

## BaxterStorey EMS - Objectives and Targets Update

### Objective 1

To reduce the consumption of electricity at the Waterfront per full time equivalent (FTE)

#### **Target**

Reduce by 5% by December 2011 based on annual consumption pro rata per full time equivalent (FTE)

#### **Programme**

- Staff awareness campaign, labelling, training
- PIR lighting installed
- Printers on duplex reducing number of copies made
- More efficient energy saving copier and franking machine
- Timers on water boiler and coffee machine
- All PCs switched off at night
- New low energy servers

#### **Progress**

In the full twelve months of 2011 we consumed 283,978 kWh of electricity at the Waterfront representing an average of 5.19 kWh per FTE per day (assuming 252 office working days).

This shows a like for like reduction 0.31 kWh per person per day or 5.6%.

#### **Conclusion**

Since 2006 energy consumption has increased at the Waterfront by 32% whilst the population on the head office payroll has increased by 138%. Through close monitoring, awareness, PIRs, timer switches, improved IT infrastructure and basic good housekeeping we. We are delighted to have achieved this in our third full year of running the EMS. The target for 2012 is to reduce by a further 5% on our 2011 figure.

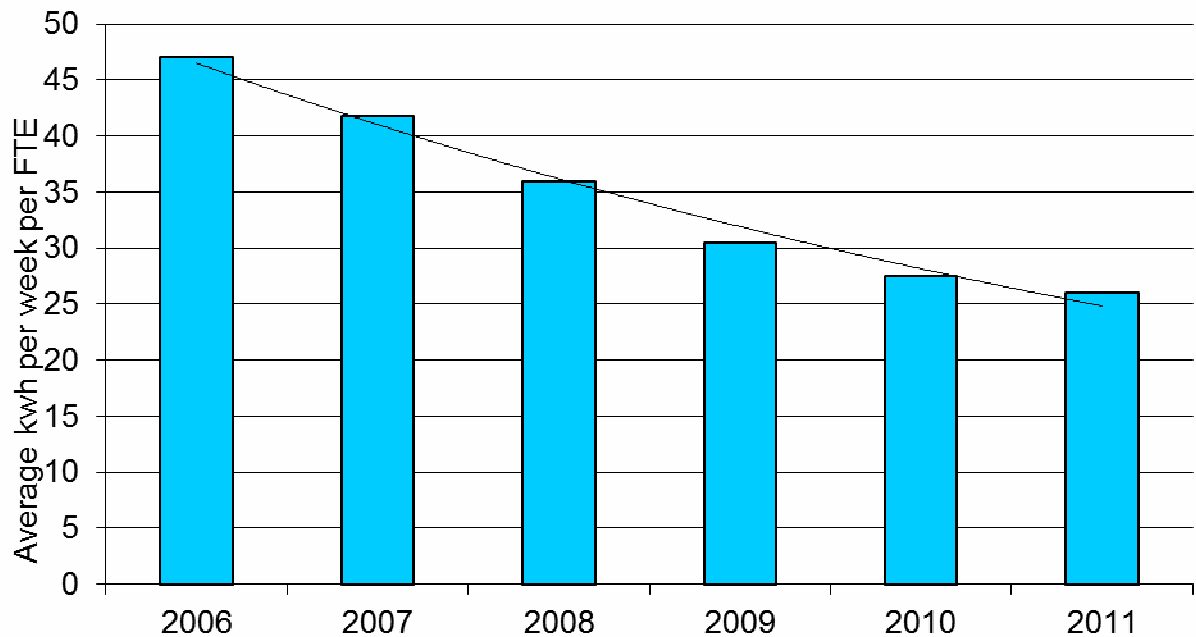
#### **Notes**

These figures include all energy used at the Waterfront by BaxterStorey;

Heating, cooling, hot water, computers, servers, copiers, printers, lights, phone chargers, water boilers, coffee machines etc

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## Waterfront Electricity Year on Year Per FTE



### Objective 2

To reduce the level of carbon emissions produced by company vehicles

### Target

Reduce CO2 emissions by 10% by December 2011 based on annual consumption pro rata to the number of BaxterStorey locations

### Programme

- Staff awareness campaign, efficient driving
- Revised policy to encourage lower emissions vehicles (since the policy reviewed in July 2007 average emissions have reduced from 191g/km to 142 g/km over 22% reduction), from January 2010 the threshold for emissions bonus reduced from 150 g/km to 140 g/km) (The threshold started in 2007 at 170g/km
- Greater emphasis on public transport use
- Tele conferencing

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- Improved 'patch planning' there has been a greater focus on ensuring that operations teams have more local and compact geographic areas to manage. This has significantly reduced the number of miles driven per operations manager

