

CASE STUDY



BMI Healthcare

Summary

EBMI Healthcare is the UK's largest private hospital provider. It has over sixty hospitals and treatment centres across the UK and four de-contamination facilities. It handles over 275,000 in-patient and 1,500,000 out-patient visits each year.



Following a competitive tender JRP Solutions was selected to take responsibility for ensuring that BMI Healthcare was fully ESOS compliant before the 5 December 2015 deadline. Following a detailed review of BMI Healthcare's estate, transport assets and energy consumption data it was agreed that it would be most cost effective to adopt a sampling approach to the ESOS audits.

Scope of audit

Audits were carried out on six hospitals of different ages and sizes plus one of the de-contamination facilities, which together represented 94% of the organisation's energy consumption. Energy used by BMI Healthcare's transport assets and office buildings was treated as de minimis.

The significant energy users were-

- Space heating
- Air Conditioning
- Lighting

Prior to starting on the ESOS audits BMI Healthcare was already proactively managing its energy use and had embarked on a companywide programme to replace all lighting with LED equivalents. This was endorsed by the ESOS audits.

Savings identified

Additional energy saving opportunities identified by JRP Solutions included:

- Introducing improved energy monitoring and targeting systems with responsibility for performance being devolved to the sites themselves
- Installing additional lighting controls such as occupancy detection in toilets and daylight sensors in areas with high levels of natural light
- Introducing a motor replacement policy so that when motors fail they are replaced with energy efficient models instead of being re-wound it or replaced with a like-for-like unit
- Fitting variable speed drives to large fan and pump motors
- Installing solar PV arrays on south-facing roofs

At the audited sites annual energy savings of 3,130 MWh were identified. When scaled up to represent the whole BMI Healthcare estate the identified annual savings potential was 17,560 MWh or 12.5% of the total energy consumption, which is equivalent to £1.05 million per year.

A spokesperson from BMI Healthcare said, "*JRP's ESOS Assessment is a very comprehensive piece of work... we are pleased that we chose JRP Solutions to do our ESOS Assessment*".

SUMMARY

Customer:
BMI Healthcare

Industry:
Private healthcare

Services Provided:
Energy audits to comply with the requirements of the Energy Savings Opportunity Scheme, (ESOS)

Potential Savings Identified:
£1.05M

Average Payback on Investment Required:
2.2 years

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