



OH4 ENERGY SAVING  
CASE STUDY:  
THE GEORGIAN HOUSE  
HOTEL, LONDON  
2025.12.15 V6

The Georgian House Hotel is a collection of historic buildings brought together into a beautiful boutique hotel. Located centrally within London, offering access to all that the city provides. The hotel offers a unique and authentic experience to their guests, and the owners are keen to engage with renewable technology to provide environmental benefits and to reduce the operating cost of the hotel.



## Total Savings: 20%

### The Challenge:

As a historic building that has evolved over time, the property operates on a combination of gas boilers tucked away in basements and broom cupboards to provide heating and hot water facilities. The Client's current annual spend on heating and hot water was in the region of £40,000, representing a significant cost and effect on operational expense. In line with their sustainability and cost reduction targets, they were keen to explore OH4 as a potential solution that didn't require extensive investment in new equipment.

### The Solution:

After a short site visit, it was agreed that OH4 would be installed at the premises with a guarantee that the installation cost would not exceed the year one saving. With no need for any downtime on the heating and hot water system, and access only required in the plant rooms, it was shown that there would be no disruption to hotel and restaurant operations. OH4 was fitted in the five plant rooms on three 30kw boilers, a 100kw boiler and a 60kw boiler, two additional 30kw boilers were fitted in apartments serviced by the hotel but located away from the main site. The installation took place in October 2024, taking a total of three hours.

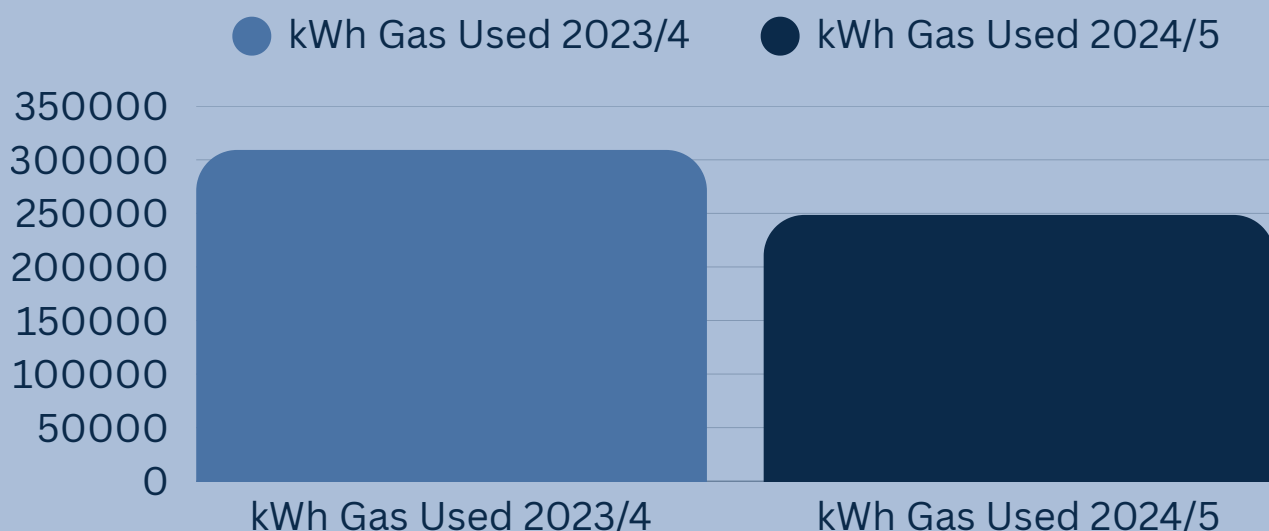
## Energy Savings Guarantee:

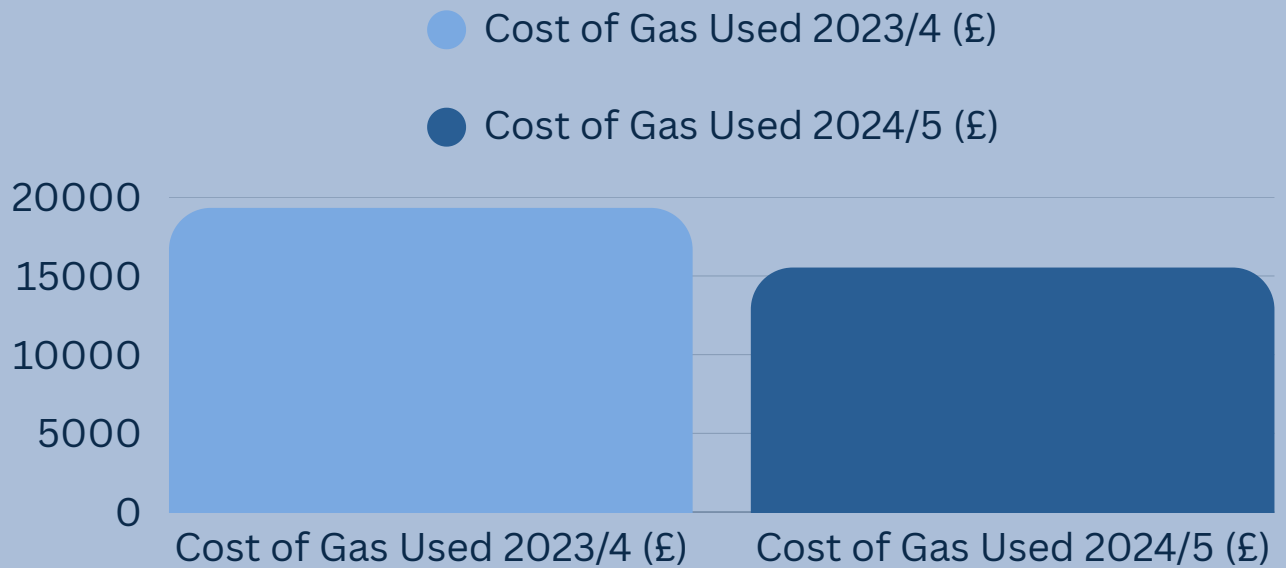
After 12 months of data collection at The Georgian House Hotel, we can see a **20%** reduction in energy usage per degree day. This represents a savings of **£3791.20**. The cost of installation was £5000, representing a **76% ROI** in year one and a **760% ROI** over 10 years with no adjustment for inflation.

## Carbon Saving:

In addition to monetary saving, The Georgian House Hotel has reduced its CO2 emissions from their heating system. The hotel has seen a reduction of **60,659 kWh**, which is equivalent to **11.1 tonnes** of carbon.

Date Range	07/11/23 - 06/11/24	07/11/24 - 06/11/25
KWh Gas Used	309220.6	251072.2
Degree Days	2106.9	2129.9
Adjusted KWh Gas Used	309220.6	248561.5
Cost of Gas Used	£19,326.29	£15,535.09





## From Peter Stevens - General Manager of The Georgian House Hotel:

"OH4 consulted with us to see how their energy saving solution could save the Georgian House Hotel money on its energy bills whilst also reducing our carbon footprint. The installation process was as seamless as promised and the on-going support and data management have been above and beyond what was expected.

Initially OH4 suggested they could save the Hotel between 15 - 20% on our energy bills and based on the latest readings our savings have been 20%.

If you are looking to reduce the cost of energy in your premises whilst also reduce your carbon footprint I would strongly suggest getting in touch with Steve and the OH4 team"