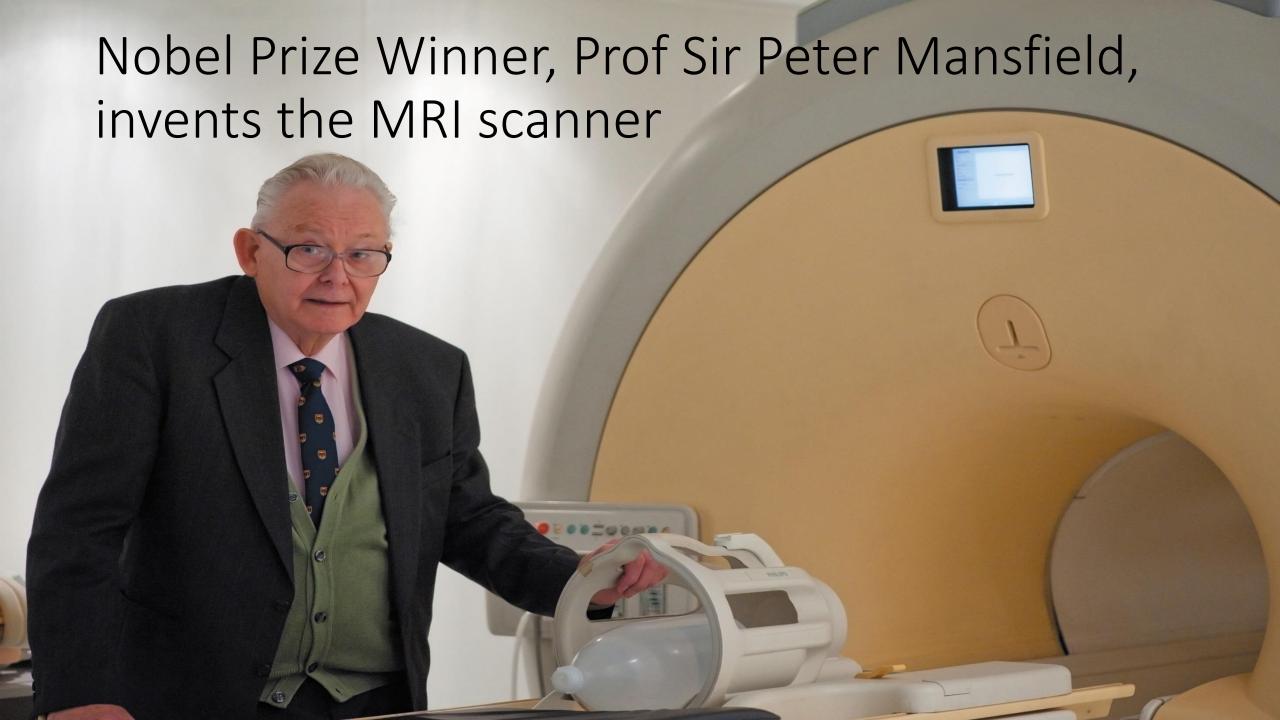


## /Nottingham in Numbers...



- 5 campuses across 3 countries and 2 continents
- 43,893 high-calibre students worldwide
  - 11,000 students studying for University of Nottingham degrees in Asia
  - **24,455** UK Undergraduates **8,743** UK Postgraduates
- **9000** staff world-wide

- **£1.1bn** of annual economic impact in the UK
  - **18,000** jobs supported by University activity
- **£600m** annual income 2014/15
- **£186m** in research awards 2014/15
  - **60%** of research income linked to industry
- £500m total research portfolio



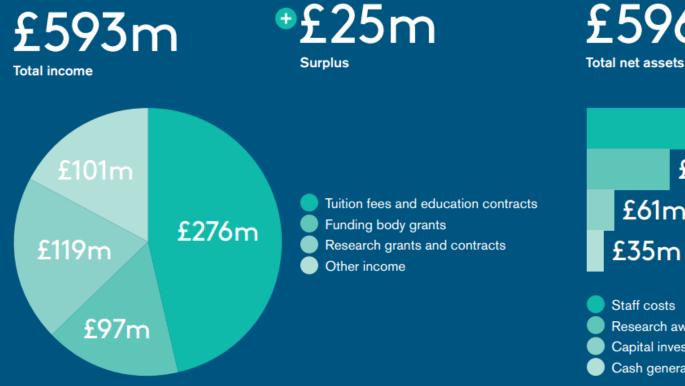




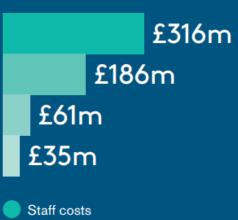
## /Finances...



