

ENVIRONMENTAL  
REPORT

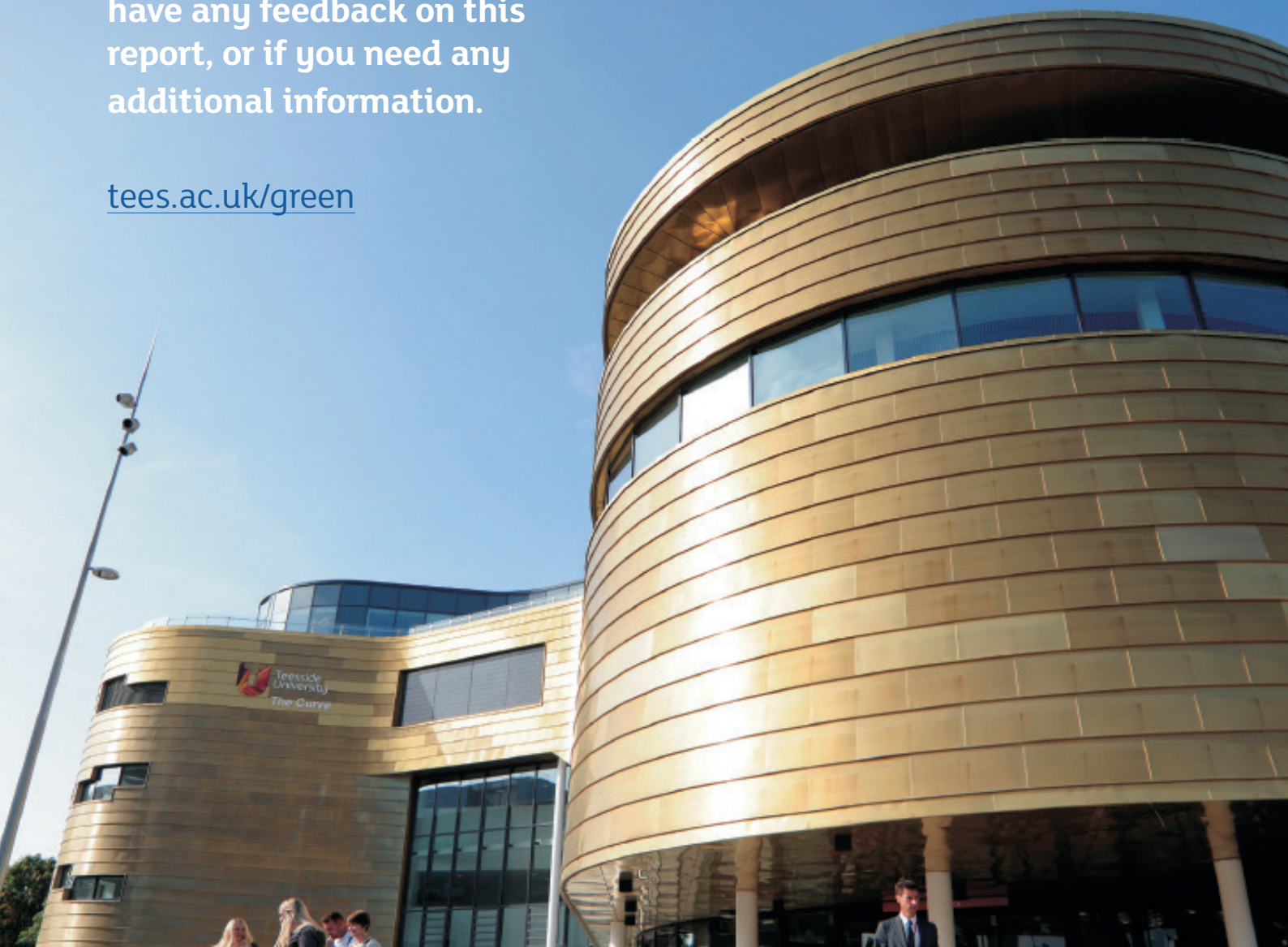
2017



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](http://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.