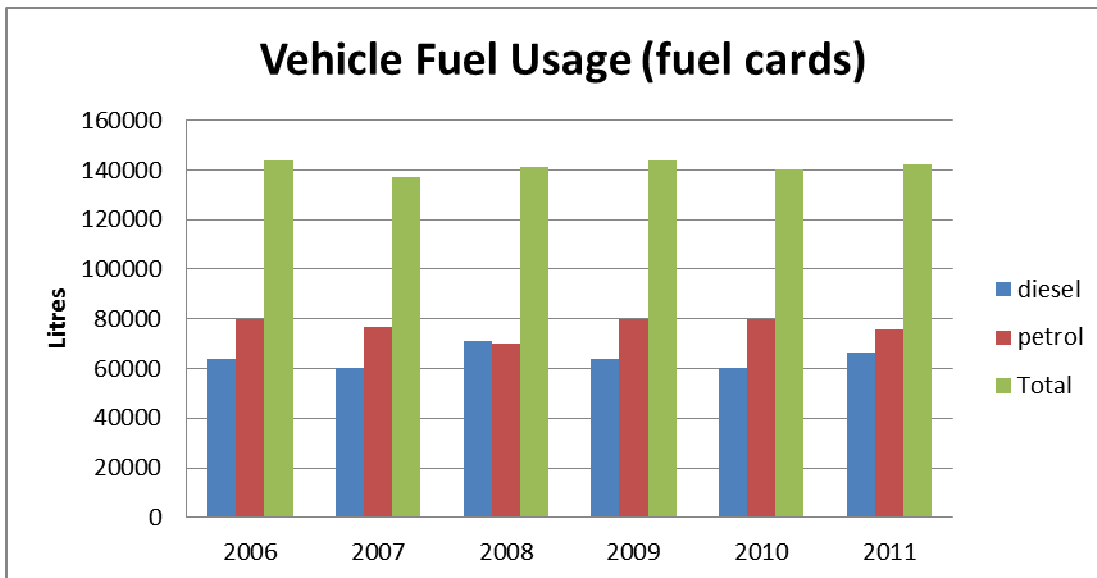
### Progress

In the full twelve months of 2011 a total of 66,564 litres of diesel and 75,743 litres of petrol were consumed by BaxterStorey vehicles, jointly this consumption produced 353,934 KgCO<sub>2</sub>e or 353.9 tonnes.

This shows an increase of 7,169 KgCO<sub>2</sub>e (7.1 tonnes) or 2.05% increase. In the same period the total number of BaxterStorey locations increased by 9%. Taking into account the increase in locations this equates to a 6.2% reduction in emissions pro rata.

### Conclusion

This is disappointing however when considering the growth of the company year on year this is a good achievement. The main reasons for this are the reduced CO<sub>2</sub> target on vehicle emissions in order to qualify for a bonus (this is made easier for drivers as technology improves the choices though lower emissions and great efficiency) It is interesting to note that petrol vehicles are catching diesels up in terms of efficiency, bearing in mind petrol is a 'cleaner' local fuel and there is no 3% extra tax levy on the choice to move to petrol from diesel is starting to reverse. The target for 2012 is to reduce by a further 10% on our 2011 figure.



### Notes

Petrol produces emissions of 2.3 Kg of CO<sub>2</sub>e per litre of fuel burned

Diesel produces emissions of 2.7Kg of CO<sub>2</sub>e per litre of fuel burned

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Although diesel produces more CO<sub>2</sub> per litre plus a greater level of airborne particulates, diesel engines are hugely (still) more efficient than petrol and therefore the g/km of CO<sub>2</sub>e are greatly reduced and therefore lower than an equivalent engine sized petrol car.

### **Objective 3**

Reduce amount of CO<sub>2</sub> produced as a result of paper usage by BaxterStorey at the Waterfront for printing and copying

### **Target**

Reduce the CO<sub>2</sub> emissions by 10% by December 2011 based on annual consumption

### **Programme**

- Staff awareness campaign on duplex copying and printing and reading from screen
- Default setting changed to duplex on all printers
- Change to 100% post consumer waste paper for all copying and printing
- EDI
- Email 'Mime cast' archive facility enhancement

