WBPS POWER YOU CAN TRUST

NHS London North West University Healthcare NHS Trust

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 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

NORTHWICK PARK HOSPITAL, HARROW LONDON

Northwick Park Hospital is a major general hospital in Harrow, Greater London, managed by the London North West University Healthcare NHS Trust. It falls within the boundaries of the borough of London Borough of Brent, in its extreme north-western corner.

An extensive project, the scope included the installation of two high capacity generating sets, housed in bespoke sound reduced enclosures. This scope of works also included system design, factory testing carried out at our testing facility, delivery off load, positioning and finally, commissioning.WB Power were the principal contractor on the project, managing all aspects from start to finish.

PROJECT OVERVIEW

6MVA

GENERATOR INSTALLATION
Two 3MVA Kohler-SDMO prime rated generators installed on-site

SOUND RESTRICTIONS
Both enclosures were designed to meet a sound level not exceeding 65dBA @ 1m.

FUEL MANAGEMENT SOLUTION
The generators were linked with an 8 hour capacity local day tank adjacent to the container with the fuel supply connected directly to the hospital's bulk fuel system.

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

OTHER REQUIREMENTS

FOOTPRINT RESTRICTIONS
CONTROL SYSTEM INTEGRATION

INTRODUCTION

An extensive project, the scope included the installation of two high capacity generating sets, housed in bespoke sound reduced enclosures. This scope of works also included system design, extensive factory testing, off load and positioning and extensive site testing.

THE PROBLEM

Due to the layout of the existing Hospital building and surrounding grounds, access to the generator was limited. Furthermore, there were several technical requirements within the hospitals which WB needed to fulfill in order to meet the specification. The first of these was that the new generator control system was to be designed to fully integrate with the hospital's pre-existing building management system. The second was any solution designed should meet a sound level not exceeding 65dBA @ 1m.

SOLUTION & OUTCOME

WB Power Services project managed the delivery, installation and commissioning of two 3000kVA 11kV prime rated generating sets. Each housed in bespoke sound reduced enclosures, manufactured to the consultants exacting standards, with the total package fully meeting the requirement of HTM-06.

Both enclosures were designed to meet a sound level not exceeding 65dBA @ 1m. The generators were linked with an 8 hour capacity local day tank adjacent to the container with the fuel supply connected directly to the hospital's bulk fuel system.

The advanced Kohler / SDMO AMP802 generator control system was designed to fully integrate with the hospital's building management system (BMS) to provide a comprehensive generator monitoring and duel redundant control of the HV distribution.