

# PROJECT PROFILE

**CLIENT**  
MARKETING LEADING  
COMMUNICATIONS PROVIDER

**LOCATION**  
BUCKINGHAMSHIRE

**SECTOR**  
DATA CENTRE

**PROJECT**  
BRECKLAND DATA CENTRE UPGRADE



## OVERVIEW

JCA were asked to carry out extensive capital plant replacement and upgrade work on a 20+ year data centre facility. The works were to be carried out in a live environment with no loss or impact to the client's services.

A complete refurbishment was carried out to two 500kVA static UPS systems and one 600kVA static UPS system, including full battery replacement. A new fourth 400kVA scalable static UPS system was installed.

JCA completed the installation of new 3200A LV switchboards and the re-configuration of three 2.15 MVA standby generators. The power generation, mechanical and electrical infrastructure, were redesigned to accommodate a fourth 2MVA standby generator and the addition of a further fuel tank, with pipework modification to optimise the standby resilience.

The existing loads were reconfigured to maximise site resilience and load balancing across the four utility supply 11kV transformers.

In addition, the existing site wide fire suppression system was completely refurbished and enhanced to provide protection to the higher hazard class A and redesigned for higher levels of concentration.

This challenging project was carried out with meticulous planning and attention to detail. It was completed on time and exceeded the client's commercial expectations.

The success of this project has led to ongoing critical services work for this client on sites all over the UK .