Welcome to our Environmental Report, which, in keeping with our environmental aspirations, we are publishing online.

Please let us know if you have any feedback on this report, or if you need any additional information.

tees.ac.uk/green

EcoCampus provides a structured framework to manage universities' sustainability performance in logical steps, in line with the international management system standard, ISO14001.

Teeside University is committed to retaining and improving our EcoCampus accreditation. The criteria for this prestigious award enables us to work in a consistent and pragmatic way towards ensuring that we manage our environmental obligations.

We are currently accredited at Gold level and we are committed to retaining this.

There are eleven areas considered within the EcoCampus management system and we have based this environmental report around these...
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HEALTH AND SAFETY

The University produces an annual Health, Safety and Well-being Report which is published online, and can be viewed by staff, students, and members of the public.

TRANSPORT AND TRAVEL

Green travel survey

In November 2014 a comprehensive staff Travel to Work survey was conducted in partnership with Middlesbrough Council. Over 700 University staff participated in this survey which helped to generate useful quantitative and qualitative data on staff travelling habits. This data will be used to help identify priorities and challenges for sustainable travel modal shift in the coming years.

Green travel initiatives

The University offers a range of options to staff to assist with using sustainable methods of transport to travel to the University. These green travel initiatives, which continue to be popular with staff, not only help to reduce the University’s carbon footprint but are also beneficial to staff from a cost saving perspective. Currently around 68 staff are signed up to these initiatives.

Public transport season tickets

Annual travel season tickets are usually a cheaper and more convenient way of using public transport. The University offers staff interest-free loans, repayable over 12 monthly instalments, to pay for train and bus season tickets.
The University takes part in a government-approved scheme which enables staff to purchase cycles and associated equipment tax free.

The University has invested in facilities for staff and student cyclists, ensuring that their needs are catered for, and encouraging them to travel to the University by bicycle. There are currently 349 cycle parking spaces (publically available and secure entry) spread across the Middlesbrough and Darlington campuses. These facilities continue to be popular with around 265 staff and student cyclists registered to use the secure facilities.

<table>
<thead>
<tr>
<th>Campus</th>
<th>Publicly available cycle parking spaces</th>
<th>Secure entry cycle parking spaces (including locker, showering and changing facilities)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middlesbrough</td>
<td>68</td>
<td>129</td>
</tr>
<tr>
<td>Darlington</td>
<td>132</td>
<td>20</td>
</tr>
</tbody>
</table>

It is hoped that, with the continued success of the Cycle to Work scheme and increased promotion of facilities for cyclists on campus, the number of cyclists on campus will remain strong in the coming years.
From April 2014, Teesside University’s waste has been dealt with by O’Brien’s. This has enabled us to consolidate the waste management process and to improve the Management Information provided.

<table>
<thead>
<tr>
<th>Waste stream</th>
<th>Provider</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>O’Brien’s</td>
</tr>
<tr>
<td>Recyclable</td>
<td>O’Brien’s</td>
</tr>
<tr>
<td>Hazardous</td>
<td>PHS</td>
</tr>
<tr>
<td>Confidential</td>
<td>Shred-It</td>
</tr>
<tr>
<td>All waste from residences</td>
<td>MBC</td>
</tr>
</tbody>
</table>

Confidential waste

The University has installed a console system throughout the site, with secure confidential waste sacks for overflow to ensure security. All the waste produced through this stream is recycled by Shred-It.

Recyclable waste

On average, 20% of our waste is separated into recyclable materials on site. However, our waste contractors also sort commingled waste, before recycling at their depot.

None of our waste is sent to landfill. 100% of our waste glass is recycled.

Monthly waste reports are available to all staff and students online, showing the weight of waste we generate and how it is dealt with.
Reuse

In an attempt to reduce our levels of waste furniture throughout the university, we have partnered with Warp-It, an organisation committed to re-use of resources and reduction in both recycling and waste. Reports on this initiative are shared via emails to all staff and on the Green Tees webpage.

<table>
<thead>
<tr>
<th>February 2013 to August 2016</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CO2 Saved (KG)</td>
<td>45,783 KG</td>
</tr>
<tr>
<td>Waste avoided (KG)</td>
<td>12,490 KG</td>
</tr>
<tr>
<td>Total savings (£)</td>
<td>£74,017</td>
</tr>
<tr>
<td>Equivalent trees planted</td>
<td>62</td>
</tr>
<tr>
<td>Cars off the road for one year</td>
<td>19</td>
</tr>
</tbody>
</table>

Working with local charities

We work with British Heart Foundation to help reduce the environmental impact of some of our unwanted furniture and other goods.