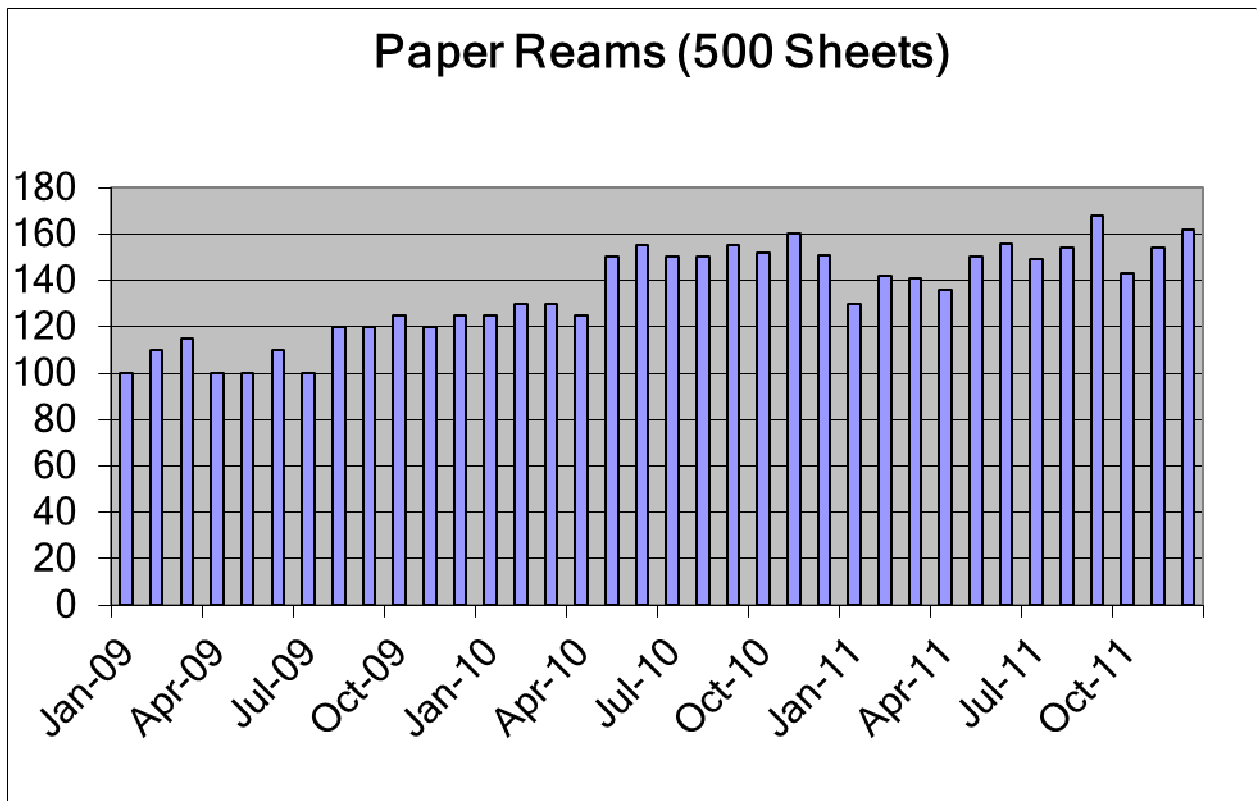
### **Progress**

In June 2006 BaxterStorey changed to 100% post consumer waste recycled paper and duplex printing became the default on most printers.

Like for like comparison shows a saving of 4,034 Kg CO<sub>2</sub> (4 tonne) against an equivalent volume of virgin paper.

In 2011 the average FTE is 217 with total reams of 1,785 this shows that in 2011 each member of the team at the waterfront used 8.22 reams of paper in the year or 16.32 sheets per day

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### Conclusion

The result is disappointing as this shows a very slight increase per person particularly in the step change in the use of IT in terms of on line accounting and the use of EDI (electronic invoicing) which has meant that far less photo copying is undertaken.

There has also been a companywide drive to encourage electronic storage of data with improved and enhanced file server size and email archiving.

### Notes

CO2 produced as a result of the manufacture of virgin paper equates to 9.5kg of CO2 per ream (one ream = 500 sheets)

CO2 produced as a result of the manufacture of recycled paper (100% post consumer waste) equates to 7.25kg per ream

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### **Objective 4**

Increase volume of mixed recyclables at Waterfront and subsequent reduction in general waste produced per FTE

#### **Target**

10% increase in mixed recyclables in KG by December 2011 per FTE

#### **Programme**

- Staff awareness campaign on recycling and recycling process
- Number of general waste bins reduced to four small bins and mixed recycling bins increased to eleven

#### **Progress**

In the full twelve months of 2011 a total of 1,865 kg of general waste and 9,710 kg of mixed recyclable material were produced by BaxterStorey at the Waterfront. This equates to 0.21kg of total waste produced per FTE per day.

This shows an increase in general waste of just 55 kg and an increase in recycled material of 60 kg

In total the amount of waste produced by BaxterStorey at the Waterfront has increased by just 115 kg. This equates to a reduction in total waste of 0.02kg per person per day or 8.7%.

#### **Conclusion**

This is good result.

As the population in the Waterfront as a whole has grown over the last year the cafe in the atrium has become extremely busy resulting in more staff bringing in their own lunch from home, this has resulted in less packaging being brought into the BaxterStorey area and hence less waste.

We have almost achieved our target of 10% increase and our target for 2012 is a further 5% improvement.

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## General waste Vs. Mixed Recyclables

