

Research and analysis: Study of over-consuming household cold appliances

Cold appliances account for approximately 10.5 TWh of electricity consumption in England.

Previous studies by government indicated that a significant number of cold appliances consume much more electricity than expected, however, the sample was small.

The study was undertaken to investigate the proportion of cold appliances that over-consume. It estimates the amount of extra electricity consumed and the impact on bills, in order to help consumers understand how they can minimise costs. The study also examines the causes of over-consumption and makes design and operational recommendations for minimising this. Finally, the study also includes analysis of the electricity consumption of a small sample of appliances sent for recycling.

This study investigates the reasons and comprises 4 reports:

1. Study of over-consuming household appliances – this monitors around 1000 domestic cold appliances
2. Supplementary report 1: Literature review
3. Supplementary report 2: Energy consumption of cold appliances sent for recycling – an assessment of the electricity consumption of 100 appliances sent for recycling
4. Supplementary report 3: Inspection of 100 appliances due for recycling – an assessment of the potential for reconditioning appliances sent for recycling.

Data monitored for the study will be made available on the [UK Data Archive](#).

Policy paper: Flood and Water Management Act 2010: post-legislative scrutiny

This memorandum provides a preliminary assessment of the Flood and Water Management Act 2010. It has been prepared by Defra for submission to the Environment, Food and Rural Affairs Committee.

Annex D to the memorandum contains a local flood risk management action plan.

Independent report: Natural Capital Committee's fourth state of natural capital report

This report sets out the work done by the committee since March 2016. It also makes a series of recommendations to government on developing the 25 year environment plan.

The Natural Capital Committee is an independent advisory body to government. You can read more information about the work of the [Natural Capital Committee](#).

Press release: Rogue recycler found guilty for mattress mountain

The operator of a waste mattress and bed recycling site in Smarden has been found guilty for failing to comply with relevant waste exemptions as well as failing to comply with an Enforcement Notice issued by the Environment Agency. Sentencing is due on 3 February 2017.

The charges were brought against Mr Lewis Bertram, trading as Eco Matters, Units Y & E2 Smarden Business Estate, Smarden, Ashford, Kent after an Environment Agency investigation discovered that he was operating outside of the terms of registered waste exemptions, posing a pollution and fire risk to the surrounding environment, neighbouring units and residential properties. Mr Bertram pleaded not guilty to the charges presented at Magistrates court early in 2016 and elected for the case to be heard at Crown Court. The jury returned guilty pleas to all three charges brought before the court.

Mr Bertram had been operating a mattress recycling business at the two units, which lie within close proximity to several residential properties, since July 2013. Environment Agency visits in December 2014 and January 2015 found that the activities were not compliant with the terms of the registered waste exemptions. Environment officers informed Mr Bertram that he was committing an offence by operating the site outside of the terms of these waste exemptions and gave Mr Bertram the opportunity to comply with the specific conditions and relevant objectives in the first instance.

Further visits to monitor the situation on site in March and early April 2015

revealed that activities on site were continuing to be conducted outside of the terms of the exemptions and the volume of waste stored on site continued to increase. The Environment Agency de-registered the waste exemptions and Enforcement Notices were issued on Mr Bertram in March 2015 instructing that all waste be removed from Unit E2 and the volume of waste at Unit Y to be reduced to the 1,000 tonne limit of textiles permitted for storage under the waste exemptions by 29 May 2015.

Mr Bertram maintained a not guilty plea in relation to the non-compliance with these two notices to clear the waste for which the charges will be referred back to a magistrate's court.

No further waste had been brought to site by Mr Bertram since the de-registration of the exemptions in May 2015. However, further visits to the site conducted by environment officers in June 2015 revealed that Mr Bertram had not complied with the Enforcement Notices requesting for the removal of waste from site.

The Environment Agency worked closely with Kent Fire and Rescue Service throughout 2015 and 2016 to monitor the fire risk posed by the site and to ensure that the situation on site did not get any worse.

The site at Units Y and E2 are still full of waste mattresses, divan bed bases and their associated parts which we will continue to deal with to ensure that they are removed by those responsible.

Alan Cansdale, Environment Manager from the Environment Agency said:

His actions showed blatant disregard for local residents and businesses putting the environment and local amenity at risk. Mr Bertram ignored numerous opportunities given to him by our officers to bring the operations back into compliance.

Waste exemptions are designed for activities deemed to be of low risk to the environment and have strict conditions that must be complied with.

While we will work closely with businesses to help them comply with such legislation, in cases where individuals consistently operate illegally and in this case outside the terms of an exemption, we have no hesitation in prosecuting them to make sure that waste crime doesn't pay.

There are photos available on our [flickr account](#)

Press release: Waste site operation to protect workers and the environment

The Environment Agency has joined forces with the Health & Safety Executive (HSE) in the North East to carry out combined visits to check waste sites aren't flouting important legislation.

This ongoing multi-agency approach aims to improve working practices on regulated sites.

During the last series of visits at the back end of 2016, staff attended 13 sites across the region, with more visits proposed for the early part of the New Year.

To date the joint initiative has focused on sites that recycle, process or store waste metal, such as scrap vehicles and general waste metal. Operators use a variety of processes and equipment to strip, cut and burn waste to extract the key metal and components, work which has the potential to expose workers to risks to health and safety.

The aim of these visits is two-fold; to make sure the sites are operating within the conditions of their Environmental Permit to protect the environment and community, while ensuring the health and safety of workers isn't put at risk.

The Environment Agency's Ruth Tyson, Waste Team Leader, said:

We manage our permitted sites every single day to ensure they are operating within the law, to protect the environment and to minimise impact on the local community.

Health and safety is paramount when our officers are visiting sites and officers regularly contact HSE if they feel a site is unsafe.

These joint operations are a really good opportunity to share knowledge with other agencies and mean we look at the site from different perspectives, ensuring any issues impacting on the environment and community can be looked at together with site safety.

Inspector Victoria Wise from the Health and Safety Executive added:

An average of 7 people are killed each year in the waste industry, this includes members of the public. The main causes of death are people being run over or struck by a moving vehicle or something unstable collapsing on them.

A high number of workers in this industry are also exposed to processes that cause irreversible ill health conditions. During the last joint initiative HSE found 8 sites visited to be in significant contravention of health and safety law with 7 Enforcement Notices served.

Joint operations such as this mean we can work alongside the Environment Agency to make sure those responsible for the sites are not exposing workers, members of the public and the environment to harm from the operations they undertake.