When furniture has been through WARP-it and we know that it is not wanted by anyone on campus, we donate it to British Heart Foundation.

We have two large permanent donation bins on campus and also put out small portable collection bins on a regular basis. From April to August 2016 158 bags were donated by students and staff, weighing approximately 1.3 tonnes, with a value to the British Heart Foundation of around £2,212.

Clothing, shoes and so on go to the Middlesbrough BHF retail shop. The furniture and electrical items donated are distributed around local BHF furniture and electrical shops including Middlesbrough, Eston, Hartlepool and Redcar.

British Heart Foundation said, ‘We are very grateful for all the donations made by the University. We are able to sell these items locally, and the money raised contributes to saving lives and maintaining heart health for people in Teesside.’

General commercial waste

This is collected from buildings and transported to our waste compounds by our waste operative using a small electric vehicle. The University now sends no general commercial waste to landfill.

Hazardous waste

All hazardous waste is collected on site by PHS, and serviced off site. Due to its nature, none of the waste produced in this stream is recycled.
ENVIRONMENTAL MANAGEMENT SYSTEMS

EcoCampus

EcoCampus is a national environmental management system (EMS) award scheme for the higher education sector. The scheme allows Teesside University to be recognised for addressing key issues of environmental sustainability, including carbon reduction. The University is currently accredited at Gold level and we are committed to maintaining this and working towards Platinum standard.

Green Impact – Students’ Union

Teeside University Students’ Union was awarded a gold standard in the National Union of Students (NUS) Green Impact Excellence Awards for the fourth year running in 2015 for efforts to make the Students’ Union and University greener.

POLICY

Teeside University’s Environmental Policy is overseen by the Environmental Advisory Group and is reviewed annually. It is published on our Green Tees website and is available to staff, students and the public.
COMMUNITY INVOLVEMENT

The University is proud of its links with the local community, across all departments and Schools, involving a wide range of students and staff. Some historic examples of these were published in the staff magazine, Grapevine, and can be seen by students, staff and the public.

More recent updates are published in the weekly University Update, which is sent by email to all staff.

| Middlesbrough Food Bank (Grapevine Issue 148) | British Heart Foundation Donation Points on Campus (Grapevine Issue 142) |
| University Volunteer at Local Nature Reserve (Grapevine Issue 136) | British Heart Foundation Donation Points on Campus (Grapevine Issue 142) |
| Communities Living Sustainably – Volunteer Opportunities (Grapevine Issue 131) |

Fairtrade

Teesside University achieved Fairtrade re-accreditation in 2015 - [http://www.tees.ac.uk/sections/about/fairtrade.cfm](http://www.tees.ac.uk/sections/about/fairtrade.cfm)

We are working towards reaccreditation in 2017.

Middlesbrough Environment City

Teesside University is an active member of Middlesbrough Environment City (MEC) and worked with colleagues from Middlesbrough College, James Cook Hospital and Middlesbrough Council, to develop and launch a local Food Action Plan - [http://www.menvcity.org.uk/fap](http://www.menvcity.org.uk/fap) - which aims to increase the purchasing of locally sourced food, address food poverty and reduce food waste. Teesside University Catering actively supports the MEC Local Food initiative and took part in two Local Food Weekends in summer 2016.
CONSTRUCTION AND REFURBISHMENT

Construction waste

Construction waste from new and refurbishment works are streamed at source, on site, by each contractor and then taken to local waste management depots for recycling. Any general waste produced by the project is sifted and sorted at the waste management depot by the waste contractor and then categorised for landfill or recycling. Waste certificates for each project are then provided by the contractor. General waste and recyclable skips for smaller in-house works will be introduced in the near future to better manage these waste streams.

Construction materials

The estates team, wherever possible within the confines of the allocated budget, will specify materials that are manufactured from recyclable materials and/or manufactured within the UK to reduce the scope 2 and 3 emissions in manufacture and delivery.
ENERGY AND WATER

Our energy team produce a comprehensive energy report every month and then annually. This is available to staff, students and the public on our Green Tees website.

Carbon

In 2009, Teesside University achieved the Carbon Trust Standard, the world’s first independent carbon award that requires organisations to measure and reduce carbon emissions across their own operations.

The University’s carbon reduction target is 34% of the 2005 consumption by 2020, meaning that we have to save 3719 tonnes of carbon dioxide by 2020.

Energy monitoring

The aim of the University’s monitoring and targeting (M&T) system is to provide a better understanding of how energy and water is being used across campus. In particular, it identifies if there are signs of avoidable waste and highlights opportunities to reduce consumption.