2015







- Research awards
- Capital investment
- Cash generated from operating activities

## /Global reputation







Nobel

**Sir Clive Granger** 

Sir Peter Mansfield (2003 - Medicine)

(2003 - Economic Science)

Teaching standards at the University received the **highest** possible commendation in the latest QAA (Quality Assurance Agency) audit (2009)

Green Flag Award

green flag awards since 2003 across University Park and Jubilee Campuses

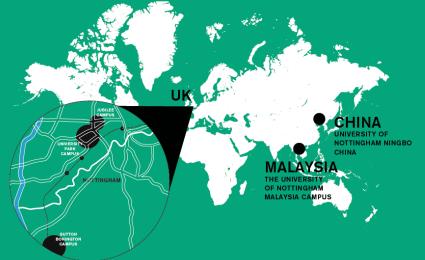


Winner of the Times Higher **Education Awards 2014** Research Project of the Year

## /International reach



UNITED KINGDOM · CHINA · MALAYSIA



other od Links with more than

300

UNIVERSITIES IN OVER

40

An alumni community of over

250,000 SACROSS THE GLOBE

Across our **UK**, **China** and **Malaysia** campuses, we have over



students from more than

**150** 

different countries. Of these, over



are engaged in postgraduate study

ALMOST



/02

University locations

Our global campuses









Raleigh Chopper – Launched in Nottingham

1969









## Sustainability – 10 key areas

Waste & recycling Research Carbon and energy management Teaching & learning Travel & transport Information Technology Community engagement Awareness raising, training, communication Procurement Campus development

#### Governance



- Environment Committee
- University Executive Board
- University Council
- Major investments through University Executive Board and Finance Committee



## Management





- Director of Sustainability leads Sustainability Directorate
- 10 office based staff
- 50 operational staff

# Sustainability Operational Budget (14/15)

	Pay	Non-Pay
Energy (Gas & Elec +)	-	9,788,969
Grounds/ Landscape	1,419,001	646,515
Transport	318,101	237,082
Environmental	2,883	153,476
Total	1,739,985	10,826,042



## How are We Performing?



- 1st place in Greenmetric Ranking of World Universities 2015
- People &Planet 2015 2:1
- Guardian Higher Education Awards Best sustainability initiative 2015.
- Times Higher Education award for 'Outstanding contribution to sustainable development' in 2012
- NOOC shortlisted for Guardian University Award 2014
- Highly Commended Green Gown commendation for 'Sustainability in Teaching & Learning' in 2014
- 1 Winner and 2 Highly Commended Awards at 2015 Green Gown Awards

#### /Global innovation



UNITED KINGDOM · CHINA · MALAYSIA



## /World-Class research



In the latest Research Excellence Framework (REF) 2014



more than

97%

of research at the University is internationally recognised

more than

80%

of research is ranked as

'world leading' or 'internationally excellent'



in the UK for funding across both Knowledge Transfer Partnerships and Research and Development

Research Councils UK, 2015

## Sustainability Research

- Environmental Technologies Research Institute
- Sustainable chemistry
- Crops for the future
- International Centre for Corporate Social Responsibility
- Energy, environmental and sustainability research portfolio worth over £20m per year
- Creative Energy Homes



## Teaching & learning

- Professional institutions require graduates to have sustainability and corporate social responsibility knowledge
- 'Sustainability' increasingly part of curricula across the University
- Careers events focused on sustainability sector we're working with IEMA
- Students believe sustainability skills are important to their future employers
  - Employers anticipate a need to employ staff with sustainability skills
  - Education for Sustainable Development
  - Perspectives on Sustainability NOOC
  - Sustainability, Society and You MOOC
  - Nottingham Advantage Award

#### FREE ONLINE COURSE

## Sustainability, Society and You

Join us for an introduction to the major global issue of sustainability and discover how you can have a real impact on our future.

