



Hinchingsbrooke Hospital,
Cambridgeshire.

Ideas at work.

Essential services for business, delivered with energy.

Since 1983, the people of Huntingdonshire have relied on this Acute District General Hospital 24 hours a day, 365 days a year. So when its ageing infrastructure had to be replaced, the hospital needed a partner who could be trusted to deliver a new efficient heating and power solution – with no downtime.

'Resilient' is a good word to describe health service staff. But it also sums up the systems which hospitals must have in place to handle the unexpected. That's why, in a healthcare setting, a heavy engineering project also becomes a delicate operation. Cost-efficiency is critical, but so is managing complexity. From design to delivery, the team at SSE Enterprise takes a 'fail-safe' approach. We implemented a full-scale plan – ultra-efficient CHP plant and boilers,* super low-loss transformer, new low voltage infrastructure and back-up generation, ensuring the whole system delivers N+1 resilience. And without a single 'reportable incident' in over 50,000 man hours worked.

* 'Combined heat and power' plant – allowing the hospital to produce low cost electricity and hot water.

How we engineered over £3m in savings for a local hospital.

Smart energy saving technology that will pay for itself.

1. Challenge

- A 24 hour Acute District General Hospital
- Ageing infrastructure
- Inefficient heating and power
- Financial constraints
- Technical challenges
- No interruptions to supply
- New turnkey solution required

Built in the 1980s, the hospital at Hinchingsbrooke required a radical infrastructure overhaul. By modern standards, its ageing boilers were highly inefficient. The hospital issued a tender. However, from our experience, we felt there was a different, more innovative approach that would deliver better payback for the hospital.

2. Solution

- Design and build
- HV infrastructure / metering
- Super-low-loss substation
- N+1 future proofing
- 2 No 1500kVA back-up generators
- 2 No 238kW_e CHP / gas fired units
- 5 No 1 MW dual fuel boilers
- BEMS system with heat meters

The team at SSE Enterprise worked hard to understand the customer's real requirement.

For sustainability, the hospital needed a bespoke solution – one which would modernise facilities but also make sense financially. It was essential that – through smart finance and innovative engineering – the project would payback as quickly as possible.



Finance

- 0% part finance through UK 'green' schemes
- Achieving over £0.35m saving pa
- Payback in nine years (excluding export to grid)
- Net saving > £3m

Investing in energy saving has never been a better idea. We're entering a period when a new range of technologies coincide with the availability of low cost finance.

This makes large capital projects, not just financially feasible, but profitable. Very short payback periods immediately put future savings on the bottom line.

