



Construction of typical L4 tower

It is proposed that the transmission lines would be constructed using the L4(M) steel lattice tower series. These towers have an average height of 26m, although this can be extended or reduced to ensure minimum safety clearances between the lines and the ground and to trees, roads etc and to accommodate sloping ground. An example of a typical L4 tower is shown above.

Line construction typically follows a standard sequence of operations which are:

- ▶ Prepare access
- ▶ Install tower foundations
- ▶ Erect towers
- ▶ String conductors
- ▶ Reinstate tower sites and remove temporary accesses

It is preferred to have vehicular access to every tower site for construction. Access can take various forms and is dependent on ground conditions. In poorer conditions more access works are required which can vary from laying temporary wooden or aluminium matting to installing crushed stone roads.

Every effort will be made to cause least disturbance to landowners and local residents during construction. The routes of the lines are selected to avoid as far as possible communities and individual dwellings and to provide a sympathetic fit with the surrounding landscape. Ground disturbed during construction of the new lines will be reinstated.

If you require further information on the project you can visit the public exhibition which is being held in Waterbeck Hall between the 21st & 24th of May 2007. The exhibition will be open between the hours of 4.00 to 7.00pm between Monday 21st & Wednesday 23rd. In addition members of the design team will be available to answer questions on Thursday 24th May between the hours of 12.00 & 7.00pm.

Copies of the Public Consultation Document, which sets out the full details of how the preferred routes have been selected, are available for review at this facility. If you require a copy of this document for yourself you can view it on the internet at:

www.sppowersystems.co.uk/networkservices/performance.asp

or you can request a CD ROM by contacting:

ewehillnewfield.projectmanager@sppowersystems.com

or by writing to:



**Scottish Power
Energy Networks**

Ewe Hill and Newfield Project Manager
Scottish Power Energy Networks
New Alderston House
Dove Wynd
Strathclyde Business Park
Bellshill
ML4 3FF

Please stipulate if you require a hard copy of the report.

The public exhibition is there to present the project and also allow you to ask questions to members of the project team and make comments on the proposals. Your feedback is a vital part in the process of finalising preferred routes which consider the environmental issues along with public opinion.

Following submission of comments and responses, SPEN will found upon a "proposed route" for each connection. These will be carried forward to Environmental Impact Assessment (EIA) the results of which will be reported in an Environmental Statement (ES).

SPEN will use the ES to support its two Section 37 applications (one for each connection) under the Electricity Act 1989 to the Scottish Ministers for consent to install and operate the overhead lines.

Gretna Substation to Ewe Hill and Newfield Windfarms 132kV Transmission Line



Project Overview

Scottish Power Energy Networks (SPEN) on behalf of SP Transmission Ltd (SPT) proposes to construct a 132kV overhead transmission line between Gretna Substation and the proposed Ewe Hill Windfarm Substation, with a subsequent connection to the proposed Newfield Windfarm Substation. The preferred routes for the transmission lines are shown on the plan to the right and were identified through an options appraisal exercise.

SPT are responsible for the electricity transmission system in the south of Scotland. As the transmission licence holder, SPT is required under the electricity Act 1989 “to develop and maintain an efficient, co-ordinated and economical system of electricity transmission”. In developing and maintaining this transmission system, SPT is committed to minimising disturbance to people and the environment. To comply with its licence obligations, SPT must provide the windfarms in the south of Scotland with connections to the electricity network.

To get to this stage Gillespies and WSP Environmental Ltd (WSPE) were commissioned by SPEN in June 2006 to undertake the options appraisal exercise for the proposed 132kV overhead transmission lines. The appraisal was based on the identification and assessment of the baseline landscape and environmental features present within the study area, which formed the key drivers in the identification of the preferred routes.

This leaflet gives a broad overview of the proposals and provides information on where further details can be obtained. The leaflet also sets out how you can have your say on the project and make comment on the options presented.



Examples of an L4 Tower (as proposed)



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