M&T can be used to quantify the savings achieved by energy saving projects and campaigns, and provide feedback for staff awareness. It will also help to improve budget setting and support benchmarking exercises.

Revolving Green Fund

The Revolving Green Fund (RGF) provides recoverable grants to help higher education institutions in England reduce emissions and save money.

The RGF encourages innovative projects that significantly reduce energy use and therefore carbon emissions. For a second year Teesside University has been successful in its bid for funding. This year, for example, we replaced a high energy consuming cooling system with an energy efficient evaporative cooling system within a key server room. The project was completed in September 2015 and savings will be monitored throughout the year.

Carbon reduction projects

Teesside University continues to deliver carbon reduction and energy efficient projects. This year these have included the following:

<table>
<thead>
<tr>
<th>Project</th>
<th>Building</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaporative Cooling system in server room, which has resulted in a 56% reduction in energy use in this area</td>
<td>Parkside West</td>
</tr>
<tr>
<td>Installation of energy efficient lighting: this included the replacement of inefficient light fittings with LED lighting, and the installation of SMART controls or local PIR sensors.</td>
<td>Campus-wide</td>
</tr>
<tr>
<td>Energy metering project</td>
<td>Campus-wide</td>
</tr>
<tr>
<td>Phase 2 of a three phase project to remove damaging HCFCs from our air conditioning systems is underway.</td>
<td>Campus-wide</td>
</tr>
</tbody>
</table>
Carbon emissions - the technical data

TEESSIDE UNIVERSITY CO₂ EMISSIONS BASELINE AND CLIMATE CHANGE ACT TARGETS
(EXCLUDING WASTE & TRAVEL EMISSIONS)

1 - ASSUMING 43% REDUCTION IN 2005 BASELINE BY 2020
2 - ASSUMING 80% REDUCTION IN 2005 BASELINE BY 2050
# Carbon emissions - the technical data

## Scope 1 & 2 Target Emissions and Progress (43% reduction by 2020/21)

<table>
<thead>
<tr>
<th>Year</th>
<th>CO₂ Emissions (tonnes)</th>
<th>Target (tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005/06</td>
<td>8949</td>
<td>9404</td>
</tr>
<tr>
<td>2006/07</td>
<td>8222</td>
<td>9643</td>
</tr>
<tr>
<td>2007/08</td>
<td>9404</td>
<td>9645</td>
</tr>
<tr>
<td>2008/09</td>
<td>9643</td>
<td>9347</td>
</tr>
<tr>
<td>2009/10</td>
<td>9347</td>
<td>8483</td>
</tr>
<tr>
<td>2010/11</td>
<td>8483</td>
<td>8810</td>
</tr>
<tr>
<td>2011/12</td>
<td>8810</td>
<td>7913</td>
</tr>
<tr>
<td>2012/13</td>
<td>7913</td>
<td>8846</td>
</tr>
<tr>
<td>2013/14</td>
<td>8846</td>
<td>8622</td>
</tr>
<tr>
<td>2014/15</td>
<td>8622</td>
<td></td>
</tr>
<tr>
<td>2015/16</td>
<td></td>
<td></td>
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<td>2016/17</td>
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<td>2018/19</td>
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<td>2019/20</td>
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<tr>
<td>2020/21</td>
<td></td>
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</tr>
</tbody>
</table>
EMISSIONS AND DISCHARGES

Emissions and discharges are covered in the annual Health, Safety and Well-being Report, which is published online.

To minimise the negative environmental impact of the University in relation to its activities which produce emissions to the atmosphere or discharges to the drainage system the University has a Waste Emissions and Discharge Policy to ensure that all waste produced is stored, removed, treated and disposed of according to legislative requirements and the Best Practicable Environmental Option. During 2014 the Waste Emissions and Discharge Policy was reviewed and found to be still meeting the above objective. The requirement in the Health and Safety Policy Statement regarding the safe disposal of waste is still in place and the Asbestos, Control of Substances Hazardous to Health (COSHH) and Radiation Safety Policies are still relevant for activities involved in dealing with emissions and discharge of waste.

SUSTAINABLE PROCUREMENT

Teesside University has a Contract Standing Orders and Procurement Guidelines manual, which includes a section on Sustainable Procurement.

The University’s Sustainable Procurement Framework requires that sustainability and environmental issues are considered in the procurement of all goods, services and works supplied to the University.

