Residential Care Home
Case Study

One of the leading care home companies in the UK completed a pilot using Hydromx, the nanotechnology energy saving solution and their analysts confirmed a 21% energy saving 24 hrs a day 365 days a year after an installation process which was carried out in just two days with no disruption to the residents or staff.

Over six months, gas consumption was compared to consumption from the previous year, adjusted for weather differences using Heating Degree Days Analysis (HDD), and data from a nearby International Airport Weather Station.

The home was heated by a multi-boiler cascade system with four Buderus GB162 boilers which provided both domestic hot water for the laundry and heating for all bedrooms and communal areas. All the bedrooms had a low water volume radiator with thermostats. Corridors and communal areas used steel panel radiators and low level, space saving radiators. The target space heating temperature settings remained set at 23 $^\circ$C throughout.

Over the six months, 45,000 kWh were saved, annualised at 99,000 kWh, resulting in the reduction of 18 tonnes of CO_2 emissions. These were savings of a little over 21% in a property where the heating is on all year round and the demands for warmth are higher than a typical house or office. This resulted in a return on investment in under 2 years.

Hydromx is a very cost effective energy saving opportunity. Our own energy analysts have used the HDD methodology using our gas consumption data and publicly available weather information to prove these savings of 21%. We are now looking at where we can benefit from using Hydromx in other properties".

- **Residential care home: 45 bedrooms on 2 floors**
- **Leading blue-chip Healthcare provider, midlands location**
- **21% energy saving**
- **24 hour x 365 days heating**
- **Annualised saving of 99,000 kWh and 18 tonnes CÔ**
- **Return on investment <2 years**

Read more about Hydromx & book a service by visiting our website:
www.eco-energi.com/eco-optimiser

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