

£1M tonnes CO<sub>2</sub> to £761Tonnes

# Crown Spa Hotel

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# Sustainability what is it?

- Text Book definition seems to be indicating a level of activity that can be maintained over the long term because it results in a net benefit for the social, economic, natural and cultural environments of the area in which it takes place.
- We are looking to the Natural environment tonight.

- 25% by 2010 on 2005 levels!
- Our main environmental vision is to reduce KG's CO<sub>2</sub> output from Water, Light, Heat and Power by 25% by 2010 from our 2005 levels.
- Our other main aim is to continually assess, revise, reappraise to reduce the organisations environmental impact by application of the 3 R's below and lastly Carbon Offset.

# Do the sums

- Where are you now where do you need to be, aim high!
- In previous years our values for CO<sub>2</sub> produced were calculated for 2005 and onward!
- 2005 1,005,000 KG so we were aiming for a **25% reduction around 753,000KG**
- Our average CO<sub>2</sub> per occupied room night was **45.7 KG we need to be 34.75KG**
- We decided to reduce Gas, Power and water usage and monitor the CO<sub>2</sub> produced.

Do the stuff which has best payback first, like:

- Get the buy in! (we used effergy meters!)
- Staff Training, get them to switch it off at the end of the day, reduce what comes into your business and what goes out! Reduce wastage and deliveries.
- Do the costings! Energy efficient bulbs and equipment often cost more but can have a fast payback. So set some rules up!
  - Our rule was within 3 years on anything over £5K and 2 years on anything over £1K and 1 year or less for anything under £1K. **Anything over 3 years forget it!**

# Monitor, monitor, monitor!

- Track your meter readings, effergy type monitors can be used on sub boxes to see how much goes through a fuse board, water meters are cheap to fit as are gas meters.
- Feedback results to your team frequently.
- Celebrate good results and behaviour.

## Ok is it working? How much are you saving?

- Often difficult to workout as prices fluctuate, so track the KW's and have a baseline year for the power cost. *So if we track our usage and used 2009 prices as a baseline price we have saved £261K since 2005!*
- ***Suddenly it all made sense!***
- ***What did it cost? £0 as all things have paid back!***

## Can you now justify a bigger project?

- No, then that is fine keep looking for more simple cost effective solutions!
- Yes, go back to step one and revise your vision and rules then proceed through the steps again. We did our revised aim is now **a further aim of a 50% reduction of CO<sub>2</sub> from Power, light and Heat from our 2005 levels by 2015. (added in late 2009)**