Teesside 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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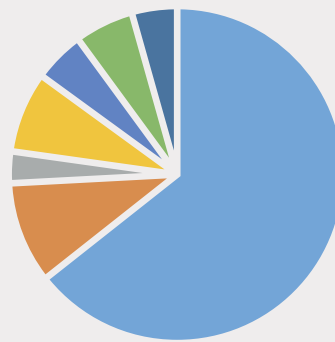
# HEALTH AND SAFETY

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.



- Car / Van Driver (alone)
- Car / Van Driver (passenger)
- Train
- Cycle
- Car / Van Driver (with passenger)
- Bus
- Walk
- Other (including motorbike)

### 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 69 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.

	2015	2016	2017
Bus season tickets	19	14	18
Train season tickets	17	21	22
Cycle to Work Scheme	51	33	29

## Cycle to work scheme

The University takes part in a government-approved scheme which enables staff to purchase cycles and associated equipment tax free.



## Cycle to work scheme

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.

<b>Middlesbrough campus</b>	68 publically available cycle parking spaces 129 covered secure entry cycle parking spaces (including locker, showering and changing facilities).
<b>Darlington campus</b>	132 publically available cycle parking spaces 20 covered secure entry cycle parking spaces (including locker, showering and changing facilities).

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.

# WASTE MANAGEMENT

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.

Waste stream	Provider
General	O'Brien's
Recyclable	O'Brien's
Hazardous	Healthcare Environmental, SRCC and Rentokil Initial
Confidential	Shred-It
All waste from residences	MBC

## 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 comingled 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



February 2013 to December 2017	
CO2 Saved (KG)	68,378 KG
Waste avoided (KG)	18,652 KG
Total savings (£)	£86,526
Equivalent trees planted	93
Cars off the road for one year	29

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.

## 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. In 2017, 532 bags were donated by students and staff, weighing approximately 4.2 tonnes, with a value to the British Heart Foundation of around £7,448.

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

The Students' Union has continued to improve the sustainability of its building with the fitting of low energy lighting and occupancy sensors in redeveloped areas, helping to deliver a reduction in utilities and carbon. Teesside Students Union is part of the National Union of Students' Green Impact initiative and is working with the University on a green travel plan for the main campus.

### **This year the Students' Union has sold:**

- > nearly 20,000 hot drinks from Fairtrade sources
- > over 300 Fairtrade garments sold in SU Shop
- > over 500 Fairtrade biscuits and cakes

In addition it sold over 10,000 Cadburys Life and Rainforest Alliance confectionery items.

The main clothing supplier of clothing products sold in the SU shop is Cottonridge – 'Cottonridge is actively committed to working towards a fair living wage for our overseas workers and we are a prominent promoter of this policy within our industry.'

## Policy

Teesside 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.

<a href="#">Middlesbrough Food Bank</a> (Grapevine Issue 148)	<a href="#">British Heart Foundation Donation Points on Campus</a> (Grapevine Issue 142)
<a href="#">University Volunteer at Local Nature Reserve</a> (Grapevine Issue 136)	<a href="#">British Heart Foundation Donation Points on Campus</a> (Grapevine Issue 142)
<a href="#">Communities Living Sustainably – Volunteer Opportunities</a> (Grapevine Issue 131)	

## Fairtrade

We are applying for Fairtrade accreditation for 2018, and a working party, mainly student representatives, has been formed to assist this process. More information about Teesside University and Fairtrade can be found [here](#).

## 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/> - 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 2017.



# CONSTRUCTION AND REFURBISHMENT

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## 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 land fill 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

The University's carbon reduction target is 43% of the 2005 consumption by 2020, meaning that we have to save 3848 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.

