

# Knowledge Transfer Partnerships

## Case Study

### Scarborough and North East Yorkshire Healthcare NHS Trust and De Montfort University



“The KTP project has been very successful and a great learning process between the various participants. Overall the KTP system fully met my expectations because it not only delivered benefits to my organisation but also to the Associate and the academic partner - as well as other NHS parties who were engaged via a wider dissemination of information about the progress of the project.” **Dr Andrew Bennett, Head of Capital Projects**

#### Background

The Trust spends over £1m a year on energy and accounts for around 6,000 tonnes of CO<sub>2</sub> emissions annually. The NHS has a Carbon Reduction Strategy to reduce its CO<sub>2</sub> emissions by 10% by 2015, and also a target of overall greenhouse gas emissions by 34%. The Trust does not have expertise in strategic mapping and analysis of complex systems (plant, buildings, controls, behaviour), but sees this type of analysis necessary to bring about a step change in overall environmental performance.

#### Objective

To map out the Trust’s energy and water use, and develop and implement measures for improvements in both technical and behavioural terms.

#### Trust benefits

The project has enabled the Trust’s Estates Team to develop a structured approach to energy and carbon management, reduction of energy consumption and carbon emissions reduction with the consequent cost savings that are so critical to the Trust.

The 2 year project is expected to save over £40,000 each year from schemes completed or underway, and reduce carbon emissions by almost 200 tonnes. Around £26,000 of savings came from insulation of buildings.

New lighting technology has been deployed to provide a brighter environment in some corridors, and a newly refurbished ward with much reduced energy use. Light Emitting Diodes (LED) panels have replaced normal fluorescent tubes.

Dr Andrew Wright, DMU said: “It is satisfying to see academic knowledge helping the NHS to save money and ultimately have more money to spend on healthcare.”

#### Associate benefits

Simon Smeathers gained substantial knowledge and experience during the project including:

- Training from CIBSE/IEMA
- Experience of working with external consultants
- Business case development, managing technical aspects and analysing financial implications
- Experience of applying for funding support for energy efficiency projects

Simon is now employed as an Energy Management Project Manager within a not-for-profit Environmental Consultancy, as a direct result of his experience gained throughout the KTP.

#### University benefits

This project has provided:

- The successful implementation of LED lighting in several areas of the hospital will be used in MSc teaching material relating to energy in buildings
- Case studies in energy management and short term operating reserve (STOR) in non-domestic buildings will be generated for use in both post graduate and undergraduate courses
- Reliable field data captured from buildings
- Three research papers and journals

#### Get in touch

For more information about how we can help your business, call (0116) 250 6211 and speak to a member of the Knowledge Exchange Team, alternatively visit [dmu.ac.uk/ktp](http://dmu.ac.uk/ktp)

This Partnership received financial support from the Knowledge Transfer Partnerships programme (KTP). KTP aims to help businesses to improve their competitiveness and productivity through the better use of knowledge, technology and skills that reside within the UK Knowledge Base. KTP is funded by Innovate UK.