

A photograph of a modern, two-story office building with large windows and light-colored horizontal siding. A sign for 'KENT GROUP' is visible on the building's facade. In the foreground, there is a blue banner with white text and the Kent Group logo. The banner also contains project details in light blue text.

CASE STUDY – EAST MIDLANDS PSP RENEWALS

CLIENT – NETWORK RAIL INFRASTRUCTURE LIMITED

LOCATION – EAST MIDLANDS, UK

DURATION – 2 YEARS



CASE STUDY – EAST MIDLANDS PSP RENEWALS



Project Overview

Kent Group successfully delivered the *East Midlands PSP Renewals* project in collaboration with the Network Rail East Midlands E&P Route Engineering team.

Delivered over a two-year period from contract award through to final entry into service, the programme involved the turnkey renewal of three critical Principal Supply Point (PSP) sites across the East Midlands route:

- **Uttoxeter** – 30kVA UPS / 88kVA Generator
- **Market Harborough** – 40kVA UPS / 88kVA Generator
- **Syston** – 80kVA UPS / 145kVA Generator

The project formed part of Network Rail's CP6 renewals work bank, with the objective of improving the long-term reliability, resilience and maintainability of critical signalling power infrastructure.



Delivery Strategy

A key element of the programme's success was early collaboration and detailed coordination with Network Rail and associated disciplines to maximise access opportunities and delivery efficiencies.

Works were strategically aligned with wider route renewals and enhancement activities wherever possible, allowing possessions and access arrangements to be shared across multiple disciplines. This approach reduced operational disruption while improving programme efficiency and delivery certainty.

Kent Group managed the project through the full lifecycle — from concept and design through manufacture, installation and commissioning — providing continuity across all stages of delivery.

Safety & Compliance

Safety remained a core focus throughout the programme.

All works were delivered in accordance with:

- Common Safety Method (CSM) principles
- Construction (Design and Management) Regulations (CDM)
- Network Rail Life Saving Rules
- Relevant Network Rail standards and procedures

Robust planning, coordination and risk management processes ensured the works were delivered safely while maintaining operational railway requirements.



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Kent Group delivered a fully integrated turnkey solution encompassing:

Design & Engineering

- Civil design
- Electrical design
- Signalling design
- Compliance with current Network Rail standards and specifications
- Coordination with wider renewals and enhancement programmes

Manufacture & Integration

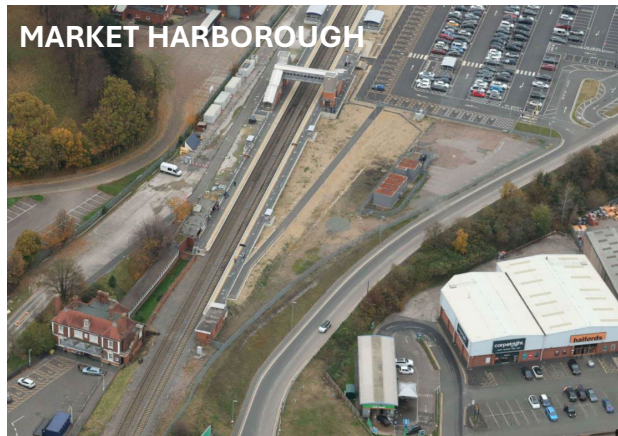
- In-house manufacture and assembly of PSP systems
- Integration of UPS systems and generator equipment
- Factory testing and quality assurance processes
- Modular PSP building integration

Site Delivery Works

- Site clearance and enabling works
- Installation of bases and compounds
- Delivery and installation of modular PSP buildings
- DNO equipment installation and coordination
- Cable installation and infrastructure integration

Testing & Commissioning

- Full functional testing
- Electrical and signalling commissioning
- Entry into operational service
- Final project handover and documentation