## Carbon reduction projects

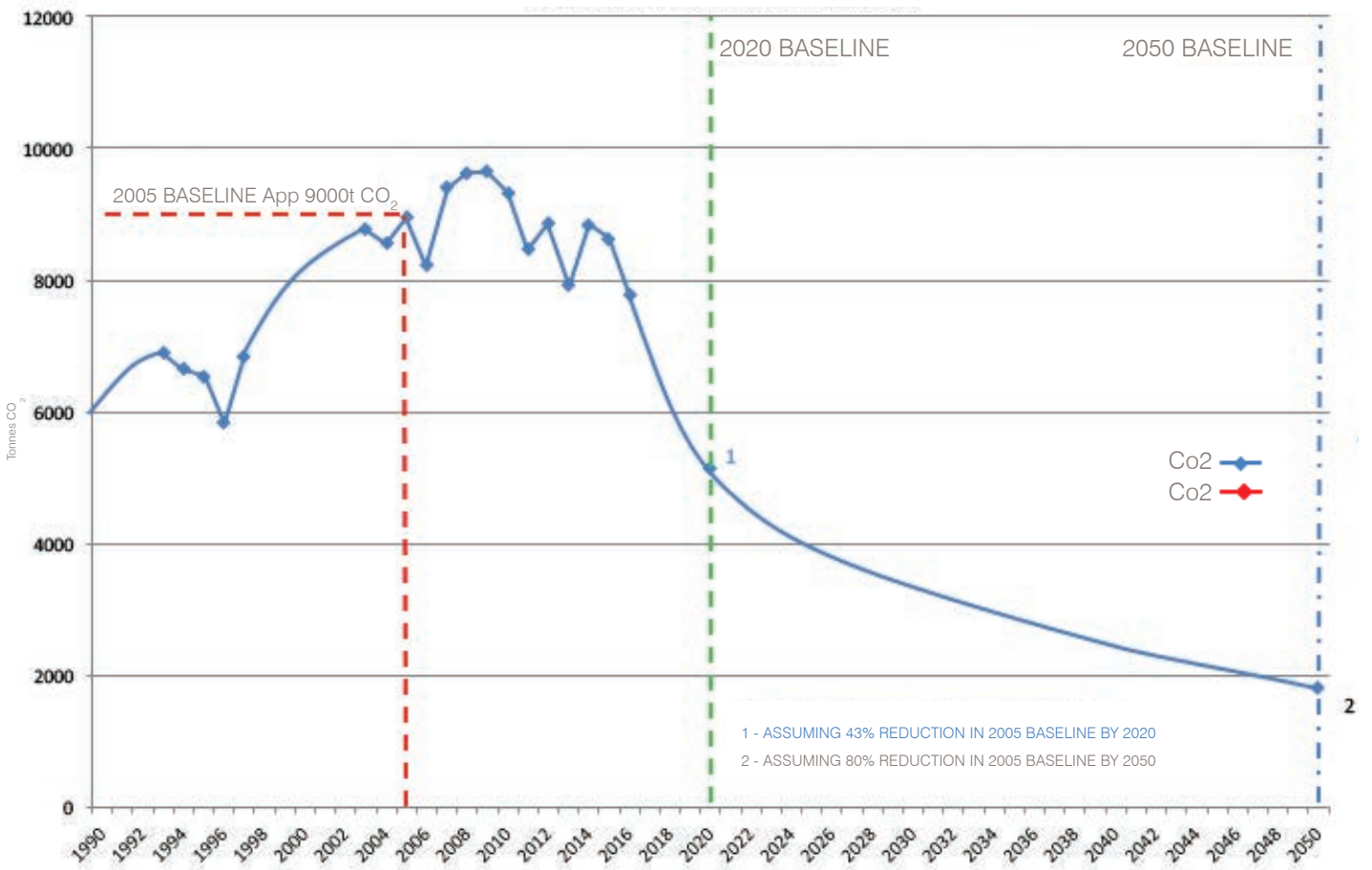
Carbon Reduction Commitment Energy Efficiency Scheme (CRCEES); The University submitted an Annual Report to the Environment Agency on 19 July 2017.

