

# Application Note

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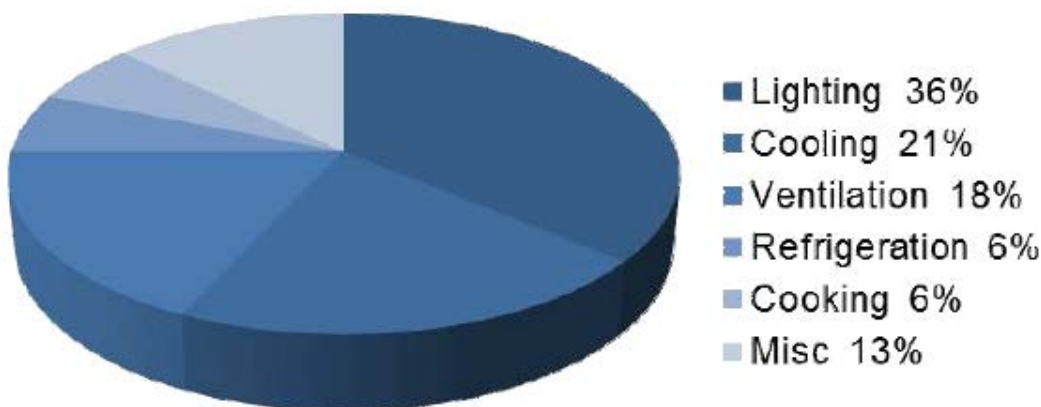
**How can hoteliers reduce their cost of energy ?**

### The Problem

Within the hospitality sector, energy costs are up to 6% to 9% of their revenue, but by simply managing the data, many are not able to stick to the energy cost thumb rule. Reducing the energy costs directly increase profit without the need to increase sales. Money saved on energy goes straight to the bottom line which makes businesses more competitive and with rising energy prices, this is more important than ever. In addition to financial benefits, there are of course, social and environmental advantages of reducing energy consumption, such as minimising climate change. The efficiency benefits once derived are perpetual in nature. Being energy efficient can enhance any business’s reputation and help to attract more customers adding to its cores values.

In hotels the main energy consuming systems are:

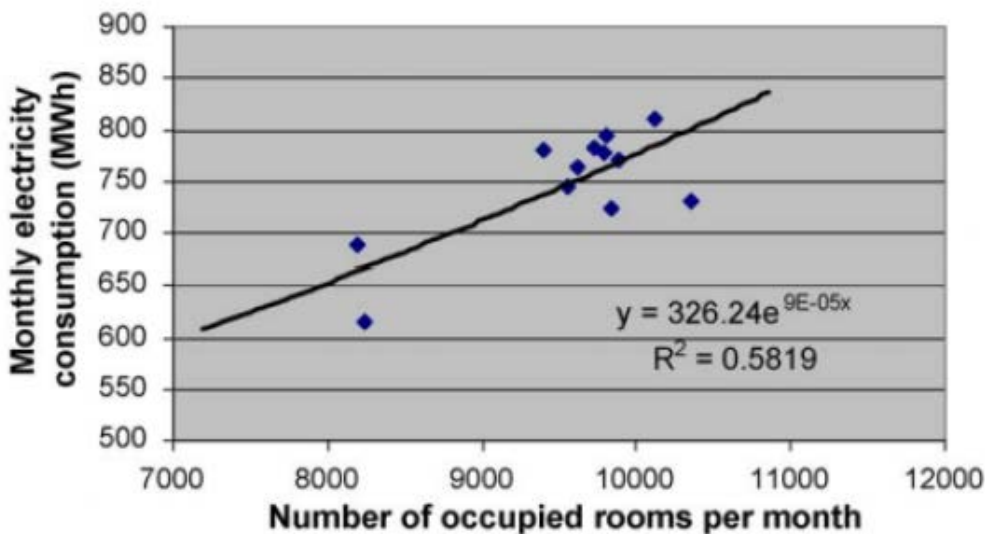
- Lighting
- Cooling
- Ventilation
- Refrigeration
- Cooking
- Miscellaneous



**The Solution**

Energy cost is the second highest cost for the hospitality industry. Most of this cost is wasted keeping guest room A/C at full speed, even though the guests are not in the room for most of the day. Without a doubt, the hotel’s energy consumption will be affected by occupancy rate.

Yearly average occupancy rate in the surveyed hotels ranges from 66% to 88%, with an average of 78%. Electricity consumption is well correlated with the occupancy, but it also suggests that hotel managers should improve energy management when occupancy rate is high as well as low.



Monthly electricity consumption vs. number of occupied rooms.

An intelligent Energy Management Solution will assist in increasing the efficiency of the system and therefore dramatically reduce the energy bill and improve the bottom line.

An energy management system does a thorough monitoring of electric energy consumption, based on an analysis of the amount and type of energy used in each system.



Data collected in an EMS will lead to the development of a set of measures to reduce energy consumption. Thus, the EMS will provide specific information and identify real possibilities of energy savings. It consists of a critical examination of how energy is used based on accurate records for fuel consumption and associated costs.

## The Benefits

### 1. Hotel Benefits

- Reduced energy cost
- More reliable power supply
- Improved power supplies quality
- Insights on correlation between occupancy & energy consumption

### 2. National Benefits

- Fewer electricity shortages
- Primary fuel savings
- Reduced or deferred capital expenditures for power plant construction
- Enhanced efficiency of electric utility service
- Improving the environmental conditions

## Featured Products



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