



Hainault Business Park Limited

## WIN a £25 Oyster Card by Entering Our Monthly Green Quiz

If you work on Hainault Business Park you could win a **£25 oyster card** (funded by London Borough Redbridge) by entering this months Water Quiz.

Oyster cards are the cheapest way to pay for single or multiple journeys on Tubes, buses, DLR and trams in London. Oyster cards are reusable - just top them up with cash or renew your Travelcard/Bus Pass when needed.

***Read the following to find the answers to the quiz.***

## Saving Water

**In the UK we use on average 150 litres per person per day  
in our homes and gardens.**

The simple availability of water 24 hours a day, 7 days a week, is another measure of our wealth. This is ten times the international standard for emergency water provision, to refugee camps for example, to cover all drinking, cooking, clothes, washing and hygiene needs.

### Water for Manufacturing

Modern developed nations require huge quantities of water for industry. As well as being incorporated into many products, water is used as a coolant, a solvent, a transport agent and a source of energy.

- 14% of our water is used for manufacturing.
- A car coming off the production line uses at least 450,000 litres of water (including 80,000 to produce the tonne of steel from which the car is made, and 40,000 for the fabrication process).
- Many thousands more litres of water are involved in the manufacture of its glass, plastic and fabric components.
- Manufacturing a desktop computer requires 1,500 litres of water,
- A Sunday newspaper 70 litres
- A Tonne of paper 30,000 litres

### **Natural and Built assets**

Our water assets, with an estimated replacement value of over £200 billion, have been built up from Roman times. The UK has over 400,000 freshwater ponds and lakes, covering 190,000 hectares, and 70,000km of rivers. Drinking water comes from 1,584 boreholes, 666 reservoirs and 602 direct abstractions. It is treated at 2,500 water treatment works and delivered to us through 325,000 km of water main. Wastewater is taken from our homes in 300,000km of sewers to 9,000 wastewater treatment works before being returned safely to the environment.

*Source: Water UK*

## **Cost Savings**

**All businesses use water and return wastewater to the environment, which of course costs money.**

Businesses can attain cost savings on water by:

- Advances in water efficiency,
- Leakage detection,
- Recycling
- Disposal of waste by-products

## **Water for Food**

The food industry uses water for irrigation of crops and market gardens, food washing, processing and packaging. Water is an important constituent of food and drink products, and volume and quality requirements can be high. For example, 6 litres of water is required to produce a pint of beer and 20 litres to manufacture an aluminium can to hold the beer. It takes 150 litres of water to make a cotton shirt!!!!

## **Water for Energy**

**The largest user of water in the UK (accounting for 45% of resources used) is the energy industry.**

To produce one kilowatt-hour of electricity requires 140 litres of water in fossil fuel plants and 205 litres in nuclear power plants. Some of this water is converted to steam, to drive the generator producing the electricity. In thermal power generation, however, most is used for condenser cooling. Water is also a vital source of renewable energy; there are currently around 200 hydroelectric schemes in the UK, generating 2% of our electricity, compared with a worldwide figure of 20%.

For more information on Water please log on to: <http://www.water.org.uk>

Now go to the Water Quiz and try to win an Oyster Card. Only one entry per employee, the closing date for this month's quiz is December 31<sup>st</sup>. Winners will be informed directly by 2<sup>nd</sup> week of January 2009 and posted on the employees Green Benefit Page

**Click to go to the Saving Water Quiz**

<http://www.groundwork-surveys.org.uk/savingwater>

If you work on Hainault business park and would like more information on Water Saving please contact Nimish Shah on 020 8985 1755 or email [EBS@groundworkeastlondon.org](mailto:EBS@groundworkeastlondon.org) quoting EBS: Saving Water.