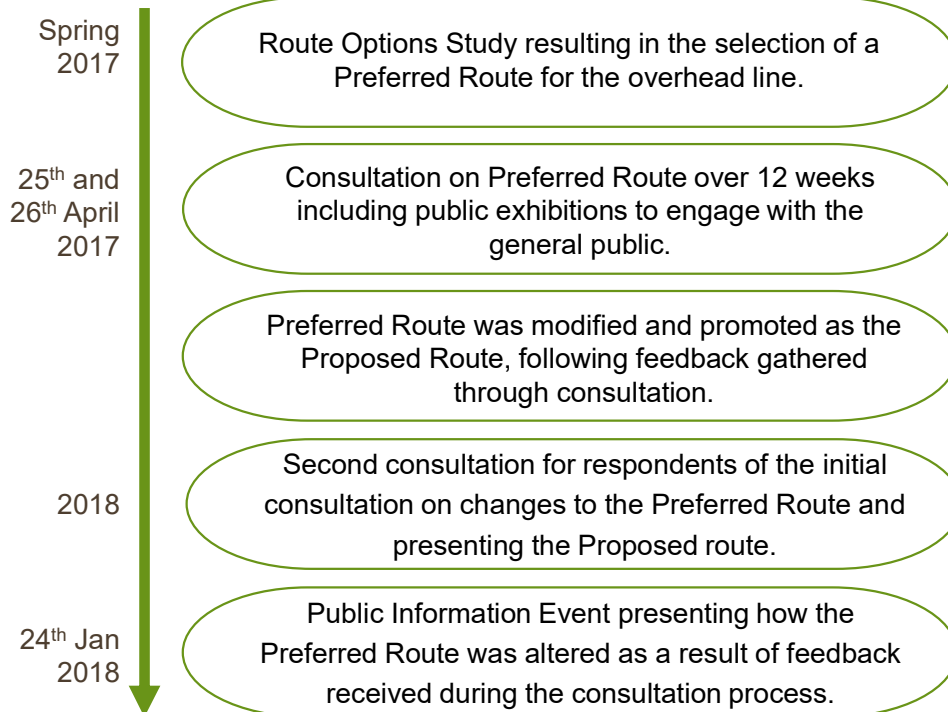


Lorg Wind Farm 132kV Grid Connection

Update



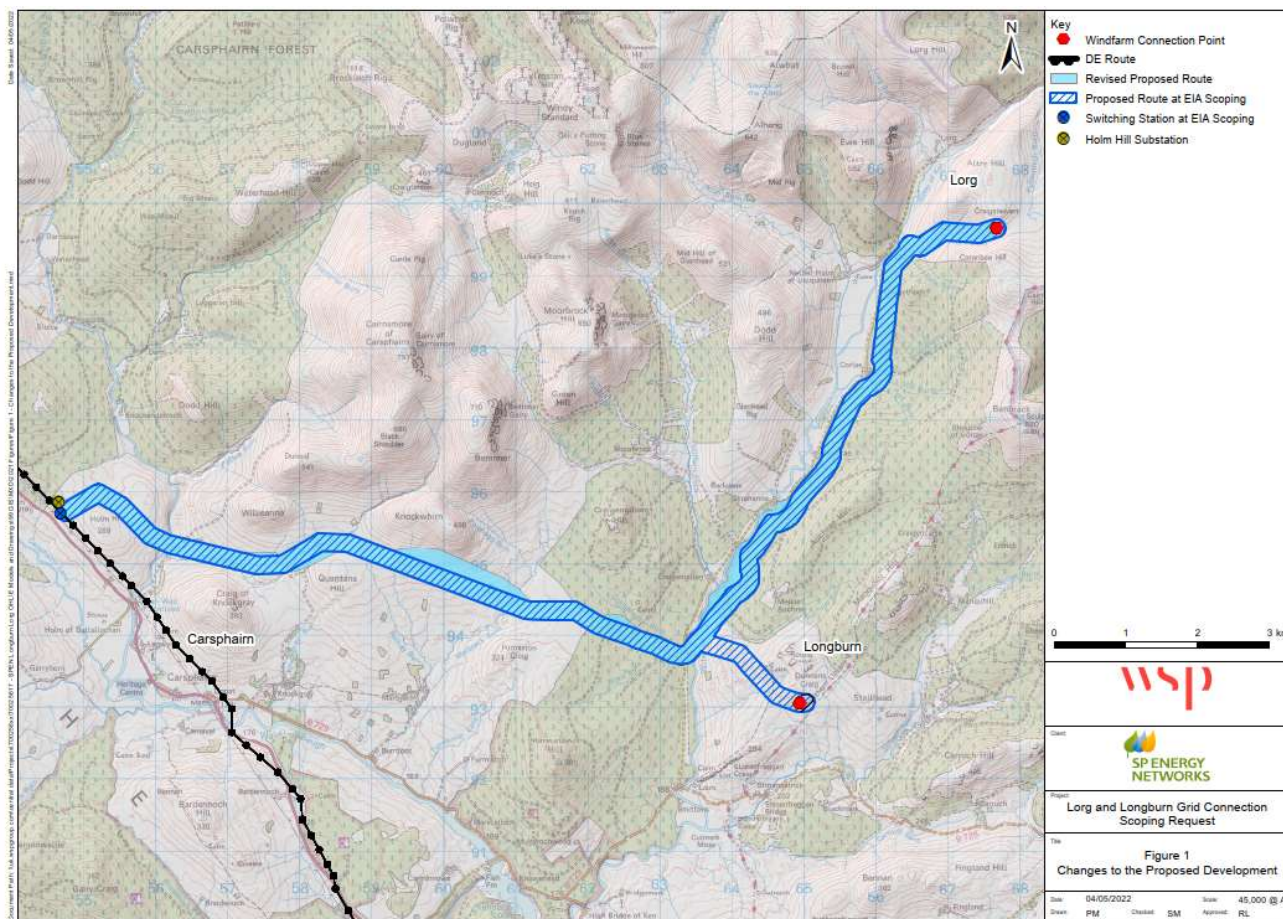
Project to Date



Project Overview

- Proposed as a 132kV connection to be supported by trident wood poles
- Wood Poles would be of 'single' or 'H' pole design. Given that the study area is mostly above 200m it is anticipated that the 'H' pole configuration is most likely to be used throughout.

The Proposed Route - Update



In response to feedback gathered through the consultations to date a Proposed Route was determined.

Since consultation there have been minor changes to the Proposed Route as illustrated and detailed as follows:

- The spur to Longburn Wind Farm is no longer required and has been removed. 'Longburn' has therefore been removed from the project title
- The Holm Hill switching station is being replaced with Holm Hill Substation at a location slightly further east and therefore the western end of the Proposed Route extends approximately 150m in this direction
- The central and eastern sections of the Proposed Route deviate slightly when compared to that at the EIA Scoping stage due to changes made to accommodate other development proposals and landowner requests

What's Next

Preliminary Alignment

A preliminary alignment of the overhead line will be designed within the Proposed Route, taking into account the findings on environmental effects, consultation feedback to date and technical feasibility.

Environmental Impact Assessment

It will be taken forward to Environmental Impact Assessment (EIA) where it is subject to further detailed assessment to determine its likely effect on the environment and to refine the design of the alignment.

Public Information Event

Ahead of an application being made, a public information event will be held to share details of the proposed design.

Section 37 Application

The finalised alignment will then be taken forward to Section 37 Application. There will be a further opportunity to comment as part of the formal Section 37 application process.

**Public Information Event is expected
Autumn 2022**

Thank you for Participating



SP Energy Networks Community Consultation Page
http://www.spenergynetworks.co.uk/pages/holm_hill_substation.aspx

