

## Overview

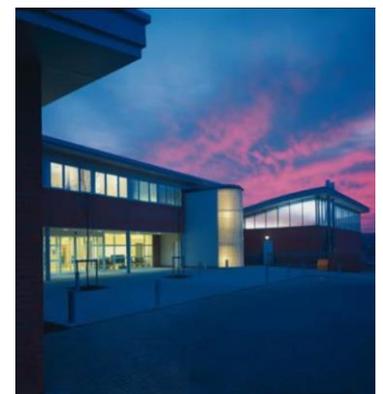
**Sussex Partnership NHS Foundation Trust (SPFT) has a target to reduce carbon emissions by 35 per cent by 2020 and to deliver improvements to its key public buildings. Works at Hove Polyclinic are part of the Trust's commitment to energy efficiency and achieving value for money for the public sector.**

SPFT is using the National Re:fit Programme to deliver a pilot programme for energy efficiency across two campuses and one additional hospital, Hove Polyclinic being part of Mill View campus. This project is part of the Trust's newly established Sustainable Development Management Plan (SDMP), which is driving a commitment to reducing energy consumption and carbon emissions across the Trust's property portfolio.

The Trust initially identified 16 buildings for the pilot phase, including Hove Polyclinic, all of which had maintenance backlog issues with their mechanical and electrical systems. Assessing opportunities to tackle these issues, the Trust identified use of Re:fit as a method to investigate and bring improved efficiency to a wide range of buildings under a guaranteed savings programme. For Hove Polyclinic, a late-1990s building that hosts a Day Centre and offices, this will mean halving its annual energy bill by replacing obsolete ventilation plant, upgrading the lighting, introducing cavity-wall insulation and behaviour change, plus installing 70kWp of PV panels in the roof.

Supported by Local Partnerships, the Trust ran a mini-competition under the Re:fit programme and Engie was identified as preferred bidder in March 2016. Engie completed Desktop Assessments for the selected buildings at the end of summer 2016 and IGP's in March 2017. Total net savings of £127,243 per year have been identified, with Hove Polyclinic contributing more than 15 per cent to the overall figure.

<b>Project:</b>	<b>Hove Polyclinic</b>	
<b>Projected savings:</b>	£19,226 energy spend reduction per annum (50%)  Energy savings of 17,780kWh	81 tonnes of CO <sub>2</sub> saved per annum (43%)
<b>Value:</b>	£207,000 investment in retrofit works	Simple payback of 10.8 years
<b>Timescale:</b>	Installation to commence summer 2017	



*"With such a diverse property portfolio ranging in age from 10 to 100 years old, seeking to engage in a programme of energy conservation and cost reduction, the Sussex Partnership Foundation looked to the services of Local Partnerships to provide guidance, direction and professional support in the process of identifying opportunities, evaluating potential suppliers and the process of selecting the right partner. As a part of this arrangement, Local Partnerships supported the Trust in the form of back-office expertise and provided a dedicated Project Manager, who with her considerable knowledge and experience of all elements of the project process, was able to support, advise, guide and direct the Trust resulting in the Sussex Partnership being able to make a confident and informed decision when selecting a partner."*

**Gavin Baker, Project Manager, Sussex Partnership NHS Foundation Trust**

## Summary of Energy Conservation Measures (ECMs)

There are a number of ECMs proposed for Hove Polyclinic, some of which are listed below.

### Lighting upgrade

Installation of high-efficiency LED lighting by complete upgrade of some of the fittings and retrofit of others will save the clinic 28 tonnes of carbon and £6,374 per year, a reduction of 28 per cent on the site's total energy consumption.

### Cavity-wall insulation

Hove Polyclinic, at Mill View, offered the opportunity to fill the existing cavity with Knauf Supafil Fibre certified by BBA at a cost of £19,345. This will generate savings of £2,217 a year and 14 tonnes of carbon annually, achieving 63 per cent improvement in the U-value of the walls.

### Solar PV

A PV system including 247 panels of 280W, totalling a capacity of 69.16kWp, will be installed on the roof of Hove Polyclinic. This will achieve net savings of around £10,000 a year and 34 tonnes of carbon at a cost of £93,773, meaning that a payback of just 10.1 years will be achieved.

### AHU fan replacement

Replacement of two obsolete existing fans, supply and extract of the Polyclinic AHU, will save Hove Polyclinic four tonnes of carbon and just under £1,000 a year for an investment of just over £10,000.

## Energy efficiency and financial savings through Re:fit

Re:fit is a procurement framework and support service available to all public sector organisations in the UK. Since 2009 it has been helping organisations to deliver “spend-to-save” environmental retrofit projects that both improve their buildings and, importantly, make substantial guaranteed financial savings.

**For more information about the National Re:fit Programme**, contact [robert.mckinnon@local.gov.uk](mailto:robert.mckinnon@local.gov.uk) or phone 07920 702 297.