



# UK Environmental Impact

2016 Review and 2017 Targets

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## Document Information

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## 2016 Review



Certificate Number 8729  
ISO14001  
OHSAS18001  
ISO50001

In July 2016, TSYS underwent re-certification audits for our existing ISO14001:2004 and BS OHSAS 18001: 2007 accreditations for our London, York and Knaresborough offices.

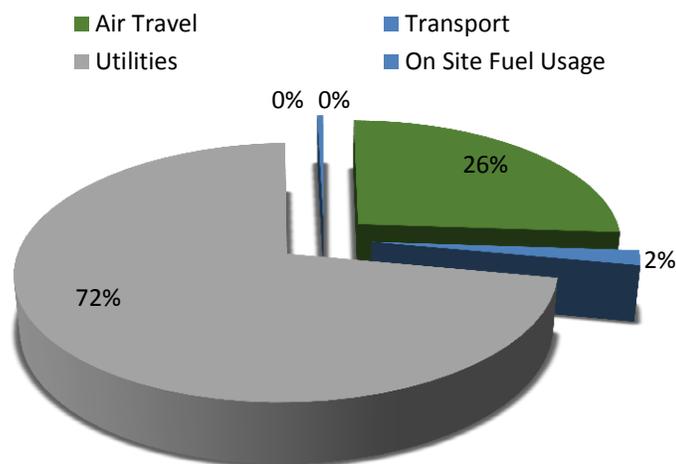
Our new certificates expire in January 2020, subject to the completion of annual surveillance audits. We also completed a successful surveillance audit for ISO50001: 2011 Energy Management Standard in December 2016.

## Carbon Footprint

This year's carbon footprint is based on information for the calendar year 2016.

We have amended the formulae used to calculate our Carbon Footprint to reflect the latest DCF Carbon Factors (2016). Using these latest conversion factors, our carbon footprint shows an overall decrease from 5617 eCO<sub>2</sub> (tonnes) in 2015 to 4430 eCO<sub>2</sub> (tonnes) in 2016.

### 2016 Carbon Footprint by Sector



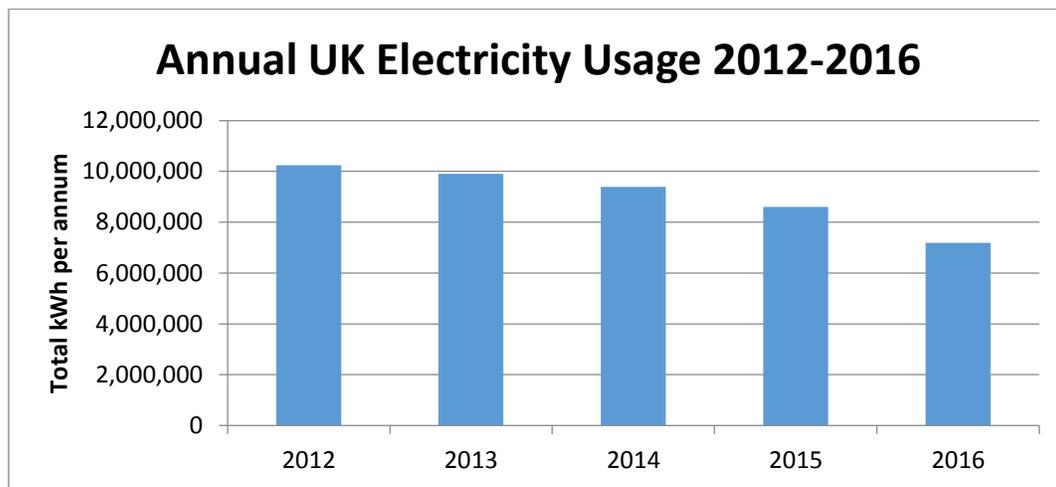
## Energy Usage

Our target was to reduce our total energy usage by 5.46 %, measured by comparing transaction volume against electricity consumption to provide a kWh per transaction. This allows us to reflect business growth while still providing an accurate, demonstrable metric.

