



East Coast Main Line (ECML) Power Upgrades

Location: East Coast Main Line, Scotland

Timeframes: June 2016 - present

Client: Network Rail Scotland

Discipline/Sector: Rail, signalling

Project Overview

Paving the way for the introduction of new electric trains on the East Coast Main Line (ECML), AmcoGiffen were contracted to install new signalling power supplies at all interlockings between Edinburgh and Berwick.

The project involves the Reconfiguration of the existing 650V signalling power feeder arrangements from Portobello Principal Supply Point (PSP) to Marshall Meadows TSC on the ECML, covering approximately 63 miles of route.

Scope of Works

Delivering all GRIP 5 design works across each discipline, along with the test and commissioning and project hand back, our further scope of works included:

- Installation of new PSP REB at Reston
- Installation of new PSP Switchgear at Portobello, Prestonpans, Drem, Dunbar & Grantshouse
- Installation of new 400/650v transformers at above locations
- Installation of new 230/110v panels and transformers
- Installation of new ASPs at Monktonhall, Longniddry, East Linton & Marshall Meadows
- Installation of 56 new Functional Supply Points
- Installation of 10km of signalling power cable
- Installation of B2 signalling cable
- Modifications to 56 signalling locations
- Installation of 950m of new C1/9 concrete troughing
- Load monitoring for design requirements
- Installation of location case bases and platforms
- Vegetation and route clearance



The weekend works have all been completed and the client is very happy with the result. We will continue to ensure this is displayed throughout the project!"

- AmcoGiffen Project Manager



Innovation Applied

Delivering the enabling works to ensure the safe and successful running of the new electric trains, the new power supply upgrade is in direct support of the InterCity Express Programme.

As the second phase in the ECML Power supply upgrade, delivering upgraded power to the East Coast Mainline railway between Edinburgh and Berwick, this project is revolutionising clean, safe train travel.

Benefits Provided

Upgrading the power supply on the East Coast Main Line to enable faster, quieter and cleaner trains to run, passengers will ultimately benefit from more seats, additional services, and improved performance and reliability.

The improvements will also reduce the amount of maintenance required for Overhead Line Equipment (OLE).

Benefiting from our nationwide expertise, and experience in delivering a similar scope of works on the WCML, AmcoGiffen are currently delivering the project safely, on time and to budget.



Project Contact

For further info please contact
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