Eta Projects

# Global Data Centre

## DC Power Plant Upgrade

### PROJECT DETAILS

**Client**

Global Data Centre

**Consulting Engineer**

Eta Projects Ltd

**Value**

£104,000.00

**Timescale**

4 weeks

### DESCRIPTION

The existing Eltek DC Power Plant was over 20 years old and past its manufactures recommended 'shelf life'. Due to the age of the Power Plant it had become unreliable, unmaintainable and difficult to source spare parts.
Eta Projects were awarded the contract to replace the Eltek with a more energy efficient system and transfer all load supplies and batteries with zero interruption to the customer.

Eta Projects installed a 95% energy efficient 200kW Eaton DC Power System.

### OBJECTIVES

Supply and install an energy efficient DC Power System with 200kW load capacity with the option to expand. Migrate all existing DC loads and batteries from existing redundant DC system with zero interruption to customer service. Commission the new system, alarms and remote monitoring via the customers intranet.

### DESIGN

Eta Projects liaised with the DC Power Plant manufacturer to produce an energy efficient system that would meet the client's site specific requirements in terms of size, weight, load capacity, alarm configuration and remote monitoring.

Eta Projects produced an installation solution and program of works to complete the installation and migration of supplies and batteries from the redundant Eltek DC System. This innovative installation process ensured the customer had 8 hours battery autonomy of both systems for the durations of all works in the event of mains failure.

### SPECIFIC DESIGN REQUIREMENTS

Upon receipt of the Scope of Works from the Client, the design requirements were much more than to simply supply a 200kW DC System. The new power plant had to be integrated to the customers' existing DC Power infrastructure with minimum disruption to daily works of the data centre and zero interruption to customer service.
Eta Projects worked with various manufacturers to produce a suitable design solution for the new DC system, once the designs were finalised we worked with the client to decide which design best suited their needs. Finally the installation phase was undertaken and all services to this multimillion pound data centre were maintained during the phased changeover of supplies and batteries.