



Case Study

Energy efficiency, Finance,
Estates Management, Carbon
reduction

**Blackpool Teaching Hospital
NHS Foundation Trust**

Replace ageing calorifiers with plate heat exchangers

The Blackpool Trust used a 100% interest-free loan to replace outdated heating and hot water systems. The hot water storage was replaced with a new energy efficient solution. The project is expected to save the Trust over £103,000 per year in energy costs and over 530 tonnes of CO₂ emissions.

What was the issue being addressed?

The Foundation Trust wanted to improve the efficiency of their estate. They identified seven steam calorifiers in three plant rooms across the Hospital estate that could be replaced to improve energy efficiency.

The aging units were reaching their end of life and required a significant weekly maintenance to keep the plant functioning correctly.

The Trust had already received funding from the Department of Health to invest in energy efficiency technologies and utilised Salix funding to extend the project, as there was no internal capital funding available.

What action was taken to overcome the issue?

The Trust used Salix Finance's interest-free loan to pay for the installation of new equipment that delivered further carbon and energy savings across their estate.



One of the new units

Public sector bodies, including NHS Trusts, are eligible to apply for an interest-free loan from Salix Finance. The Trust made an application via an online system on the company's website and provided details of the equipment specification, installation schedule, estimated carbon and energy savings, and other supporting documentation.

Salix then made a technical assessment of the application and project and were able to make a decision within two weeks.



Salix Finance can support NHS Trusts and Foundation Trusts by funding energy and carbon reduction measures identified in Sustainable Development Management Plans (SDMP) and estates strategies. The loan is agreed before work begins and is paid on completion. Salix Finance can offer up to four interim payments throughout the installation process.

What was the impact?

The funding has meant modern energy efficient plate heat exchangers have now been installed. These provide heating and hot water to critical patient areas throughout the hospital. This project is expected to achieve annual saving of over 530 tonnes of CO₂ and over £103,000. This project has a payback period of 4.6 years and the loan will be paid back in eight equal instalments over four years. This installation will also lower the Foundations Trust's carbon emissions in line with their carbon reduction commitments.

Lessons learned / success factors?

The loan process was straightforward and the excellent client support ensured that the project as well managed and completed within the given timescales and to budget.

Scaling up

This solution could prove popular amongst estates managers across the healthcare sector. Since beginning work with the NHS in 2007,

“Due to the success of this project, the Trust is now in the process of developing a 3 year energy efficiency project plan to utilise Salix funding. Not only will this help us achieve our carbon reduction targets, but will also relieve pressure from an already strained existing budget, which is greatly needed at this time.”



**Carla Wilson,
Energy Technician,**

Salix has worked with over 40 NHS Trusts and Foundation Trusts and funded over £33 million worth of projects. Salix has supported over 460 energy efficiency projects, which are projected to save over £140 million and 822,000 tonnes of CO₂ over the lifetime of these projects.

For further information on this project please contact:

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