

Contributor: M.Summers

Background: In 2005 the Carbon Trust came to the St. Margaret's Hospital site to carry out an NHS Opportunities Assessment Report on the energy performance of the site.

Target: The agreed objective of the assessment was to develop an action plan to deliver 15% drop in energy consumption in comparison with the 1999/2000 base year date by 2010. This was in line with Carbon/Energy Strategy for the NHS in England.

Data for this year was not available so data for 2000/01 was used instead.
The Performance in this year was 61,401 GJ of delivered energy for a heated volume of 74,883 cubic meters.

This giving a delivered energy PI of 82 GJ/100 cubic meters.

In the year of the Assessment 2004/05 the performance was 39,819 GJ for a heated volume of 56,085 cubic meters. Degree day corrected.

This giving a delivered energy PI of 71 GJ/100 cubic meters.

This reduction was mainly due to the closure of some of the old war time ward blocks thus reducing the steam demand on the centralised boiler house.

The original target for the St. Margaret's site was for a primary energy consumption of 60, 545 GJ however as this had already been achieved due to considerable changes that had already taken place a secondary target of 60 GJ/100 cubic meters was imposed. This would equate to a delivered energy consumption of 33,660 GJ.

This target was based from National Benchmarks which listed a good practice for a "cottage hospital" as 61.8 GJ/100 cubic meters.

Last year the performance was 21,695 GJ for a heated volume of 51269 cubic meters.
This giving a delivered energy PI of **42.3 GJ/100** cubic meters.

These further savings were achieved by:

- The closure of all of the war time blocks and moving of the services into a new PFI block.
- Decommissioning of the centralised steam boiler house and moving all heating services to the new PFI block and new decentralised boiler houses.
- New boiler houses were converted to gas fire (from oil) when the new supply was made available.
- Refurbishment of some buildings to upgrade to Building L2b