



Inverness 33/11 kV Substation build & cabling, Freedom

Overview

Longman Substation is a significant infrastructure project delivered for Freedom Group / SSEN which brings new energy to the area. The Longman 33/11kV Substation - a £1.2 million undertaking - significantly enhanced the local grid, supporting both current and future demands.

The scope of works that McGowan Infrastructure were tasked with delivering included constructing all civil engineering and structural elements of the build - including groundwork, structural steelwork and concrete construction of the substation transformer halls - along with all infrastructure for the cable laying and jointing.

The success of this project is a direct result of the hard work and expertise of our project teams and partners, including Murform (concrete foundations), AJ Engineering (structural steelwork) and Hill-Tec (technical and engineering support).

With a growing reputation for delivering bespoke, high-quality engineering solutions while protecting the environment - such as at Longman Substation - McGowan Infrastructure is setting the standard for the future of sustainable infrastructure.

Project profile

Location:

Longman Substation,
Inverness

Solution:

Substation & Cable
Laying/Joining

Delivered by:

McGowan Infrastructure

Solution

McGowan Infrastructure engineers worked closely with designer, Jacobs, and clients, Freedom Group & SSEN, to provide efficient problem solving, topographical survey data and CAD drawings to illustrate best practices and build-ability solutions. The delivery team overcame multiple challenges including the management of site materials, the close proximity to the Moray Firth and tidal soils, and handling design changes. In order to deliver this contract safely and efficiently, McGowan Infrastructure invested in an excavator-mounted suction excavator – the “Tin Bin”. This tool allowed safe excavations in tight spaces using air instead of traditional mechanical methods, significantly enhancing safety.



Project benefits

- Local grid significantly enhanced
- New energy brought to area and community
- Safe excavations ensured by use of suction excavator
- Environmental disruption minimised
- Sustainability initiatives minimised project carbon footprint

Result

Despite challenging terrain and environmental conditions, our use of innovative engineering techniques helped deliver this project on schedule. In delivering the cabling and substation build, our team showcased innovating engineering and collaborative effort, promising substantial benefits for the community. Successful delivery of this project highlights McGowan’s dedication to quality engineering solutions and its commitment to becoming a key partner in the energy sector supply chain.