

# CASE STUDY

**Client:**

**Large Scale NHS Trust Facility**

**Project:**

Providing a seamless temporary power infrastructure for a leading UK healthcare institution during a full facility power upgrade



# LEADING NHS HOSPITAL



A prestigious UK hospital required a comprehensive upgrade of its high-voltage (HV) and low-voltage (LV) generator infrastructure. As the hospital transitioned to a state-of-the-art backup power system, Powerhire played a critical role in ensuring continuous power throughout the project.

Working in collaboration with our sister company, The Generator Company (TGC), Powerhire was tasked with designing and implementing a fully managed temporary power solution. This included the provision of multiple high-capacity generators,

temporary power infrastructure, including:

- *4x 1250kVA containerized rental generators*
- *Bulk fuel tanks with fuel management and safety systems*
- *Step-up transformers, distribution boards, and cabling*
- *Resistive load bank for scheduled performance testing*
- *24/7 remote monitoring and support*

*“This project highlights Powerhire’s ability to design, install, and manage complex temporary power infrastructures in critical environments” - David Allport - Powerhire Director*

load banks for testing, and a full support network to ensure uninterrupted power across the hospital estate.

To maintain 24/7 power without disruption, Powerhire deployed a robust

By providing a reliable, adaptable, and fully monitored power solution, we ensured a seamless transition between the old and new generator systems while minimizing downtime in this critical healthcare environment.





## KEY CHALLENGES & SOLUTIONS

### Maintaining Continuous Power in a Live Healthcare Environment

Hospitals depend on uninterrupted power to support critical care services. Powerhire designed a phased approach, allowing temporary generators to integrate seamlessly with the existing infrastructure, ensuring zero disruption to hospital operations.

### Complex Installation in a Restricted Space

Seamless coordination with 'The Generator Company', the lead contractor for the new installation, was essential in navigating the complexities of this project. With extensive civil works underway, along with heavy machinery deliveries and the removal of old generator systems, precise scheduling and collaboration were key to avoiding conflicts and ensuring efficiency.

By maintaining a clear understanding of the overall project timelines, Powerhire ensured that our temporary power infrastructure complemented the permanent installation process without causing delays or disruptions. This careful planning not only safeguarded uninterrupted hospital operations but also supported The Generator Company in executing their complex installation and rebuild without obstruction.

Working within a confined hospital site posed logistical challenges. Our team strategically placed equipment, ensuring accessibility while maintaining safety and efficiency. Detailed planning and coordination with hospital management were essential in achieving a smooth setup.

### Noise & Emission Control

Operating in a sensitive hospital environment required us to minimize noise levels and emissions. Our generators were equipped with noise attenuation measures, ensuring that sound levels remained within hospital compliance limits.

## PROJECT EXECUTION & SUPPORT

From design to decommissioning, Powerhire provided a fully managed temporary power solution, ensuring seamless operation at every stage. Our on-site project management team oversaw all aspects of temporary power provision, while routine load bank testing validated system performance. To maintain uninterrupted operation, we coordinated fuel deliveries and implemented remote monitoring. Additionally, our 24/7 emergency response team was on hand to swiftly address any unexpected power issues, guaranteeing reliability and peace of mind.

*“Working within a confined hospital site posed logistical challenges”*



## OUTCOME & CLIENT IMPACT

Powerhire successfully delivered a reliable, uninterrupted temporary power solution, allowing the hospital to upgrade its permanent power infrastructure without risk to patient care. Our expertise in large-scale generator hire ensured a perfect transition, with hospital management praising our professionalism, efficiency, and commitment to operational continuity.

## CONCLUSION

This project highlights Powerhire's ability to design, install, and manage complex temporary power infrastructures in critical environments. Our expertise in emergency generator hire, coupled with a proactive approach to power management, ensured a successful outcome for one of the UK's leading healthcare institutions.

*Contact Powerhire today to discuss how we can deliver reliable and efficient solutions tailored to your needs*

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