



**MORGAN  
SINDALL**  
INFRASTRUCTURE

## FSPs for Bangor to Colwyn Bay

Samuel James Engineering in collaboration with Morgan Sindall and Network Rail aimed to elevate the infrastructure capacity between Bangor and Colwyn Bay. This project formed part of the CP6 Wales and Western framework and Samuel James Engineering were delighted to support with the provision of a suite of Functional Supply Points (FSPs).

This case study explores the challenges faced, the solution implemented and the overall impact of this partnership.

### The Challenge

Transport for Wales identified the requirement to improve the standard of the North Wales Main Line. This necessitated an upgrade in terms of line speed, capacity and electrification and was essential to facilitate the delivery of the Welsh Government's transport objectives and to integrate with the UK Government's Northern Powerhouse.

### The Solution

Samuel James Engineering is recognised for its expertise in delivering innovative infrastructure solutions, and collaborated with Network Rail and Morgan Sindall to address these challenges. The team worked closely to ensure a deep understanding of the customer's requirements and developed a bespoke design which overcame the issues experienced along the Wales & Western Route.

# The Result

The hybrid design which was agreed, met the need to deliver the power requirements for the new signalling system, whilst providing a fully scalable solution which enables enhancements for future projects.

Typically, as with any project of this scale, variations occurred and the team incorporated a number of design changes which were delivered without impacting the overall programme.

The collaboration with Morgan Sindall and Network Rail exemplifies the positive outcomes achievable through close collaborative working.

By addressing specific challenges with bespoke Functional Supply Points, the partnership not only improved the efficiency of the project but also laid the foundation for similar future projects.



## Key Facts for the Samuel James Engineering FSP Power Solution:

### FSP01/02 Switchgear Assemblies

Samuel James Engineering are experts in the design and manufacture of full Class I and Class II Switchgear Assemblies. Our Functional Supply Points can be single or dual end fed, for use within new and existing distribution systems.

Our FSPs conform to Network Rail specifications NR/L2/SIGELP/27409 Issue 2 and NR/L2/SIGELP/27410 Issue 2, as well as BS EN 61439 Pt2. All variants have the capability for mounting internal measuring Current Transformers on both the main incoming/outgoing supplies.

We also offer FSP03 and FSP04 solutions.  
Visit [www.samuel-james.co.uk](http://www.samuel-james.co.uk) for more details.

### Samuel James Engineering

Beresford Avenue,  
Coventry, CV6 5LZ  
T: +44 (0) 2476 835 000  
[www.samuel-james.co.uk](http://www.samuel-james.co.uk)  
E: [sales@samuel-james.co.uk](mailto:sales@samuel-james.co.uk)



Visit [www.unipartrail.com](http://www.unipartrail.com) for details  
of our Worldwide Regional Offices