



Colocation Data Centre

Install a complete Energy & Power Management System at a 22MW Colocation Data Centre within the M25

PROJECT BRIEF

The brief was set for a complete Power Management System that could be used to monitor the incoming supplies down to final cabinet distribution and manage the critical power throughout the 22MW colocation data centre.

The additional requirement to interface to the existing UPS Systems and Generators meant a site wide monitoring package was required. Within this project smaller remote sites also needed to be monitored to provide information from all sites.





THE SOLUTION

To install over 500 primary and secondary energy monitors power quality analysis meters throughout the data centre to capture power consumption, transients and events. Using dual redundant Ethernet rings and managed switch outstations the data from these meters is captured via our e-Power Energy Management Software in order to provide full visibility of site critical power and energy usage 24/7.

With hot/hot rack mount servers, a separate RAID operating system, and a SQL data base for e-Power storage the client has a failsafe solution. The e-Power software installed at this site has unlimited local and remote user access, with varying levels of administrative privileges dependent on the user.

The client has the capability to view and edit real time data and historical trends, set alarm thresholds and monitor alarm conditions with the functionality to add or remove any power monitors from any energy reports. Predefined reports have been created which can be automatically or manually generated and edited by the client.

“ We now have a common portal where we can view any one of our Data Centres from a high level overview down to individual items of plant. ”

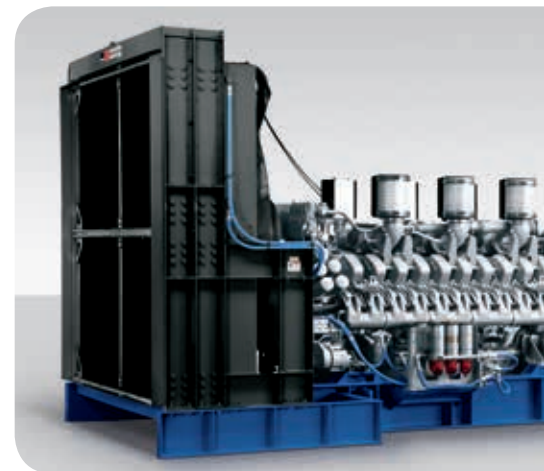
Head of Critical Environments – UK & Europe

SITE SPECIFICS

Within the data centre we monitor all site equipment including:

- 104 Intelligent PDU's
- Static Transfer Switches
- 12 x 4000A UPS Switchboards
- 4x 4000A Double Ended Package Substations
- Chillers
- 68 x HV Switchgear Sections monitored across six switchboards
- 10 x 2.5MVA Generators split across two power stations

The data for all the equipment is visible on the e-Power Software, providing the user with an animated single line diagram including breaker and busbar status; virtual simulation of field equipment, equipment specific overview, Branch Circuit Monitoring and report generation.



TREND



E-TEC
POWER MANAGEMENT

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