

Client: Ark Continuity

Location: Corsham

Sector: Data Centre

Project value: £4,100,000

Project: P1 Module 1 Data Centre Design and Build



Brief

The principal of the electrical engineering services design and build, instructed by our client, is 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.

Action

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 4no 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 6no modular 760kW data suites, each providing seven cold aisles with space for 182no 800x1200mm server cabinets complete with associated ancillary electrical, mechanical, fire and security systems.

So Far

The project is progressing to the agreed project timeline and all the key client expectations have been met in respect of timeframes and cost control.