Register interest







#### Sustainable Construction



- All new buildings to achieve BREEAM 'excellent' standard
- Green design principles low embodied energy, passive design, maximise natural daylight, green roofs, lake source heating/cooling
- Gateway Building at Sutton Bonington uses straw bale construction





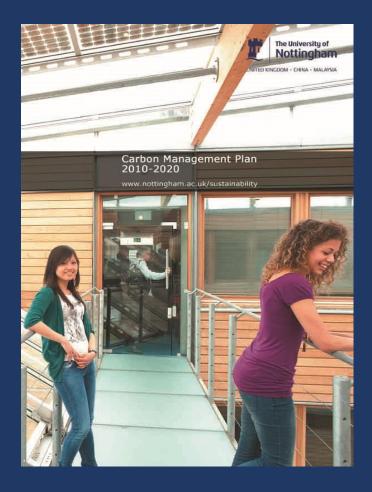


## **Carbon Management Plan**

The University of Nottingham

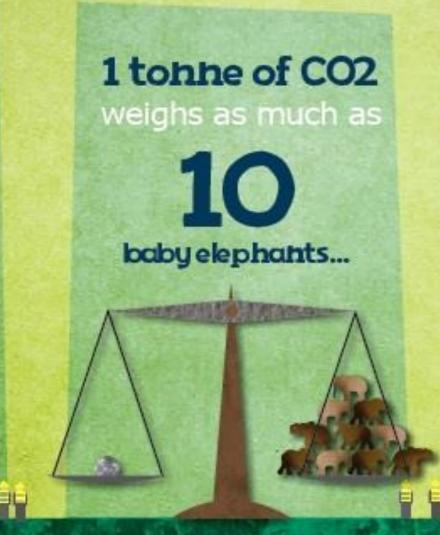
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- £10m annual energy costs
- University carbon targets
  - baseline of 68,000 tonnes (2009/10)
  - reduce to 54,000 tonnes/yr by 2015
  - reduce to 41,000 tonnes/yr by 2020
- 57,596 tonnes in 2014/15
- Like for like comparison 2010 2015 Total CO<sub>2</sub> emissions -21%
- £20m new investment programme
  - £5.8m already invested
  - predicted annual savings of 7,600 tonnes/yr

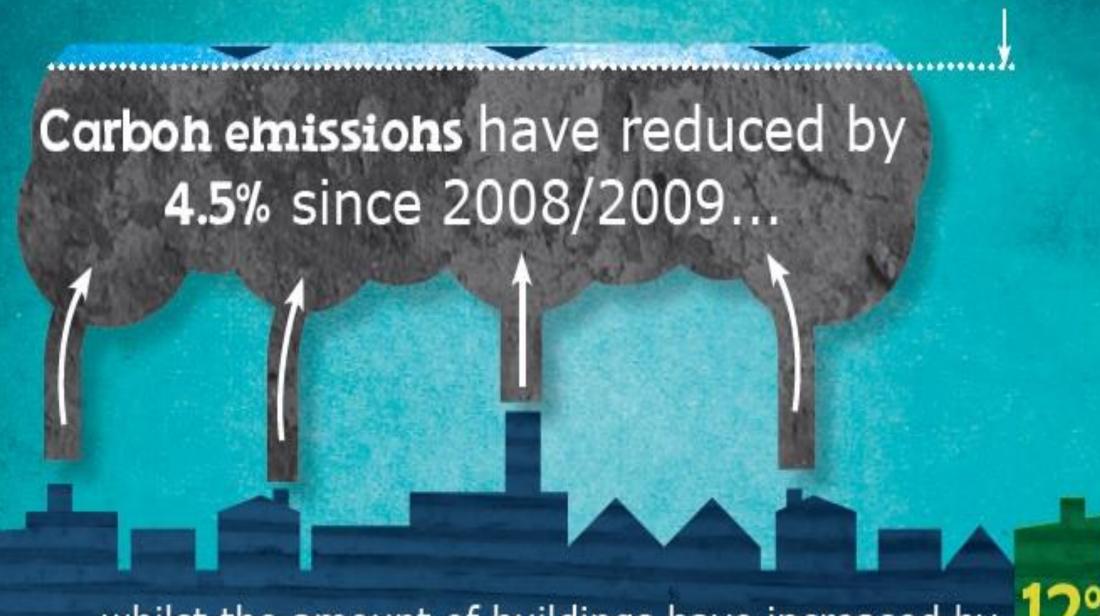


In 2014/2015 our carbon emissions from energy use were

65,366 tohhes



...and would take up the same space as a 10m wide, 25m long and 2m deep swimming pool