PROJECT BY NUMBERS

3 Principal Supply Points
successfully renewed

2-Year programme duration from
award to final commissioning

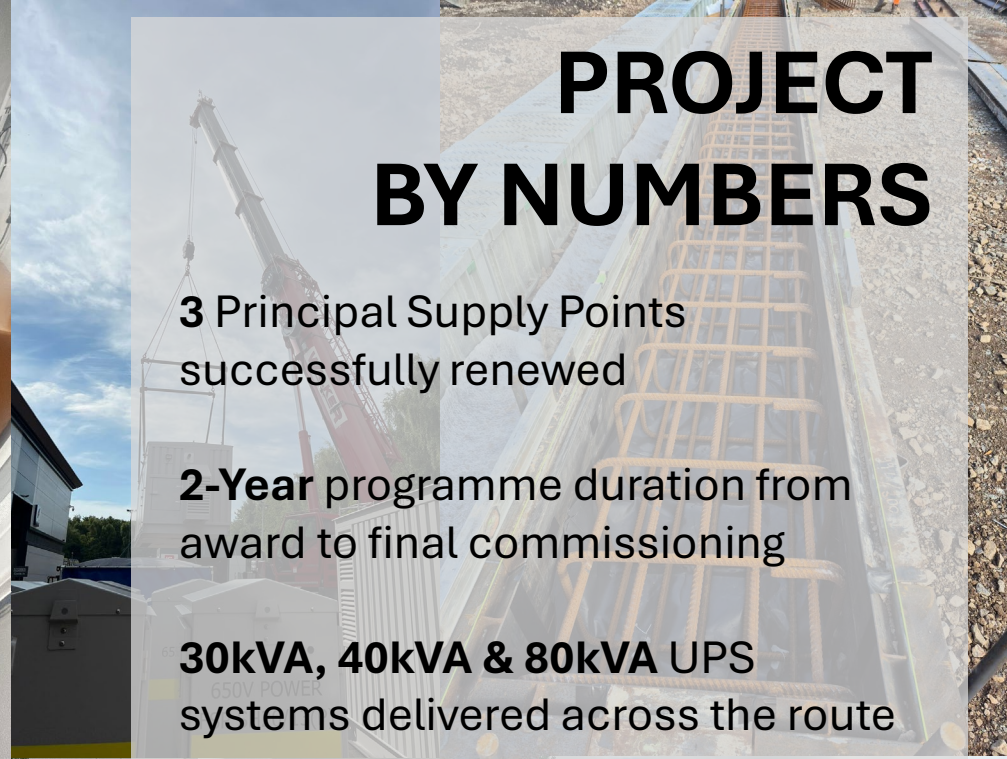
30kVA, 40kVA & 80kVA UPS
systems delivered across the route

88kVA & 145kVA generator
installations completed

100% in-house PSP manufacture
and integration by Kent Group

0 Accidents recorded throughout
the programme

0 Lost time injuries (LTIs)



OUTCOMES & BENEFITS

IMPROVED RELIABILITY AND RESILIENCE OF CRITICAL SIGNALLING POWER INFRASTRUCTURE.

REDUCED RISK OF ASSET FAILURES AND SERVICE-AFFECTING POWER INTERRUPTIONS.

ENHANCED MAINTAINABILITY THROUGH THE REPLACEMENT OF AGEING EQUIPMENT WITH MODERN MODULAR PSP SOLUTIONS.

IMPROVED WHOLE-LIFE ASSET PERFORMANCE ALIGNED WITH CURRENT NETWORK RAIL STANDARDS.

SAFE PROJECT DELIVERY WITH ZERO ACCIDENTS AND ZERO LOST TIME INJURIES.

LONG-TERM SUPPORT OF NETWORK RAIL'S OBJECTIVES FOR A SAFE, RELIABLE AND EFFICIENT RAILWAY.



CASE STUDY – EAST MIDLANDS PSP RENEWALS



Why This Matters to Our Client



The renewal of Principal Supply Points across the East Midlands route provides Network Rail with modern, resilient and maintainable signalling power infrastructure designed to support long-term operational reliability.

By replacing ageing assets at Uttoxeter, Market Harborough and Syston, the project reduces the risk of power-related failures impacting signalling systems and operational performance, while improving asset reliability and maintainability for future maintenance teams.

The use of modular PSP buildings, integrated UPS systems and upgraded generator capacity also improves system resilience and provides infrastructure aligned with current standards and operational requirements.

Through close coordination with wider renewals and enhancement activities, the project was delivered efficiently within planned access opportunities, helping minimise operational disruption and maximise value from possessions and resource allocation.

Kent Group's turnkey delivery model — incorporating in-house design, manufacture, integration and commissioning — provided the client with greater programme control, consistency in delivery standards and reduced interface risk across multiple disciplines.

Most importantly, the successful completion of the programme supports Network Rail's wider objectives of maintaining a safe, reliable and efficient railway for passengers and freight operators across the East Midlands route.





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