

Delivering major energy and carbon saving improvements in partnership with Northern Lincolnshire and Goole NHS Foundation Trust



" This contract will enable the Trust to invest in a number of energy conservation methods that will reduce its consumption of energy, and therefore its spending on energy. It will help us achieve the majority of our 25 per cent target of reductions in CO₂ emissions."

**Executive Director of Facilities,
Northern Lincolnshire and Goole NHS Foundation Trust**

Background

Project context

Northern Lincolnshire and Goole (NLaG) are always looking for ways to provide a world-class estate whilst delivering healthcare in a more sustainable way. With rising energy costs and a desire to achieve an ambitious 25% reduction in carbon emissions by 2016, NLaG was operating in a challenging environment with:

- Challenging Cost Improvement Plan targets set
- Limited access to capital funds
- Some ageing energy-related infrastructure
- A need to engage staff with energy and carbon reduction initiatives
- A need for resource to address the above

The Solution

A strategic partnership

To address these issues NLaG and British Gas formed a strategic partnership that would help unlock the significant benefits associated with guaranteed energy and carbon reduction through an Energy Performance Contract (EPC). Such a project would help the Trust meet Cost Improvement Plan targets, mitigate the risk of future energy price increases and re-invest savings into patient care. It would also seek to improve the Trust's sustainability and environmental credentials.

Approach

A tried and tested process, which has been developed through British Gas' experience of working on a number of similar projects in the NHS, is being used to deliver the project:

1. Investment Grade Audit

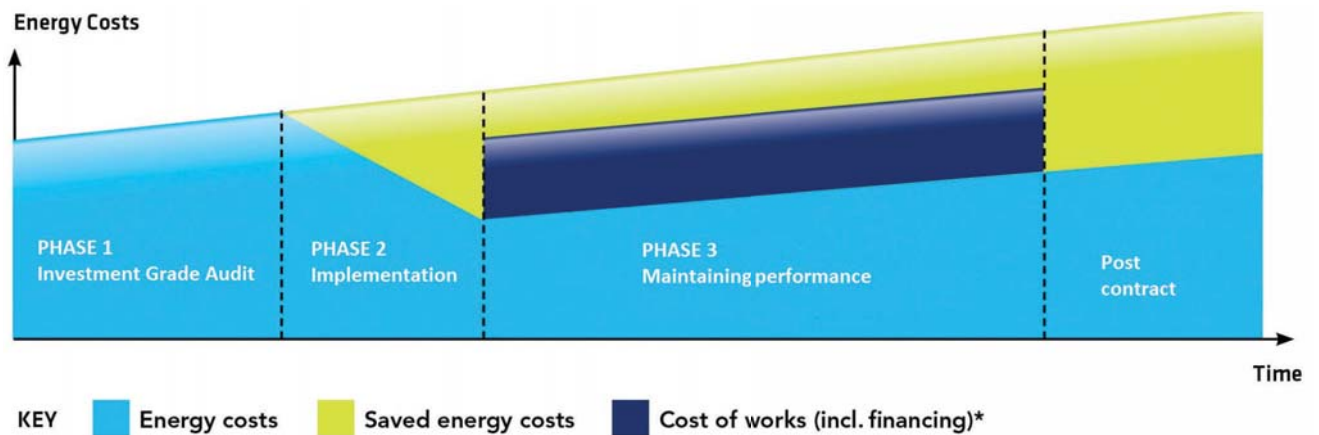
Working in partnership to clearly define the project objectives, plan project works, identify energy and carbon saving measures and design the end solution.

2. Implementation

Upgrading and optimising the chosen measures.

3. Maintaining performance

Monitoring and verifying savings using internationally recognised protocols to ensure the guaranteed performance is delivered.



*Cost of works will be reduced if self-financed

Collaborative working

Following ISO-9001 accredited methodologies, British Gas commenced comprehensive studies of existing infrastructure and considered various potential Energy Conservation Measures. Working in partnership with the Trust, backlog maintenance was also reviewed and where possible included within the work scope. Close collaboration and careful planning with NLaG staff including clinical members ensured day-to-day operations were not compromised and patient care remained the top priority. Future changes in the estate are also allowed through a mutually beneficial contract.

What is the project achieving?

As a result of the project British Gas is underwriting utility cost savings of £528,000 per annum and the equivalent of 3,360 tonnes CO₂ per annum. This is being achieved through significant investment across the Trust's estate in a number of measures including:

- Lighting and lighting controls
- HVAC systems
- Building energy management system
- Combined Heat & Power and central plant optimisation
- Pipework insulation
- Renewable energy technology opportunities
- Water efficiency measures

As part of the partnership, work is also being undertaken to investigate future opportunities for savings and enhanced resilience through the potential adoption of new low and zero carbon energy sources and de-steaming of the site. The proactive identification of other saving opportunities helps to ensure maximum benefit is delivered throughout the length of the contract.

The Trust and British Gas are also working together to deliver a staff energy awareness programme. This will help the NLaG to achieve the highest possible engagement with staff and public alike whilst delivering incremental savings.

" This is a substantial investment and one we are very pleased to make. The savings generated by the energy-saving schemes will help the Trust to meet its quality challenge as well as reducing its carbon emissions."

Chief Executive,
Northern Lincolnshire and Goole NHS Foundation Trust

Supporting health and wellbeing and building strong links with the local community

With rising energy prices and more extreme winter weather conditions being experienced in recent year's fuel poverty has become a big issue for people in the UK. There are some serious health implications associated to this issue; Children living in cold homes are twice as likely to suffer from respiratory problems and The Marmot Review found that cold homes cause and exacerbate serious health issues such as cardiovascular disease and mental health problems. There are over 50,000 households believed to be in fuel poverty in regions served by the Trust. As part of the EPC, British Gas and the NLaG are working together to reduce fuel poverty in the local community by leveraging funding available through the Energy Company Obligation to provide free energy efficiency measures to fuel poor households. The programme will aim to improve the health and wellbeing of staff, patients and visitors alike, supporting the Trust's wider goals.