3. Results

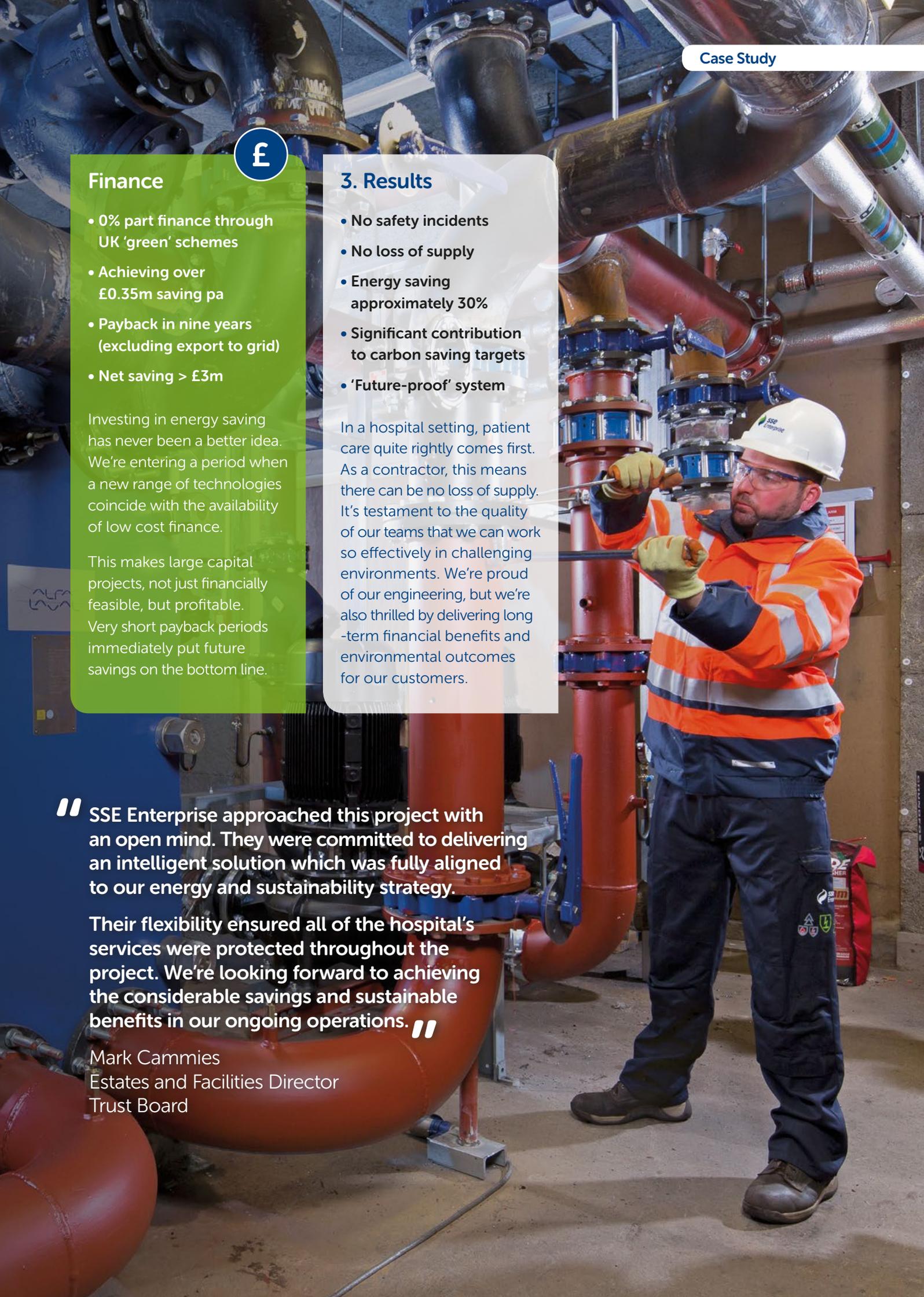
- No safety incidents
- No loss of supply
- Energy saving approximately 30%
- Significant contribution to carbon saving targets
- 'Future-proof' system

In a hospital setting, patient care quite rightly comes first. As a contractor, this means there can be no loss of supply. It's testament to the quality of our teams that we can work so effectively in challenging environments. We're proud of our engineering, but we're also thrilled by delivering long-term financial benefits and environmental outcomes for our customers.

“ SSE Enterprise approached this project with an open mind. They were committed to delivering an intelligent solution which was fully aligned to our energy and sustainability strategy.

Their flexibility ensured all of the hospital's services were protected throughout the project. We're looking forward to achieving the considerable savings and sustainable benefits in our ongoing operations. ”

Mark Cammies
Estates and Facilities Director
Trust Board





Why did Hinchingsbrooke Hospital choose SSE Enterprise to bring its ageing infrastructure into the 21st century? With our track record and safety ethos, it's no accident.

SSE Enterprise is no ordinary energy services provider. We're part of one of the UK's leading, longest-established energy companies.

So, if you want a partner whose expertise extends from high voltage metering (which can save you money) to STOR and TRIAD payments (which can make you money), look no further.

Integrated solutions

For Hinchingsbrooke Hospital, we're proud to provide a comprehensive range of essential services:

- HV infrastructure and HV metering
- Super low-loss substation
- LV infrastructure
- 2 No 1500kVA back-up generators
- 2 No 238kW_e CHP / gas fired units
- 5 No 1 MW dual fuel burners
- Building management systems and energy monitoring

It's not just the wide-ranging expertise which attracts major organisations.

Of course, we take care of business. Our focus is enabling our customers to take advantage of new energy-efficient systems and smart financing options.

But, first and foremost, we look after people. With 35 safety awards from RoSPA, we have a 'health and safety' ethos that's engrained in our culture.

So, with SSE Enterprise as your principal contractor, you can be sure that your project is compliant with all current regulations and best practices.

Future proofing

In all the years we've been in business, we've witnessed constant innovation. And it won't stop now.

With our end-to-end energy expertise, your organisation can stay ahead of the curve. From low-energy devices to highly-efficient systems, we can help you reduce energy use, produce less carbon and, ultimately, save money.



Energy



Contracting



Lighting



Telecoms



Utilities



Energy Solutions

For innovative ideas that make sense, talk to SSE Enterprise.



0345 070 2019



enquiries@sseenterprise.co.uk