Investment Information

Balfour Beatty Civil Engineering

NetworkRail

What's happening?

Lessons learned at *Blackfriars*

Overview:

Under the Thameslink Programme significant improvements are being made at Blackfriars to both the Thameslink and London Underground Stations. These are due to be complete by spring 2012. To help meet this deadline the project is currently running 24 hours a day 7 days a week; therefore using large amounts of energy.

One of the areas highlighted by the Balfour Beatty environment teams, as a way of reducing some of our energy usage, was office equipment. On the 17th of April, the team undertook a survey to establish how many pieces of computing equipment are routinely left on when not in use and marked them.

Results:

- 521 computers surveyed
- 261 pieces of computing equipment left on

Floor	Percentage
Mezzanine - Facilities	54%
Floor 2 – South	60%
Floor 2 – Central	47%
Floor 3 – North	68%
Floor 3 – South	43%
Floor 3 – Central	20%
Floor 4 – North	48%
Floor 4 – South	20%
Floor 4 – Central	55%
Floor 5 – North	71%
Floor 5 – South	69%
Floor 5 - Central	53%

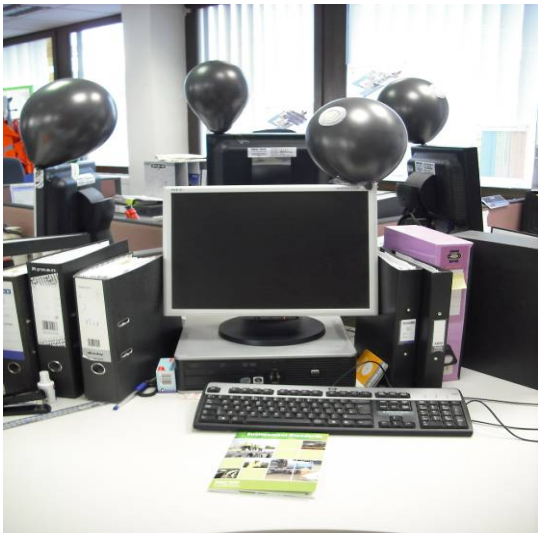
Percentage of equipment left either on or on standby per floor

Lessons Learned

- **£1206** cost of 261 monitors left on for a year
- **4.3** tonnes of CO_2 emitted by Puddle Dock monitors being left on standby for one year
- **8039 kWh** energy used in one year from monitors being on standby in Puddle Dock

Meeting our objectives & targets:

The project objectives and targets below will bebeing met by encouraging staff at the Puddle Dock offices to turn off their computing equipment when not in use:
Network Rail's Sustainable Design and Construction Strategy - *Restrict Carbon Emissions*
Balfour Beatty Civil Engineering's Blackfriars Sustainable Action Plan - Reduce CO2 emissions by 5% year on year against NR period 1-13 2009 data normalised by period spend baseline data
CEEQUAL – Evidence of contractor considering energy usage during construction



Note: A second survey will be conducted to see how calculate how many people have become aware of their energy wastage

Note: This time the balloon is not a prize but a marker identifying a piece of equipment left on