

## Case Study

# Welsh Water

- Customer: Welsh Water
- No of sites: 41
- No of units installed: 9600+
- Electricity Bills: Reduced by £70,000/year
- CO<sub>2</sub> Savings: 400+ tonnes

**Welsh Water saves over 400 tonnes of CO<sub>2</sub> through energy-efficient lighting upgrade**



### PROJECT OVERVIEW

**Welsh Water has reduced its electricity bills by £70,000/year, making a significant dent in its carbon footprint.**

**This has been achieved by replacing old-style T8 fluorescent lamps with energy-efficient equivalents using patented retrofit converter, Save It Easy®.**

### BACKGROUND

Welsh Water provides water supply and sewerage services to over three million people. The company is a major industrial operation in charge of 81 reservoirs, 930 water and waste water treatment works as well as many pumping stations, offices and workshops.

The company has also pledged to reduce its greenhouse gas emissions by 50% over the next 25 years – a big goal and one that requires eliminating all sources of energy waste.

### THE CHALLENGE

For Welsh Water, lighting was an overlooked energy drain, with its old-style T8 fluorescent lamps using an excessive amount of electricity.

The obvious solution was to upgrade to new, energy-efficient T5 lamps, but the process for upgrading was not as straightforward. Due to technical and physical differences between the old T8 lamps and the new T5 lamps, an ordinary upgrade would have involved ripping out and replacing all the light fittings making the change uneconomic.

### THE SOLUTION

Using Energys Group's patented plug-in converter, 'Save It Easy®', 9623 energy efficient T5 lamps could be slotted into the existing light fittings across 41 sites. This meant the lighting upgrade could be carried out without needlessly (and wastefully) tearing out all the existing fittings.

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### RESULTS AND OUTCOME

Welsh Water is set to slash its company-wide carbon footprint by 442 tonnes of carbon dioxide as a result of the Save It Easy project.

The company will reduce its annual lighting energy consumption by 823,954 kWh, cutting its electricity bills by £70,000.

Required by law to reduce its carbon emissions under the Carbon Reduction Commitment (CRC), Welsh Water will be able to secure a better position on the CRC's league table and reduce the number of carbon allowances it needs to purchase.



### CLIENT TESTIMONIAL

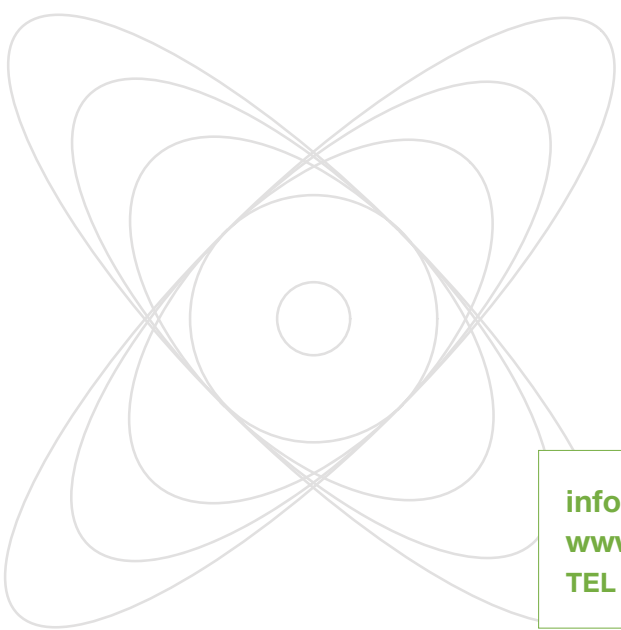
“The Save It Easy installation was a big job, involving dozens of sites – many of them industrial treatment plants. It was reassuring that Energys Group’s engineers took the health and safety aspects of our company very seriously. As a result, the project was non-disruptive and well-organised. We were able to accomplish our goal to reduce our carbon footprint, without compromising the safe running of the company.”

**Adam Fairman**

Energy Innovation and Programme Manager at Welsh Water

**Our work at Welsh Water has been featured in the press. Click on the links below to find out more:**

-  [edie.net](http://edie.net)
-  [A1 Lighting](#)
-  [Energy Management](#)
-  [Plant Engineer](#)
-  [Process Engineering / \[www.theengineer.co.uk\]\(http://www.theengineer.co.uk\)](#)
-  [waterbriefing.org](http://waterbriefing.org)
-  [web4water.com](http://web4water.com)



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