

**SCOTTISH AND SOUTHERN ELECTRIC  
(SSE)  
Connagill 275kV Overhead Line  
Diversion**



**Overview**

275kV overhead line diversion of existing L3 double circuit line into the new substation.

A temporary tower was erected to divert the conductors and keep the circuits live during construction.

The site for the new towers was located on rough hillside moorland with a geology mainly consisting of peat and rock outcrops.

Mini pile rock anchor foundations installed for each tower leg driven to 12 metres depth, with stub legs set into the pile caps.

New Towers approx. 45mtrs in height:-

Tower 33A – L8 DJT (approx. 55 tonne)

Tower 33B – L8 DJT (approx. 52 tonne)

Tower 33T – L2 ST (approx. 25 tonne)

**IMPLEMENTATION**

**Activity**

Temporary diversion with temporary tower – permanent diversion constructed off line.

**Technologies Used**

Mini pile foundations  
Temporary stone access roads and crane pads  
200 tonne crane

**Customer Benefits**

- Job completed in challenging remote environment.
- Complex outage programme managed.
- Installation of 3 piled tower foundations.
- Erection of 3 – 275kV towers.
- Transfer of existing 650mm<sup>2</sup> conductor and new line entries.
- Expertise / Know-How / Experience
- Team adaptability and responsiveness.

**Country:** United Kingdom  
**Site:** Connagill, Northern Scotland  
**Budget (£m):** 2.2

**Start Date:** 07/2014  
**End Date:** 03/2015

**Business Units Involved**  
Omexom – UK TOHL

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