

Case Studies

Hilton Hotels
Hilton Birmingham Metropole



Hilton Hotels Energy Plan

Hilton Hotels have achieved an 18 month pay back on their energy saving investment by converting to Intelli-Hood.

Hilton is the world's most recognised name in the lodging industry with 98% brand awareness worldwide. Hilton owns, manages and franchises 2,700 hotels in more than 80 countries.

Hilton Hotels Corporation considers responsible environmental activity good for both business and the community. They were the first company to be awarded the EnergyStar® award from the Environmental Protection Agency and the Department of Energy. They continually develop practices which conserve energy and water, as well as improve methods of recycling. They produce guidelines for all of their hotels and their goal is to 'Reduce-Reuse-Recycle' wherever possible.

Hilton is actively evaluating and implementing additional green technologies in their facilities and one of their new initiatives is to install the **Intelli-Hood Energy Control system**.

They have installed the energy saving system into one of their flagship hotels, The Hilton Birmingham Metropole giving them an excellent saving and a pay back of just 1.09 years. The daily saving for both energy and money are vast. Previously, when the extract fan was running at full speed for 24 hours, they would expect to use 220.67kWh/day, since the installation of **Intelli-Hood** consumption

has been reduced to 105.59kWh/day. With the added benefit of savings from conditioned air losses this gave a total annual saving of £11400 or 403569kWh.

The extract and supply air are now automatically controlled by **Intelli-Hood** as conditions in the kitchen demand. The system continuously monitors cooking activity in the kitchen and adjusts the speed of the extract and supply fan to match these conditions. This is done whilst maintaining the comfort level for the kitchen staff.

Converting to **Intelli-Hood** was not only a good business move by Hilton with such a short pay back but also a massive energy saving investment too. They have now instigated further installations into other hotels across the UK portfolio over the next 2 years.

Contact Us...

Food Industry Technical Ltd
40 Ivanhoe Road
Finchampstead
Berkshire RG40 4QQ

Tel: +44 (0) 118 973 9310
Fax: +44 (0) 118 973 9311
Web: www.foodindustrytechnical.com
Email: enquiries@foodindustrytechnical.com



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“The Intelli-Hood installation went extremely well and since then we have been making savings without impact on the kitchen operations”

Andrew Staley, Property Manager UK

Energy savings for Hilton Birmingham Metropole

As clearly shown in the graph below, the installation of the **Intelli-Hood** system reduced the fan energy consumption dramatically.

This information was collected via a data logger over a period of two weeks. One week was taken before **Intelli-Hood** was installed (light blue) and the second week was taken after (dark blue). You can clearly see the reduction in wasted energy when the kitchen is not in use. It is this significant reduction that gives Hilton Birmingham Metropole their payback of just 1.09 years.

Due to its success Hilton have already rolled out **Intelli-Hood** to some of their most prestigious hotels including The London Hilton on Park Lane.

Energy Saving Objectives

Hilton Hotel are looking at an average pay back of just 18 months from all of their **Intelli-Hood** equipped kitchens.

3 day comparison graph for Hilton Birmingham Metropole with percentage of energy saved.