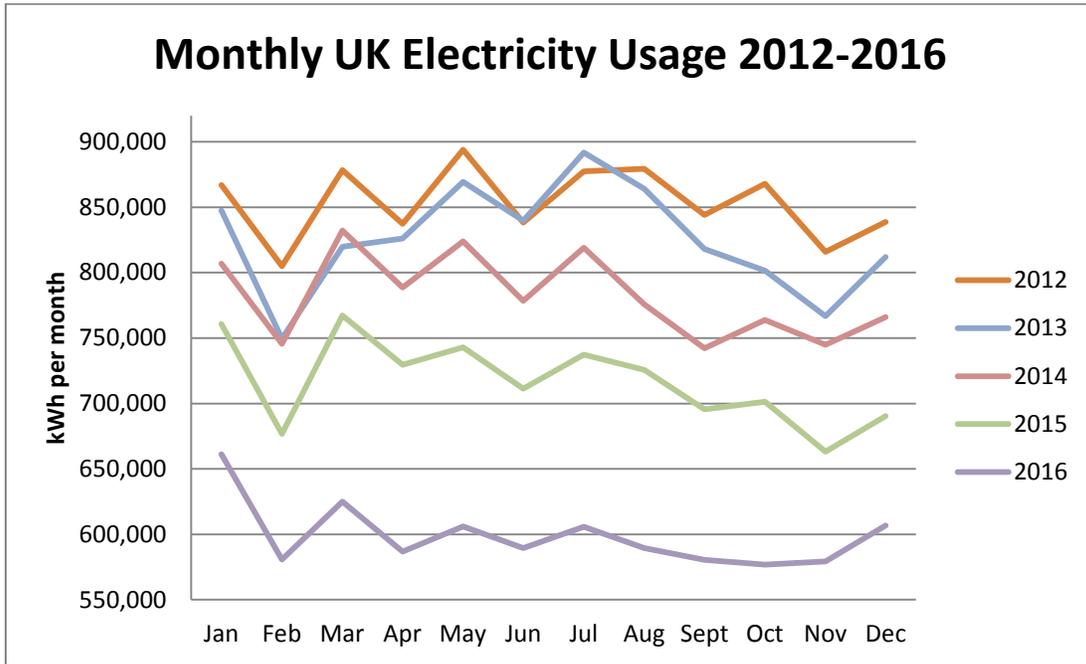
In 2015 our total energy kWh per transaction was 0.3592. In 2016 our total energy kWh per transaction had reduced to 0.2912, showing a year on year reduction of 18.93%. This demonstrates our ongoing commitment to improving our energy efficiency and is the 8<sup>th</sup> consecutive year we have reduced our kWh per transaction.

Our Energy Management Committee meets regularly to review our progress against targets and continues to add new actions to our Energy and Carbon Action Plan.

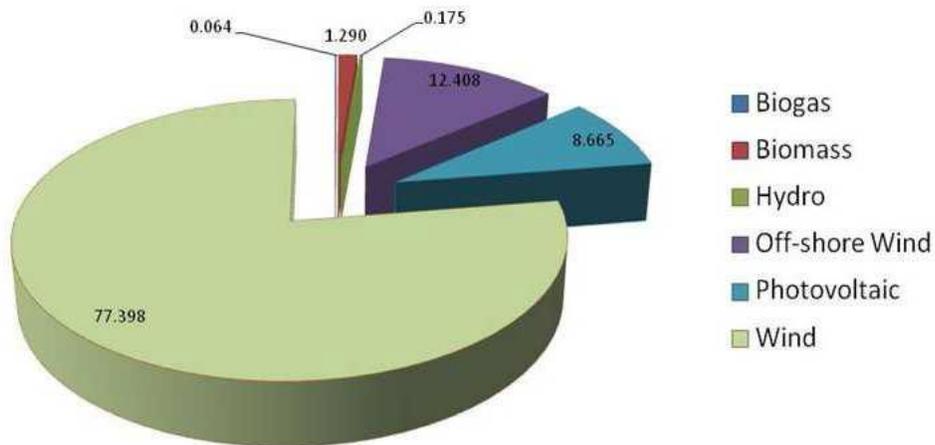
2016 also saw a further reduction in the total number of Electricity kWh used - falling by 16.5% - continuing the progress made over recent years. This was following significant investment in two major schemes. The first was the introduction of the latest virtualization technologies over the last 3 years, which came to fruition from late 2015 to early 2016. The second was the installation of new free-cooling chillers to our York office. In addition to these two changes, we have been occupying just over half of the York office while we undertake a complete refurbishment program.



