



DELIVERING SOLUTIONS. PROTECTING HABITATS.

Overview

McGowan Infrastructure, an ICP-accredited contractor within BRUSH Group, specialises in delivering environmentally conscious energy infrastructure projects across the UK.

Using innovative cable wrap technology, the team installed 21km of 33kV circuit in trefoil formation over predominantly unmade ground, including areas of very deep peat for Scottish and Southern Electricity Networks Distribution (SSEN Distribution). The original cable laying design required a traditional fine fill sand to surround the cable, which would have required 13,500 tonnes of sand, an estimated project cost of circa £2.35M and 244 tonnes of CO₂ emissions generated by its production, transportation, and placement. The team chose to utilise Eco Cable Protect as a viable, low cost, low environmental impact alternative protection solution.

Project profile

Location:

Burn of Whilk,
Scottish Highlands

Solution:

Installation of 21km of
33kV circuit with Eco
Cable Protect.

Delivered by:








Solution

McGowan Infrastructure implemented the Eco Cable Protect system — a continuous cable wrapping technology using a mesh-based Rockshield barrier applied via a bespoke, single-operator machine. This innovative installation method eliminated the need for imported fine fill and temporary haul roads, significantly reducing the project's carbon footprint and ecological disturbance in a sensitive upland environment.



Project benefits

-  Safeguarding of local habitats, minimal reinstatement efforts needed after project completion
-  37 tonnes of CO₂ emitted, a reduction of 207 tonnes or 85% compared to traditional methods
-  50% reduction in costs
-  Seamless manufacture, delivery and application
-  Sheath faults almost eliminated

Result

The cable wrap system is now incorporated into SSEN's standard specification and can be used on any part of the network in accordance with project requirements.

More information

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For more information
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