CASE STUDY

CRITICAL IT SUPPORT

Location

Leeds, United Kingdom

Product configuration

GGW300G
Natural Gas Gen-Set

Application

Standby Power

End user/Contractor

Financial Services Provider

SUMMARY

A Pramac GGW300G natural-gas-fuelled generator was the ideal solution for a plant room installation to support critical IT Infrastructure.
A leading international financial services provider has chosen a Pramac 300kVA natural-gas-fuelled standby generation system to provide back-up power for its critical IT infrastructure at its recently converted Leeds city-centre offices.
The client needed a power solution with a minimal footprint and for this reason, the Pramac gas generator was the right solution

TECHNOLOGY

The Pramac range of natural-gas-fuelled generator sets features powerful Generac rich-burn engines, which are optimised for stand-by applications, even with a low-pressure gas supply.

Natural gas as a fuel for back-up power generators presents several advantages when compared to traditional diesel systems. With virtually unlimted run time, the gas engines are optimised to achieve 10-second start times and high 1° step load acceptance whilst achieving ultra-low exhaust emissions.

IDEAL SOLUTION

«An ideal solution for this type of retrofit application»

Stuart Watson – Operations & engineering director – ***Ylem Energy Ltd***

PRAMAC

CRITICAL IT SUPPORT

CHALLENGE

Background:

- **New office block development without provision for standby power support**
- **Limited space available to locate the standby system**

The client required a back-up power system to support its critical IT infrastructure in a recently developed multi-use commercial building located within the city centre.
The building didn't have any spare plant room space to accomodate a generator set and fuel storage system. The design and location of the office complex also added additional air quality and aesthetic challenges which resulted in the design team exploring standby power supply solutions beyond the traditional diesel generator.

SOLUTIONS

A Pramac GGW300G 300kVA standby-rated open genset with a Generac 14.2L natural-gas engine complete with three-way catalyst was chosen.

To ensure a reliable and clean back-up power system that had a minimal footprint requirement, the design engineer selected a Pramac GGW300G natural-gas-fuelled generator.
A mezzanine floor was installed in the building's service area and an accoustically treated plant room space created to house the generator. As there were no fuel storage tanks, fill points or transfer systems required, the impact on this operational area was kept to a minimum.
The fast-start capability of this model ensured that the client's IT system would remain operational throughtout any disruption to the building's power supply.

RESULTS

The innovative natural-gas-fuelled generator provides the solution to a complex and challenging installation.

The Pramac GGW range of generators is powered by Generac's rich-burn natural-gas engines. This makes them perfect for this type of standby power application. The combination of quick-start and high load acceptance that rivals a diesel generator, the system's minimal footprint and exhaust gas emissions made it the ideal choice.
The system was supplied and commissioned by flexible generation specialist, Ylem Energy Ltd – one of the UK sales and service partners.

"Pramac's range of packaged and open gensets is an ideal solution for this type of retrofit application. With space being at a premium – particularly in this city centre location, the unpackaged genset has been cleverly integrated and will ensure that the end user has a reliable source of standby power readily available."

*Stuart Watson – Operations and engineering director - **Ylem Energy Ltd***

PowerZone control system with colour touch screen display

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