

Line of Sight Surveys

Shape won a contract to carry out 90 Line of Sight surveys on one of the countries leading energy provider's network's in Scotland who wished to upgrade from an Analogue to a Digital Network in 2007. This involved sites in Central Scotland and sites in the Highlands and Islands. In addition to the geographical challenges this presented, we were also required to complete all the links in a 3 month period, together with final reports, during the worst part of the Scottish winter. The surveys we carried out had to focus on the following areas:-

- * Measure minimum LOS (allowing for tree growth)
- * Surveys carried out using LOS lamps and balloons.
- * Links up to 80km
- * Links on the mainland, mainland to Island and Island to Island
- * Survey of current structure or proposed structure if none there using cherry pickers to access the site.
- * Propose the position of the link on the structure and internally within the cabin
- * 360 degree panoramic photographs
- * Propose the steelwork design for fixing the differing antenna sizes.
- * Approximate path and length of cable
- * Availability of power
- * Survey of surrounding area
- * Access issues
- * Health and Safety issues

We put together 10 x 2 man teams with appropriate equipment and 4 wheel drive vehicles and despite the challenging conditions we achieved the targets set by our customer. . Indeed, due to surveys where LOS could not be achieved, we carried out extra surveys completing 107 Surveys in the allotted time.



Some sites had to be accessed by using All Terrain Vehicles or helicopters

Full reports with steelwork designs and photos of the sites were put together, assessed through our QA procedure and delivered to our customer. Our customer was also able to update its records with the information collected by our teams and thereby improve the quality of its database.

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