The Procurement Section will assist staff to comply with the policy through the following objectives:

1. Raise environmental awareness amongst University purchasers.
2. Ensure relevant environmental issues are considered as part of the procurement process.
3. Support and encourage suppliers to be compliant with any current and future environmental legislation and help where possible companies to attain environmental accreditation.
4. Encourage the use of suppliers who aim to adhere to greener policies.
5. Conduct whole life costing exercises where appropriate, taking into account factors affecting the environment.
6. Consider lease options where appropriate as an alternative to purchase in order to reduce waste.
7. Specify carbon and energy saving goods or services which are more environmentally friendly.
8. Encourage the purchase of recycled goods or goods with recycled content.
9. Minimise and regulate the amount of waste generated from University purchases by encouraging suppliers and contractors to return and reuse packaging.
10. Promote and make full use of services offered by suppliers and contractors who will collect and recycle previously supplied used items.
11. Reduce the number of delivery vehicles entering and leaving site, by encouraging the use of contracted suppliers and scheduled deliveries.
12. Encourage the purchase of goods which are from a sustainable source and have the highest efficiency energy ratings.
COMMUNICATING SUSTAINABILITY

Information about our commitment to environmental issues can be found on our Green Tees webpage – [tees.ac.uk/green](tees.ac.uk/green).

Additionally, to ensure that all staff are aware of environmental initiatives in and around Teesside University, regular ‘green’ stories were published in Grapevine, Teesside University’s monthly staff newsletter (see below and click on [Green Tees](tees.ac.uk/green)) and will now be cascaded via the fortnightly “University Update” newsletter.

| Join the Cycling Challenge (Grapevine Issue 158) | University Moves Up Green League (Grapevine Issue 154) |
| Free Rail Travel (Grapevine Issue 153) | Sky Ride Riverside Ramble (Grapevine Issue 150) |
| Keep in Touch With Environmental Issues (Grapevine Issue 144) | Green Tees – Your Help is Needed (Grapevine Issue 145) |
| Green Travel Initiatives for Staff (Grapevine Issue 140) | Harvest Swish in the Library (Grapevine Issue 140) |
| WEE Amnesty (Grapevine Issue 134) | University Win Healthy Eating Award (Grapevine Issue 139) |
| Eco Campus Silver Award for Teesside University (Grapevine Issue 133) | National Bike Week 2013 (Grapevine Issue 135) |
| Staff Encouraged to get on their Bikes (Grapevine Issue 126) | Cycle to Work Scheme Proves Popular and is Extended (Grapevine Issue 131) |
| National Bike Week (Grapevine Issue 123) | MSR Reduce Carbon Footprint (Grapevine Issue 128) |
| | Green League Points (Grapevine Issue 124) |
| | Northern Rail Discount Scheme (Grapevine Issue 121) |
| Gearing up on Facilities for Cyclists on Campus (Grapevine Issue 118) | Carbon Reduction Commitment (Grapevine Issue 116) |
| Cycle Dr Coming to the University (Grapevine Issue 116) | Electric Vehicle (Grapevine Issue 114) |
SUSTAINABILITY IN THE CURRICULUM

Teeside University has made significant steps towards embedding sustainability into the curriculum. Courses currently available, which address sustainability and other environmental issues include

- BSc (Hons) Environmental Science
- BSc (Hons) Environmental Science with Professional Experience
- BA (Hons) Interior Architecture
- BA (Hons) Product Design

Postgraduate study options covering Science and Environment include Energy and Environmental Management, and Food Science and Biotechnology.

RESEARCH

Over the last three years the University has dedicated funds totalling USD78,534 to environmental and sustainability research.

Over the same period The University has had 155 scholarly publications on environment and sustainability published.
Managing Sustainability The Management Structure

Vice-Chancellor and Chief Executive

University Senior Management Team

Value for Money Advisory Group

Health and Safety Advisory Group

Environment Committee

Community Involvement

Chair of Environment Committee – Director, Campus Services

Chief Operating Officer

Environment Executive Group

• Environmental Policy
• Environment Management Systems

Sustainable Development in the Curriculum Sub-committee

Green Transport and Waste Management Sub-committee

Energy, Water and Building Sub-committee

Director, Campus Services

Environment Management Systems Manager

Director, Campus Services

Waste Manager

Facilities Manager

Transport Facilitator

Travel Policy Co-ordinator

Construction and Refurbishment Manager

Projects Manager

Energy and Water Manager

Assistant Director, Estates Services and Energy Procurement

Health, Safety and Welfare Manager

Health and Safety Adviser

Emissions and Discharges Manager

Senior Technician Manager

Sustainable Procurement Manager

Deputy Director of Finance

Procurement Advisory Group