

Real Time Display innovations at the Home Office

Not content with displaying data for just their HQ building, John Cole, Head of Sustainability at the Home Office, has expanded the RTD project to provide transparency in energy consumption across a further 10 key Home Office sites, using data already being captured by the official meter data collector, thus minimising costs.



Background

In May 2010 all 18 Whitehall Central Government HQs were instructed to install real-time, online energy displays (RTDs as they have become known). The Home Office HQ, 2 Marsham Street, were the first to go live with an RTD, just ahead of the Department of Energy & Climate Change.

Early success

In October 2010 a competition was organised by the Cabinet Office to see which department could reduce their consumption by the most, September 2010 versus October 2010. The departments responded and made significant reductions in consumption. 2 Marsham Street finished 3rd place (out of 18 buildings) with a very substantial 8.9% drop in consumption.

Show me more for less

Not content with displaying data for just their HQ building, John Cole, Head of Sustainability, has expanded the RTD to provide transparency in energy consumption across a further 10 key Home Office sites, using data already being captured by the official meter data collector. Driving the RTD with Day+1 data whilst not as immediate as near real-time data, implementation costs are lower and it is equally as useful when comparing consumption on daily, weekly or monthly basis.

Welcome to the Home Office live data page for energy and water consumption

See how much energy and water is being used in eleven Home Office buildings.

[Back to 'Home Office energy use' page](#)

What you see is what we're using

We gather data every 30 minutes from our main utility meters at 2 Marsham Street and daily for ten other buildings. This allows you to see how much electricity, gas and water we are using today, yesterday, this week, this month, this quarter and this year

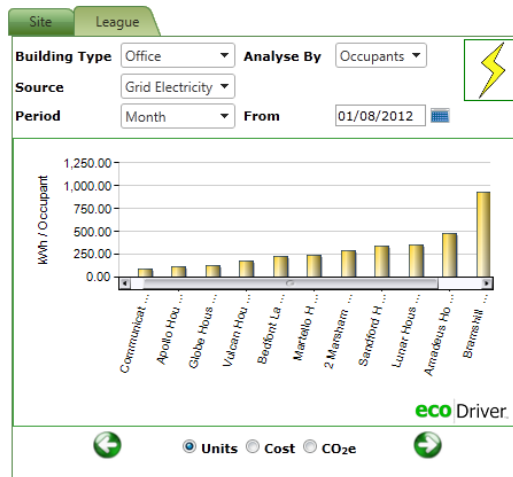
Units, cost and CO₂e

If you select cost or CO₂e you can see the cost of consumption or the carbon dioxide emissions associated with our energy use.

More information on the Home Office's [Carbon Management Plan](#)

Data Capture

Data Capture commenced on 9th June 2010 at our 2 Marsham Street with six other buildings going online



[See Other Realtime Displays](#)

Fuel	CO ₂ kWh-1(kg)	Price per Unit (£)
Electricity (kWh)	0.545	0.06
Gas (kWh)	0.184	0.04
Water (m ³)	0.340	1.41

The Home Office
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Data and Transparency

Visit the [public data page](#) to access and download the data collected on half hourly basis. This data is organized by month and year available in CSV file format; CSV is an open standard that

But who is the best?

Keen to extract more value from the RTD system John Cole asked the developers of eco|Driver to produce ideas for an inter-site league chart which could be used to compare the performance of sites. The Site League chart went live in October 2011 and it is now possible to compare the energy consumption of all the sites with the data normalised by the number of building occupants.

But what about CO₂e from waste disposal

Not content with laying bare the energy consumption of 11 Home Office buildings, for the whole world to see (and question), 2 Marsham Street now also display their waste generation and the associated CO₂e emissions from the disposal of this waste. Where to next? Can we do better with a league chart of energy consumption, floor by floor? Watch this space!

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