These major projects, along with an on-going number of smaller changes have led to this significant reduction in our electricity consumption.



In 2008 TSYS started to purchase 'green' electricity, meaning 100% of our consumption comes from good quality combined heat and power sources. Below is a chart showing where this power comes from:



## Water Usage

Our target was to reduce water usage by 2.5% across our York and Knaresborough offices where we have direct control of water usage.

Water usage in 2015 was 4431 cubic meters, which increased marginally to 4480 cubic metres in 2016. We therefore failed to reach our target for water reduction.

## Waste Management

We had two waste targets in 2016.

The first was to divert a minimum of 95% of our waste away from landfill, taken as a percentage of all waste. We achieved this and diverted 100% of all waste produced by TSYS away from landfill. This is made up from confidential waste (after secure on-site shredding), cardboard, plastics, food (via anaerobic digestion), electrical (WEEE), battery, toner cartridge and glass wastes.

Our second waste target was to reduce waste to landfill by a minimum of 3% by volume. We have achieved this target by diverting 100% of our waste away from landfill.

# Our 2017 Targets

## Energy Usage

TSYS recognises that energy usage is our largest single environmental impact and also the main contributory factor in our overall carbon footprint.

As part of our compliance to ISO50001, future energy targets will include gas and diesel usage on site and not be limited to purely electricity usage, and will be measured against our agreed baseline year of 2012.

To accurately measure our energy usage we use the following indicator:

- We will measure transaction volume against energy consumption to provide a kWh per transaction. This measure allows for business growth to be accurately reflected.

## Our Energy Target

We have extended our 2016 target to reduce energy usage by 5.46% into the first 6 months of 2017. This target has been agreed by our Energy Management Committee taking into account we are undertaking a major renovation project to our York office.

This will see the introduction of a direct expansion HVAC system which recovers approximately 30% of heat, saving energy. The air handling units - which deliver fresh air into the building - have heat recovery built in too, again making energy savings. We are also installing an LED lighting solution, which extends to approx. 99% of all lighting. This provides a fully integrated lighting solution, including zones and presence detection, giving more control.

We expect these systems will deliver a significant reduction in the energy used to run the building and will monitor this over the first six months of 2017 before setting a new target for the latter half of the year.

In addition, we will:

- maintain our accreditation to ISO50001 and use this standard to effectively manage our future energy use.
- continue to work with our team members to reduce electricity wastage and introduce new technologies.
- continue to secure adequate and reliable energy supplies at the most advantageous rates and implement contingency plans to protect operations from energy supply interruptions.
- commit to procuring 'green' electricity which is generated from good quality combined heat and power sources.

## Water Usage

TSYS recognises that water is a limited resource and we should ensure that we use this resource wisely within our buildings.

For all our UK premises where we have control of the water supply (i.e. excludes common areas within multi-tenanted buildings) we will measure our water usage in m<sup>3</sup> against the number of employees on site (m<sup>3</sup> per FTE).

## Our Water Target

We aim to reduce water usage by 2.5% in 2017 by working with key suppliers, monitoring our water management systems and encouraging our team members to be aware of and continue to reduce water wastage.

Our York office refurbishment will also see the introduction of sensor controlled taps in all washrooms to minimize water waste.

## Waste Management

We will measure our waste management by the amount of waste we recycle, the percentage of waste diverted from landfill and the overall amount of waste generated by our offices by weight.

## Our Waste Management Target

By working with our key waste management providers, we will support and invest in new technologies to maintain 100% of waste being recycled or diverted from landfill via waste recovery.

We would normally have a second target to reduce the amount of waste by volume, but given no waste went to landfill in 2016, this additional target has been removed.