

NHS PROPERTY SERVICES

Carbon reduction and energy-cost saving pilot project



AT A GLANCE

- Hillside's work identified an average of 216 TCO₂e reduction per NHS site and an annual cost saving per site, too.
- We developed a business case for the NHS with estimated carbon emissions savings of 55%, with the capital investment to be paid out of annual cost savings.
- With visualisation of the carbon and financial savings available, NHS property services embarked upon a long-term energy retrofit of the estate that is currently ongoing.



THE PROJECT

Working with Faithful & Gould, Hillside was commissioned to review and recommend energy savings and carbon footprint reduction opportunities for 4,000 NHS primary care facilities.



THE METHOD

We conducted site surveys at a representative sample of 5% of the estate, aligning our findings to stored data sets to develop an estate-wide model of economic and carbon emission saving opportunities for energy retrofits.

This financial model was used to create the business case to support the investment strategy implemented by the NHS Sustainability Team.

The investment strategy included opportunities for various technology retrofits, including solar, heat pumps, controls, smart meters and battery and thermal storage.



CLIENT BENEFITS: IN DETAIL

Cost savings

Our team identified that an investment in energy retrofits for each primary care site could create annual cost savings, generating a 7.5-year payback and further savings per year following that.

Stakeholder reassurance

The economic and emissions models created from the pilot project helped to prove the commercial and social impact to the Property Services Board, so that the retrofits could be pursued.

Improved organisational longevity

Moving to a more eco-friendly approach meant that the NHS can ensure they are fit for the future and improve patient support long-term.

Combatting climate change without costing the earth