

PROJECT | ROYAL PRESTON HOSPITAL CHP & STAND-BY GENERATION

**OUR ROLE | ENERGY APPRAISAL, DESIGN, & CONTRACT MANAGEMENT
CDM COORDINATOR**

SAVINGS | OVER £13,000 SAVED EVERY WEEK

Facing a shortage of power, escalating running costs, and Government demands for reduced emissions, The Trust turned to NIFES for a solution.

Having established the base load, a gas-fired CHP was selected comprising:

- 1.8 MWe gas-fired Jenbacher engine, continuously generating electricity
- HV/LV ring main alterations to accept the new power supply
- Waste-heat boiler generating steam from engine exhaust gasses
- Cooling jacket heat piped to plantrooms for heating and hot water



The project was challenging; particularly the assessment of over-pressure risks in the light of changing NFPA68 guidance published after the contract was let.

In a separate contract, the hospital's ageing stand-by generators were replaced with two 1,250kVA oil-fired engines in purpose-built acoustic enclosures.



The capital value of the CHP was £2.3m and the generators cost £1m.

To discuss NIFES extensive portfolio, contact us on the details below.