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The new and improved efficient boiler room.

Hotel secretary Ray Boughan says: "We were exceptionally pleased with the results of the survey and the measures that have been taken to make the hotel more energy efficient. All of the companies involved in the modernisation of the plant room, and the switch from oil to LPG,

worked together to minimise disruption and allowed the hotel to operate as normal. Contractors, Hughes Beatty, based in Penrith, worked very swiftly and efficiently to complete the work in the time frame and the switch from the old system to the new one was seamless."

Calor's Alan Seggie believes that many more businesses can benefit from energy savings by applying for a Carbon Trust energy survey. He says: "Businesses can make an application to the Carbon Trust, done for them by NJK themselves. The process is simple and consists of just three stages; the application, the site survey, and the feedback and there is no obligation to implement the recommendations."

Hotel manager Les Thompson concludes: "By implementing NJK's suggested improvements to reduce our carbon emissions, the hotel has become more energy efficient and therefore resulted in the added benefit of cost savings. NJK has estimated that we will have made enough cost savings to cover the installation of the new equipment in less than six years."

Calor has been supplying LPG for over 70 years. We have more experience and technical expertise than any other LPG supplier in the UK. Delivery is taken care of by the largest supply network and one of the largest fleets of delivery tankers in the UK.

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Calor brings savings to remote hotel.



A better choice



“The hotel has become more energy efficient and has resulted in the added benefit of cost savings”

- By introducing the energy efficient measures at the hotel, primary fuel use reductions of over £6,350 have been estimated per annum
- A Carbon Trust study helped The Gilsland Spa Hotel identify where energy and cost savings could be made
- The changes are expected to result in the hotel reducing its CO₂ emissions by 116 tonnes per annum
- The hotel benefits from the ThinkTank® telemetry system from Calor meaning the gas level is monitored and Calor is notified when a delivery is due meaning the hotel's management shouldn't have to worry about arranging deliveries or running out of gas

For further information visit www.lpg-catering.co.uk
Call 0800 216 659 or email telemarketing@calor.co.uk



- BUSINESS Gilsland Spa Hotel
- NAME Ray Boughan
- POSITION Company Secretary



A Carbon Trust commissioned energy survey has led to improved efficiency and reduced fuel bills at the Gilsland Spa Hotel.

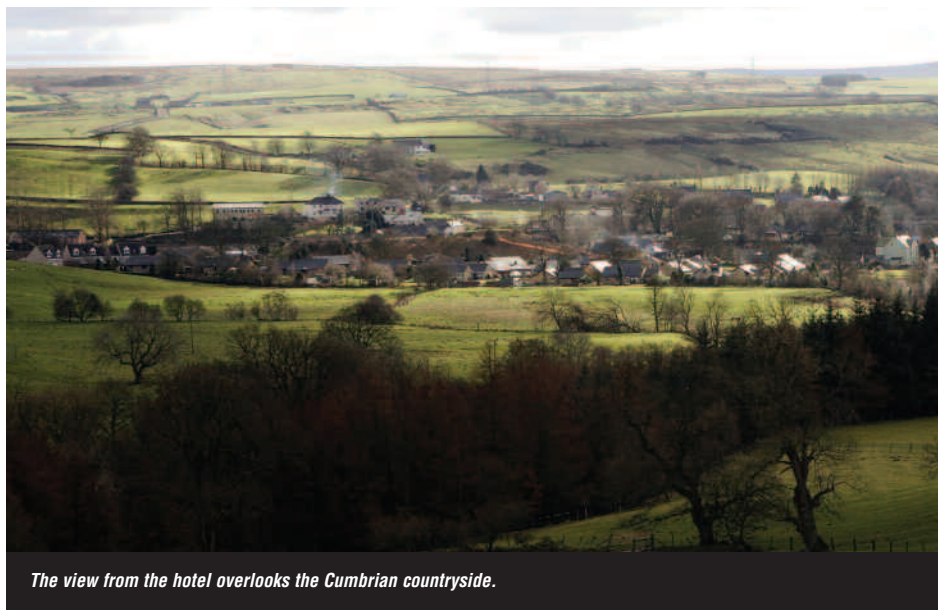
Idyllically located on the border of Cumbria and Northumberland the remote Gilsland Spa Hotel is set amongst 140 acres of park and woodland.

Like many hotels, rising energy prices, increased overheads and more stringent legislation introduced to increase the energy efficiency of commercial buildings have been a growing issue for the prestigious Gilsland Spa.

Energy consultants NJK Partnership undertook a comprehensive energy survey on behalf of the Carbon Trust to identify where energy savings

could be made, resulting in reduced carbon emissions and energy bills.

The Carbon Trust commissions free site surveys to organisations with annual energy bills of over £50,000. The site surveys are tailored to the specific circumstances and needs of an organisation and typically include discussions with key members of staff and identification of where energy saving methods can be implemented, including the implementation of new equipment or technology.



The view from the hotel overlooks the Cumbrian countryside.

Recommendations also include estimated savings, budget costs, and payback periods for implementing the improvements. The Carbon Trust also advises businesses on eligibility for interest free energy efficiency loans or ECA (Enhanced Capital Allowance) tax relief.

Mark Pattison, Associate Partner at NJK Partnership, said that the main focus for identifying savings was the hotel's plant room. "Due to the hotel's remote location mains gas is unavailable. The plant room was fired by two oil-fired steam boilers that were over 30 years old, inefficient and produced high levels of carbon emissions. Combined with the heat loss generated through the plant room itself and the domestic hot water storage area, huge amounts of oil were being wasted to provide the heating and hot water for the hotel."

The initial recommendation was to look into alternative fuels and replacement boilers. NJK Partnership suggested switching to liquefied petroleum gas (LPG) for heating and water heating as it is a more energy efficient fuel providing all the flexibility of mains gas in areas where mains gas is unavailable. Compared with oil, LPG burns more cleanly, produces fewer carbon emissions and produces less smoke.

Alan Seggie, Calor's Commercial Bulk Specialist, oversaw the installation of the bulk LPG tanks. He explains: "Calor LPG allows the full package of heating, water heating and catering to run from a single source so it made sense to look into converting the whole hotel to LPG. The hotel was already enjoying the benefits of LPG for catering as it provides a gas flame and a responsive and versatile heat, something professional chefs rely on in their kitchen. For heating, it is used to provide fast, more efficient central heating and water heating for leisure applications including swimming pools."

"We were also able to offer the hotel The ThinkTank® telemetry system meaning that the gas level is monitored and Calor is automatically notified when a delivery is due."

Three LPG powered Viceroy GT pressure jet boilers from Ideal Boilers were installed in the plant room along with two Lochinvar LPG water



Calor's unique ThinkTank® telemetry system.

"By introducing the energy efficiency measures, primary fuel use reductions of over £6,350 have been estimated along with the potential to save 116 tonnes of CO₂ per annum."

heaters. NJK's Mark Pattison explains the savings that have been made as result of switching to LPG powered equipment: "We looked into the carbon emissions currently being produced by the oil fired boilers and compared it to the estimated emissions from a similar LPG powered system. We identified the potential to save 116 tonnes of CO₂ per annum."

"By introducing the energy efficiency measures at the hotel, primary fuel use reductions of over £6,350 have been estimated per annum. This is due to the move from oil to LPG powered boilers and increased plant efficiency including improved control functions and better pipe insulation."

"Estimated maintenance costs for the existing steam boilers were running at approximately £25,000 per annum, due to the age of the boiler plant. The new boiler plant has reduced this figure to £5,000 per annum. Finally, the steam boilers suffered water loss during the blowdown procedure, which has now been eliminated, providing further savings."