



Overnight Stays:



The emissions from hotels are based on a survey in Switzerland. It was the most detailed study available, and comparing with international data showed that the values are very similar.

Table 8

| Hotel Star Rating | Average Energy Consumption | Average Co ₂ Emissions per |
|-------------------|----------------------------|---------------------------------------|
| Zero – Two Star | 38 kWh | 11.6 kg |
| Three Star | 47 kWh | 14.3 kg |
| Four Star | 61 kWh | 18.5 kg |
| Five Star | 109 kWh | 33.1 kg |

This is calculated from the average energy consumption of hotels (according to class) and the average mix of energy sources. The differences in energy source mix is not taken into account as it was absent from the study. The energy supply for 0-3 star hotels was only available per turnover, so we used an estimate of the average price of 0-3 star hotels from a sample 25 hotels in each category located in the same region to calculate the per guest values.

Table 9

| Average energy consumption mix | Average Energy Consumption |
|--------------------------------|----------------------------|
| Electricity | 36.8% |
| Fuel Oil | 49.8 % |
| Gas | 9.8% |
| Renewables | 3.6% |

Sources

<http://www.hotelpower.ch>

DEFRA, Green house gas conversion factors, 2009, <http://www.defra.gov.uk>

Additionally we had to estimate the average price of 0-3 star hotels from a sample 25 hotels in each category located in the same region as energy intensity was given in relation to turnover, not guests for these categories.