...whilst the amount of buildings have increased by 12%

We spend more than £11.5 million per year on ENERGY... That's £349 per student





# Salix RGF4 (Large) Medical School



- Installation of high efficiency chilled water plant to replace steam absorption units.
- 3 off units will give an total installed duty of 2MW.
- Total installed cost of £1.45m
- Annual fuel cost saving £276K
- Annual Carbon saving 933 t CO2



# Sutton Bonington Campus Main Boiler House CHP Plant



- 800kW Combined heat and power plant.
- Total installed cost of £1.35m
- Annual fuel cost saving £275K
- Annual Carbon saving 1,250 t CO2



# Vets School 1000m2 Photo Voltaic Array



- Maximum output of 145kW with estimated annual yield of 127,115kW.
- Total installed cost of £200K
- Annual fuel cost saving of £23K including the Gov't feed in tariff.
- Annual Carbon saving 68 t CO2



# Sutton Bonington 500kW Wind Turbine

- Proposed installation adjacent to our dairy farm, subject to planning.
- Annual yield of 1,600,000kWh or approx'
  15% of the site electrical consumption.
- Installed cost £1.8m
- Annual fuel saving £289K included Gov't feed in tariff.
- Annual Carbon savings 807t CO2





In 2014/15 we generated more than

4,300 tonnes of waste...











### Mixed Recycling

- Plastic sandwich containers
- Plastic bottles
- Plastic cutlery

- Yoghurt pots
- Paper coffee cups
- Paper
- Magazines

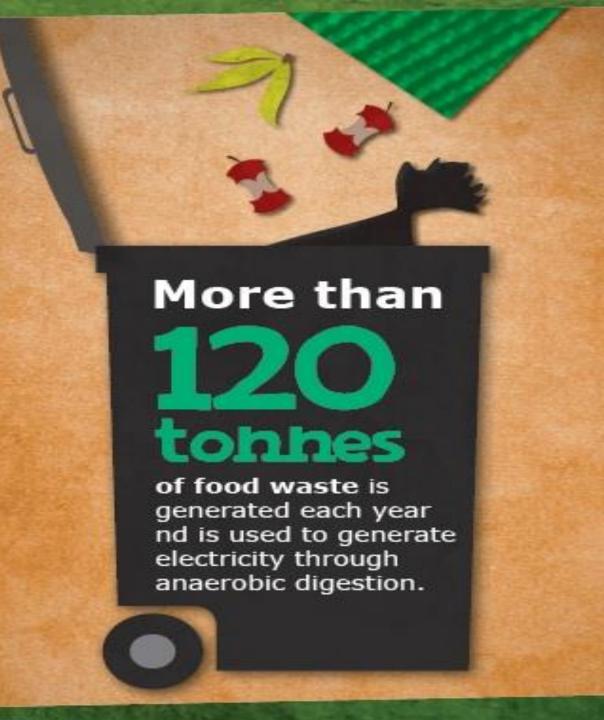
- Cardboard
- Drink cans
- Foil
- Cling film

No food or liquid please



Since 2009 we've seen a reduction in the amount of waste generated per student.













### Investment in cycling facilities



- Covered/secure cycle parking
- Showers
- Staff lockers
- Drying cabinets
- Puncture repair kits
- Bike pumps in cycle sheds
- Fix-It repair stands



**Every day there** are more than push bikes on campus

In recent years we have seen a decrease in the number of people driving to our campuses and an increase in those travelling to our campuses by bike.





