WBPS POWER YOU CAN TRUST

KEYSOURCE

PROJECTS

WB Power Services (WBPS) was first established in 1983 and since then we have grown significantly in size and service capability. Today, we provide critical power services to some of the UK's most important businesses and organisations, ensuring essential services are protected. We are proud to retain our family values on a national scale as we strive to be the biggest and the best power generation company in the UK.

CASE STUDY

KEYSOURCE & A HAMPSHIRE DATA CENTRE

Keysource are a global data centre & critical environment specialist, providing a range of services to support the full data centre and critical environment lifecycle from initial consultation, through to implementation and ongoing operational management.

Keysource were enaged by a leading Hampshire Data Centre to provide pre-construction services for the first floor data centre construction at its site. A large part of this service was to design and deliver a back-up power solution to meet the additional power load of the new-build project once complete, which is where WB Power were able to consult and deliver a bespoke solution.

PROJECT OVERVIEW

4400kVA

GENERATOR INSTALLATION
Installation of 2 x T2200kVA Kohler-SDMO generating sets

PLANT ROOM INSTALLATION
Installed in an existing plant room with restricted space

KEY REQUIREMENTS

GENERATOR INSTALLATION

PLANT ROOM INSTALLATION

FOOTPRINT & SPACE RESTRICTIONS

SYNC CONTROLLER MODIFICATION

BESPOKE SUPPORT FRAMES

INTRODUCTION

Having been engaged to provide pre-construction services for the first floor data centre construction, Keysource approached WBPS to scope, design, install and commission a new back-up power solution to meet the additional power load of the new-build project once complete.

PROJECT OVERVIEW

The first stage of the project involved the cranage installation of 2 x 2200kVA Kohler-SDMO prime rated generating sets, installed alongside two incumbent generators. Due to spacing restrictions within the plant room, a bespoke framing solution was also designed. The generators were connected into the existing fuel tank arrangement, and new control systems were modified to ensure compatibility with the existing sync systems.

SOLUTION & RESULT

Following project scope, design and sign-off, the first milestone was to deliver and place the two T2200kVA Kohler-SDMO generators. Utilising a third party cranage company, the two generating sets were craned into an adjacent position and then skated in. Due to severe space limitations, the silencers built for the generator couldn't be hung from the ceiling in a traditional style. As an alternative solution, a bespoke silencer support frame was constructed.

The generators were installed complete with plant room acoustic equipment, alongside two incumbent Caterpillar generators. They were then connected into the existing 10,000 litre fuel tank arrangement.

The newly installed ComAp synchronising controllers were then modified to ensure compatibility with existing synchronising systems.

All new infrastructure was delivered and installed by the WBPS Logistics and Project teams within predefined time frames and budgets.