

**Sustainability at Sheffield Hallam
*Greening our Fleet***

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Thursday 28th January 2016*



Sheffield Hallam University

Sheffield Hallam is the fourth largest university in the UK

33,099 students (25,985 undergraduates and 7,114 postgraduates)

4,494 staff (including 2,114 academic staff)

Turnover of £257.1 million.

Correct as of 2013/14



Sustainability at Sheffield Hallam

University Strategy 2020

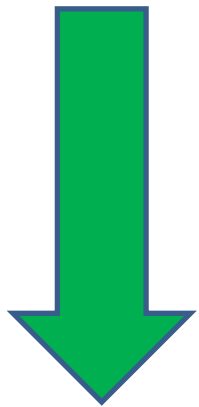
A key ambition is to be a **sustainable university - academically, financially, socially and environmentally.**

provide a high quality, sustainable estate that supports the development of academic activities, and enhances the student and staff experience.

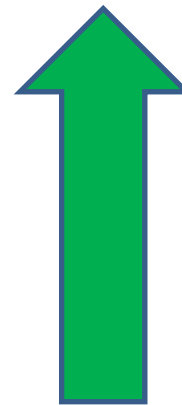
embed the culture of sustainability across the organisation

Sustainability at Sheffield Hallam

The Sustainability Framework - targets



- Carbon emissions
- Energy use
- Water use
- General waste
- Fleet emissions



- Recycling
- Building standards
- Biodiversity
- Awareness



- ISO certification
- Fair Trade status

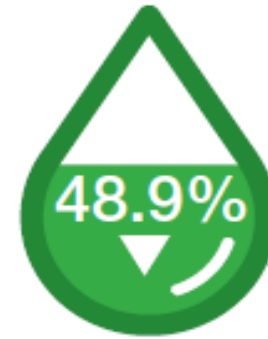
Sustainability at Sheffield Hallam - progress to date



Energy use

The University has reduced carbon emissions resulting from energy use in our buildings by 11.2% since 2005–06.

This achievement is a result of the standardisation of efficient fittings and plant and the introduction of a number of energy reduction schemes and renewable technologies such as building management system controls, voltage optimisation, solar panels and ground source heat pumps, as well as changes to building use across the estate.



Water use

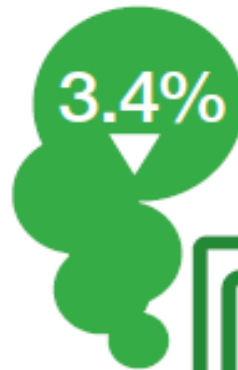
We have reduced water consumption by 48.9% since 2005–06.

The reduction has resulted from investment in water efficient installations across developments on the estate, and a significant operational change when two of our student residences ceased to be managed by the University.

Business travel

During 2014–15 an improved data collection methodology has been implemented to allow us to measure and monitor business travel activities. Establishing an agreed baseline will mean we can monitor progress in the future.

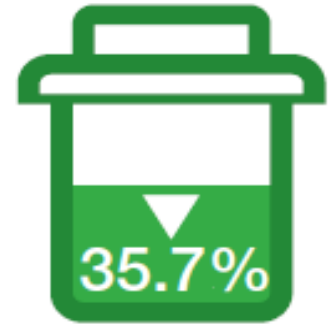
Business travel is now included in the expanded scope of the ISO 50001 Energy Management System, ensuring that emissions and impact will be closely monitored against other types of energy use.



Fleet vehicles

The University has reduced the carbon emissions resulting from fuel used by our fleet by 3.4% since 2012–13.

Sheffield Hallam has a fleet of 20 vehicles, predominantly service vans. The reduction in emissions has resulted from a combination of route planning, driver training and the introduction of alternative fuel sources. In 2014–15 we incorporated a petrol van into the fleet to reduce particulates which are prominent in diesel exhausts, in line with the Sheffield Air Quality Action Plan. An electric vehicle was also successfully trialled with a view to making these a permanent addition to the fleet.



Waste

The amount of waste being produced per Sheffield Hallam student has fallen by 35.7% since 2005–06.

Recycling rates have increased from 10% to 27% since 2005–06.

We continue to be compliant with all waste legislation and zero waste goes to landfill. Non-recyclable material goes to our local energy recovery facility where it is incinerated to provide heat for our buildings via the Sheffield District Heat Network.

| 2014/15 Achievements

- 15th People and Planet University League out of 151 HEI's
- Business in the Community Silver winners 2015
- ISO 14001 and ISO 50001 Environmental and Energy Management Systems



Certification No: 574503



Certification No: 571573

A word cloud of current projects at Sheffield Hallam University. The words are arranged in various sizes and orientations. The word 'Hydrogen Vehicles' is circled in green. Other prominent words include 'ISO50001', 'Green Champions', 'Sustainability Policy', 'SKA', 'Sustainability Framework', 'BREEAM', 'ISO14000', 'Curriculum', 'Waste', 'Water', 'Electric Vehicles', 'Procurement', and 'Travel'. The words are in shades of brown and grey.

ISO50001
Green Champions
Hydrogen Vehicles
Sustainability Policy
SKA
Sustainability Framework
BREEAM
ISO14000
Curriculum
Waste
Water
Electric Vehicles
Procurement
Travel

Sheffield Hallam University

Hydrogen Vehicle Trial -
partnership with ITM Power

- hydrogen refuelling station
at the Advanced
Manufacturing Park,
Rotherham

- provides 80kg per day

- refuels a fleet of vehicles
from Hyundai, Microcab and
converted Ford Transit vans.



Sheffield Hallam University

Trial Details

2 vans and one Microcab on
loan from Coventry
University

4th Jan - 29th Feb 2016 with
potential to extend

Currently only have one van
on site and in use



Feedback

I keep having to switch from hydrogen to diesel but I have to stop the van to do so

You've got to drive it really hard, it's very different from our other vans

The van won't go any faster than 30mph (on the Parkway - major dual carriageway)

Have the cold temperatures affected the vehicle's performance???

I'm concerned it will break down when pulling out of a junction, putting our drivers in danger

Next Steps

- Continue with the trial
- Review all vehicle types and suitability
- Continue to support ITM with their research and learning
- Develop the vision for our fleet
- Spread the word!

| Thank You

Email us at:

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