

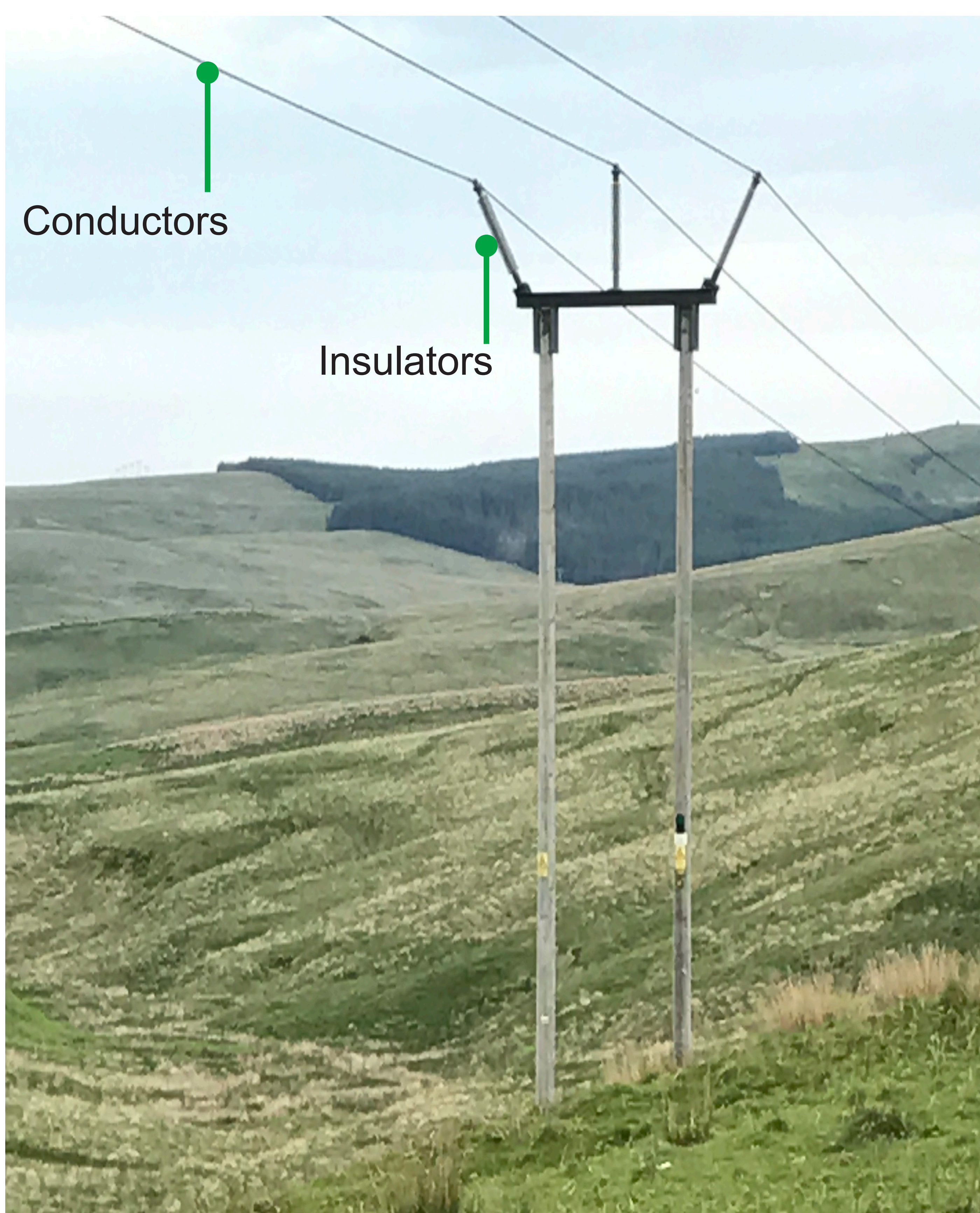
5 What will the Overhead Line look like?

The new OHL will be approximately 23 km in length and supported on wood poles of the double 'H' pole design. One 33kV circuit breaker and one transformer will also be required at the Harestanes West Wind Farm substation as well as a circuit breaker compound at the tie-in point on the 'BR Route'.

Land agreements will be sought with each landowner. A wayleave corridor typically 60m wide (30m either side of the centre of the OHL) will be sought.



Typical circuit breaker compound



Typical Trident 132kV 'H' wood pole
(height between 11m - 16m)

The section of OHL between the wood poles is known as the 'span'. Span lengths between the wood poles will average between 80 metres and 100 metres.

The wood poles will be dark brown in colour when newly constructed and weather over the years to a light grey.

The exact location of new wood poles along the final proposed route will be confirmed through a detailed design/technical review process which will be informed by the findings of this public consultation.

Other temporary infrastructure will be required during construction of the new OHL, including access tracks and storage areas.

In terms of operation and maintenance, whilst most OHL components are maintenance free, exposed elements which suffer from corrosion, wear, deterioration and fatigue may require inspection and periodic maintenance.

OHL cables generally require refurbishment after approximately 40 years. Should the new OHL still be needed to support the operation of Harestanes West Wind Farm at the end of its operational life, then it is likely that it will be re-equipped with new conductors and insulators and refurbished. At this time, it is expected that the new OHL will be decommissioned fully when Harestanes West Wind Farm has reached the end of its operational life.

Harestanes West Wind Farm 132kV Overhead Line Grid Connection

www.spenenergynetworks.co.uk