Reporting total emissions of 7013 tonnes of CO<sub>2</sub> for reporting year April 2016 to March 2017. This resulted in an overall reduction of 973 tonnes CO<sub>2</sub> since 2015/16.

Project	Building
Installation of new energy efficient hot water systems	Woodlands Halls (block 1 to 4)
Installation of energy efficient lighting (LED) and SMART controls or local PIR sensors	Campus-wide
Installation of water meters within each floor of accommodation to enable monitoring of water consumption	Central Halls
Continuation of project to remove damaging HCFCs from our air conditioning systems	Campus-wide

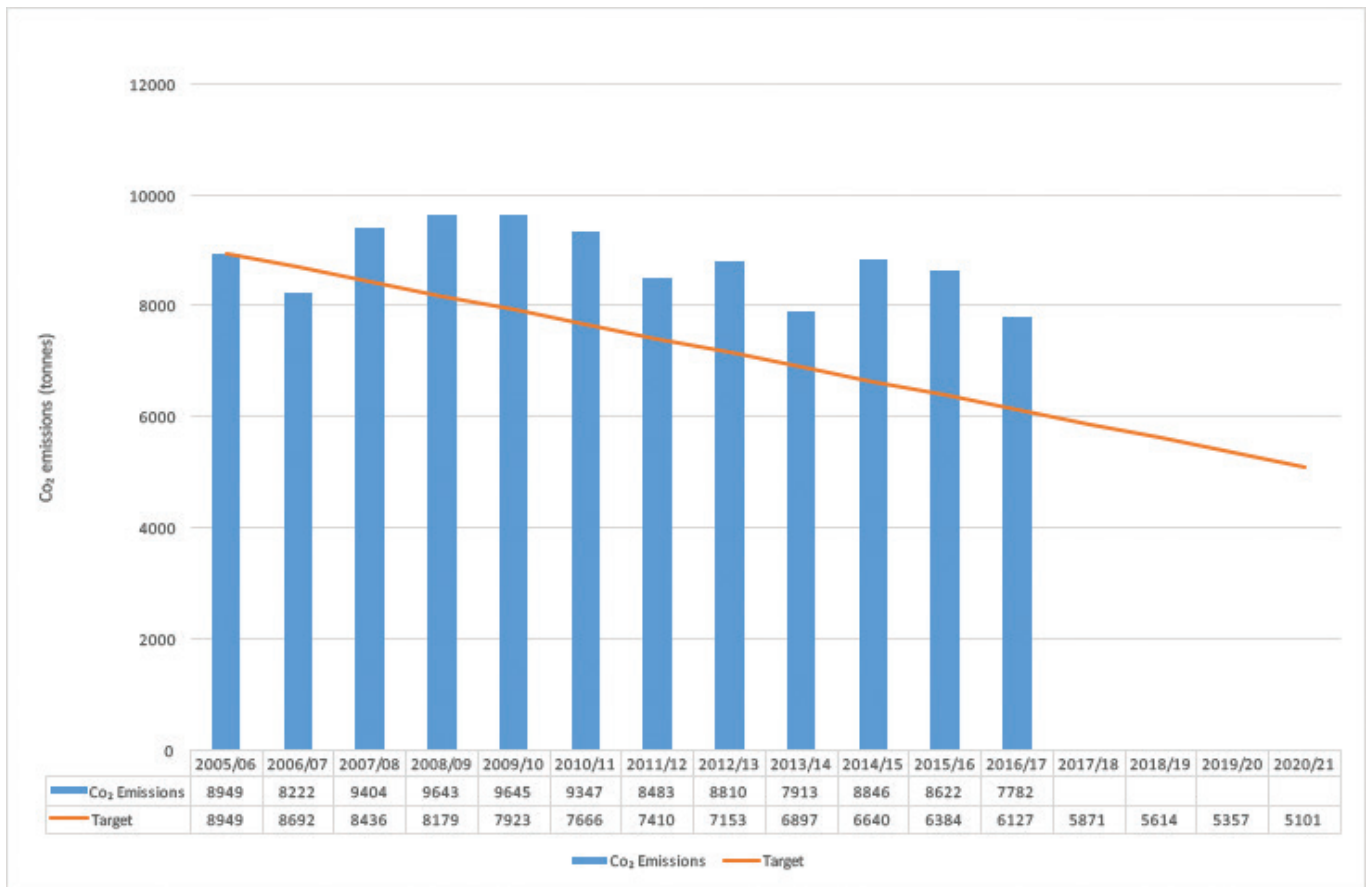
## Carbon emissions - the technical data

