

PROJECT PROFILE

CLIENT

LEADING DATA CENTRE PROVIDER

LOCATION

CORSHAM

SECTOR

DATA CENTRE

PROJECT

P1 MODULE 1 DATA CENTRE DESIGN & BUILD



OVERVIEW

The principal of the electrical engineering services design and build, instructed by our client, was to provide a Tier III concurrently maintainable main electrical site infrastructure and power delivery system. This will support the IT services in the proposed new data centre in Corsham, as set out by the Telecommunications Infrastructure Standard (TIA) 942.

The design and construction is scalable to provide a full data centre facility to be built over three modules. Module one consists of a modular switchroom 'SwitchQube' and four PowerQubes, each to provide 1920kW UPS power and 3000kW of generator power on an N+1 configuration to support 1520kW of IT load. Each PowerQube consists of a 1250kVA diesel generator and a dynamic rotary 800kVA UPS.

The SwitchQube will be connected, upstream, to a 40MVA resilience utility power supply, supported by new 11kV dedicated ring circuit via 2.5MVA 11kV/400v transformers.

The power system will support six modular 760kW data rooms, each providing seven aisles with space for 182 800x 200mm server cabinets complete with associated ancillary electrical, mechanical, fire and security systems.

This project met client stipulated timelines and all key client expectations have been met in respect of time frames and cost control.