



CASE STUDY

Scheme	Luton Direct to Air Rail Transit
Location	Luton
Client	Luton Borough Council
Completed	July 2020



A new Mass Passenger Transport (DART) system is being constructed to provide a fast transport link between the existing Luton Parkway Railway Station and Luton Airport, which is due to be in service in 2021.

The MPT system will comprise a cable hauled train system with a dedicated station at Stirling Place, Kimpton Road, providing a direct link to Luton Airport.

RJ Power Connections were engaged to design and install a 4MVA power supply, emanating from the UKPN primary sub-station located at Eaton Green Road and terminating to the new MPT station at Kimpton Road, adjacent to the existing Luton Parkway Railway Station.

This project was a key deliverable on the critical path and was delivered on programme. It involved complex Stakeholder interfaces, which were negotiated through the provision of a Stakeholder Management Plan in order to liaise with Luton Borough Council Highways, London Luton Airport Ltd, UK Power Networks, Affinity Water and the Principal Contractor from the main site, Volker Fitzpatrick Kier.



PROJECT DELIVERABLES

The contestable works for the 11kV cable and ring main unit (RMU) were carried out to UKPN standards and the transformer / LV works to Energy Assets standards as the adopting IDNO.

The entire project encompassed the following:

- 🌀 The system required a 4MVA power supply for Electrical, Mechanical and Rail system operation and the project delivery included a facility for regeneration to EREC G99 Standards.
- 🌀 Design and installation of a 4MVA power supply from the UKPN substation to the new MPT station, in compliance with UKPN Specification.
- 🌀 Excavation and re-instatement of approximately 2.2 kilometres of multi service trench.
- 🌀 Installation of 4.4 kilometres of 11kV triplex cabling.
- 🌀 Working in collaboration with Affinity Water to minimize disruption to the busy local road network by delivering infrastructure installation on their behalf.
- 🌀 HV and LV installation of two new on site UKPN switch rooms to include the supply of two Ring Main Units and all associated switchgear and ancillaries.
- 🌀 All works were audited under Lloyds NERS registration scheme.
- 🌀 Full commissioning to UKPN requirements.

CUSTOMER FEEDBACK

The client was very pleased with the quality of works that were delivered and provided by RJ Power Connections, with positive feedback in areas including stakeholder management and communication together with the quality of service and professionalism shown by our teams. They confirmed that they would be happy to work with us again in the future and would recommend RJ Power Connections to others.

THE BENEFITS

RJ Power Connections specialise in Grid/Network Connections and Contestable Works, offering the client an alternative to using the local Distribution Network Operators (DNO). RJ Power Connections are a customer focused business that delivers high quality, flexible solutions for a wide range of utility connection requirements.

As a NERS accredited Independent Connection Provider (ICP), we have no contractual links to equipment suppliers or contractors, meaning we are justly independent and able to consider all available options for a project. We strive to build long term relationships with our clients to provide the optimal engineering solution whilst maintaining commercial advantages.