

## Case Study

The Energy Savers has been working with National Trust for over a decade helping improve comfort levels and save energy in National Trust owned properties nationwide.

Our Quattro Seal draught proofing system has been installed in Cottages, Post Offices, Village Shops and various other buildings of interest including;

- **Thorington Hall**
- **Mottisfont Abbey**
- **West Wycombe Village**
- **Luccombe Village**
- **Osterley Park**
- **Selworth & Allerford Villages**
- **Hilnicote Estate**
- **The Hub**
- **National Trust Yorkshire & North East**

...and of course, **Coleshill** in Wiltshire.

The picture below shows an operative in the process of installing Quattro Seal to a window, as featured in *English Heritage Publication, Glass and Glazing 2012*



Coleshill, was part of the National Trust's Low Carbon Village project – a joint initiative between npower and the National Trust. The project aimed to help residents of two National Trust-owned villages to reduce their carbon footprint and become more energy efficient. Residents of Coleshill benefited from loft insulation using sheep's wool, new boilers, water saving gadgets, low energy light bulbs, use of real time energy monitors and Quattro Seal draught proofing from The Energy Savers.

### The Challenge

National Trust own over 5000 privately rented properties of which the majority were built before 1919 and 25% are listed. Traditional buildings behave very differently and a house built before 1919 is likely to have been made using traditional materials and techniques. In particular, it will probably have solid (non-cavity) walls and plenty of natural ventilation. As a consequence, traditional homes can sometimes be quite cold and expensive to heat.

Windows in particular are a key area that usually require addressing and give opportunity to enhance the thermal performance of a building but with traditional features and planning restrictions it is necessary to look at draught proofing or secondary glazing rather than more modern double glazing solutions.

### The Solution

National Trust have used the Quattro Seal System for draught proofing in many properties as this offers a cost effective solution to draughty windows without compromising on the important aesthetic characteristics of the building.



### The Energy Savers Limited

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## Quattro Seal

- Robust, Long lifetime measure draught proofing system
- Can be fitted to any style of window or door
- All the benefits of double glazing at a fraction of the cost
- Ideal resource for hard to treat buildings that cannot be changed

### Benefits

- Faster warm up times and longer heat retention
- Up to 27% energy savings as per BRE report
- Reduction in draught driven complaints
- Increase in comfort levels
- Reduction in noise up to 10db in city areas with single glazing
- Reduction in cleaning –thus reducing cleaning cycles
- Maintenance free for its life
- Greater durability than other systems
- 5 year unconditional guarantee covers labour & materials
- Major reduction in fuel bills, boilers and controls will work more efficiently

## Tadpole

- Low cost, retrofit device fitted to existing heating system
- Works on any type of wet heating system
- Removes air from the heating water
- Eliminates the formation of corrosive magnetites formed by air in the system
- Scientifically tested to deliver results

### Benefits

- Saves up to 30% on domestic heating bills
- Extends life of boiler and component parts
- Installed in less than 2 hours, no need to power flush
- Fit & forget, maintenance free
- Payback 2 years

*“The Quattro Seal Draught Proofing System has made a real difference to occupants in various cottages in Coleshill especially during the cold winter months. The buildings are warmer and more comfortable for our tenants and the result blends in aesthetically –Jo Lugg, Low Carbon Village Project Coordinator”*

## The Result

The installation program was successful. It involved The Energy Savers surveying some 60 cottages and buildings in the village to provide a detailed plan cost of works and the expectant results. Tenants were then contacted to arrange appointments for installation. The installation program took approximately 16 weeks working around tenant’s availability and to be completed before the next heating season.

## The Energy Savers

TES is a limited company established in 1991 and has proudly been supplying to the Public Sector for over 20 year. Its BRE tested Quattro Seal Draught Proofing System and CERT rated Quattro Panel energy saving reflector panels are aimed at Public and Private Sector properties as a retrofit solution with grant schemes available via Salix Finance.

Installed in Town Halls, Civic Centres, Fire Stations, Police Stations, County Halls, Hospitals, Schools and Universities these products have been fully assessed by the Building Research Establishment and are now considered a major resource in helping clients achieve their CRC targets and reduce fuel bills.

The company also provides Tadpole, a unique device which improves the efficiency of domestic heating systems and Aireseal, a draught proofing system specifically designed for Housing Associations that helps alleviate fuel poverty for hard to treat buildings.

## National Trust

**We are a charity and completely independent of Government. We rely for income on membership fees, donations and legacies, and revenue raised from our commercial operations.**

We have over 4.1 million members and 61,000 volunteers. More than 17 million people visit our pay for entry properties, while an estimated 50 million visit our open air properties.

We protect and open to the public over 350 historic houses, gardens and ancient monuments. But it doesn’t stop there. We also look after forests, woods, fens, beaches, farmland, downs, moorland, islands, archaeological remains, castles, nature reserves and villages – for ever, for everyone.

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