TEESSIDE UNIVERSITY CO<sub>2</sub> EMISSIONS BASELINE AND CLIMATE CHANGE ACT TARGETS  
(EXCLUDING WASTE & TRAVEL EMISSIONS)



## Carbon emissions - the technical data

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



# EMISSIONS AND DISCHARGES

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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

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Teesside University has a procurement 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 in to 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 re use 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](http://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](#)) and will now be cascaded via the fortnightly "University Update" newsletter.

[Keeping your two wheels in working order](#)

(Grapevine issue 165)

[Safe disposal of IT equipment](#)

(Grapevine issue 164)

[Landscaping for Southfield Road](#)

(Grapevine Issue 149)

[Black to green footprints](#)

(Grapevine Issue 149)

[Gold Award for Teesside University](#)

[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)

[Green Tees – Your Help is Needed](#)

(Grapevine Issue 145)

[Keep in Touch With Environmental Issues](#)

(Grapevine Issue 144)

[Harvest Swish in the Library](#)

(Grapevine Issue 140)

[Green Travel Initiatives for Staff](#)

(Grapevine Issue 140)

[University Win Healthy Eating Award](#)

(Grapevine Issue 139)

[National Bike Week 2013](#)

(Grapevine Issue 135)

[WEE Amnesty](#)

(Grapevine Issue 134)

[Eco Campus Silver Award for Teesside University](#)

(Grapevine Issue 133)

[Cycle to Work Scheme Proves Popular and is Extended](#)

(Grapevine Issue 131)

[MSR Reduce Carbon Footprint](#)

(Grapevine Issue 128)

[Staff Encouraged to get on their Bikes](#)

(Grapevine Issue 126)

[Green League Points](#)

(Grapevine Issue 124)

[National Bike Week](#)

(Grapevine Issue 123)

[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)

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# SUSTAINABILITY IN THE CURRICULUM

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

[MSc Energy and Environmental Management](#)

[MSc Energy and Environmental Management \(with Advanced Practice\)](#)

[BSc \(Hons\) Environmental Science](#)

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# RESEARCH

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In the academic year 2016/17 the University has dedicated funds totalling £479,280 to environmental and sustainability research.

Over the same period The University has had 136 scholarly publications on environment and sustainability published.



# UNIVERSITY OF INDONESIA GREENMETRIC WORLD UNIVERSITY RANKINGS 2017

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For the second time Teesside University has taken part in the GreenMetric World University Rankings. It is the first and only university rankings in the world to measure each participating university's commitment in developing an 'environmentally friendly' infrastructure. The rankings consider six indicators of each university (setting and infrastructure, energy and climate change, waste, water, transportation and education). This year 619 universities in 76 countries participated, compared to last year when 515 universities in 75 countries took part.

Universitas Indonesia (UI) released the result of UI GreenMetric World University Rankings 2017 on 11 December 2017, and the rankings were announced at the Makara Art Centrum Building.

This year Teesside University are ranked 159th out of 619 worldwide institutions (18th in UK), compared to 186th out of 516 in 2016.

The full results of the metric can be viewed here:

<http://greenmetric.ui.ac.id/overall-ranking-2017/>



## Disclaimer

The information contained in this Report is, as far as possible, accurate and up to date at the time of publishing.

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