2015 2006 13%



### Grounds & Landscaping



Active approach to biodiversity

Green waste used for mulching and compost

Wildflower meadows

Bee hives at King's Meadow

Diamond Wood planting

Sutton Bonington arboretum

13<sup>th</sup> consecutive Green Flag award for

University Park in 2015

Green Flag for Jubilee Campus from

2013 - Present

Arboretum development across

University Park



## Communication & Engagement

- Go Greener Halls Competition
- Joint working with SU
- Roadshows
- Environmental Champions
- Posters, guidance documents and staff training
- Website, social media and e-bulletin















Food waste bins are provided in cafés. Please recycle.



www.nottingham.ac.uk/sustainability





UK China Malaysia

UNITED KINGDOM - CHINA - MALAYSIA

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#### Sustainability













#### Home News

Strategy

Get involved

Teaching and learning

Carbon and energy

Waste and recycling

Sustainable transport

Grounds

Green IT

Sustainable buildings

#### Launch of WARPit reuse network

The three Rs are a well-known concept in waste management, but all too often we tend to concentrate on the third of these - recycle. To help address the reuse issue the University has teamed up with WARPit to launch an online exchange system. University of Nottingham staff can use WARPit to redistribute their school's or department's unwanted furniture, fixtures, fittings and office equipment.



So why have we signed up to use WARPit?

- . It's easy to use
- Reduces our purchasing and disposal costs
- · Increases our recycling and reuse capabilities
- Encourages increased cross-campus and interdepartmental collaboration
- · Helps to reduce carbon emissions

The scheme has been running for a couple of months and we have over 100 members already. In the first two months we have seen £39,000 savings, avoided eight tonnes of waste going to landfill and saved 17 tonnes of carbon by reusing

# Secretary of State for Transport visits world's greenest university

The University of Nottingham hosted the Secretary of State for Transport on Monday 25 January following the announcement that Nottingham City Council had won £6.1m to fund environmentally-friendly transport to reduce carbon emissions and improve air quality.

During the event, The Rt Hon Patrick McLoughlin MP visited Innovation Park on Jubilee campus to meet with Sir David Greenaway, Vice-Chancellor at The University of Nottingham, which has just been voted the greenest higher education institution in the world.



The Rt Hon Patrick McLoughlin MP, Secretary of State for Transport; with Councillor Alan Clark, portfolio holder for energy and sustainability and Sir David Greenaway, Vice-Chancellor of The University of Nottingham"Jubilee is a remarkable campus with sustainability at its heart," said Professor Sir David Greenaway. "Our new GSK carbon neutral laboratory building is the first in higher education to be rated outstanding in its sustainability credentials. And our geo-energy arm at Jubilee is leading the development of the next generation of carbon capture technology, energy storage and solar power," said the Vice-Chancellor.

Recent investment on campus has included a fleet of electric vans for hospitality services and new electric vehicle charge points, free to use, to encourage more hybrid car commuters.

The University has a clear sustainability strategy, supporting a pledge to reduce its carbon footprint, which dovetails with the wider vision of Nottingham becoming the UK's greenest transport city.

Andy Nolan, Sustainability Director at The University of Nottingham added that it was excellent news that Government has "chosen to back Nottingham's ambitious plans for investment in low emission vehicles





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University of Nottingham > News > Press releases > 2015 > July > Nottingham campuses are among the greenest spaces in Britain

#### Nottingham campuses are among the greenest spaces in Britain

















23 Jul 2015 16:06:29.387 PA 115/15

The University of Nottingham has secured a prestigious Green Flag award for both its Jubilee and University Park campuses - for the third year in a row.

Nottingham was the first university to be awarded a Green Flag in 2003 for University Park, and it has continued to rack them up every year since. This is the third year that Jubilee has also received the accolade.

The University is among a record-breaking 1,582 parks and green spaces that will receive a prestigious Green Flag Award today — the mark of a quality park or green space.

#### Additional resources

No additional resources for this article

#### Related articles

Electric vehicles spark energy savings in Nottingham

Wednesday 29th July 2015

Nottingham campuses secure Green Flag status once again

Monday 28th July 2014

Jubilee joins University Park in big Green Flag success for Nottingham's arounds

Tuesday 30th July 2013

Nottingham is number one in the

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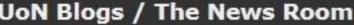
University of Nottingham > Blogs > The News Room > Awards and accolades > Nottingham is number one in the world for sustainability for the fourth time

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// Blog Post

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#### UoN Blogs / The News Room





#### Press releases

provide significant improvement for Crohn's disease, study finds Classics lecturers help businesses get their message across with help from Hercules Growth grant fund launches for Nottinghamshire businesses Nottingham shortlisted for four Times Higher awards

Stem cell transplantation does not

#### Recent posts

Imagining a dementia-friendly University of Nottingham

Off to the palace - a specially made glass corgi carries tiniest

January 22, 2016, by Charlotte Anscombe

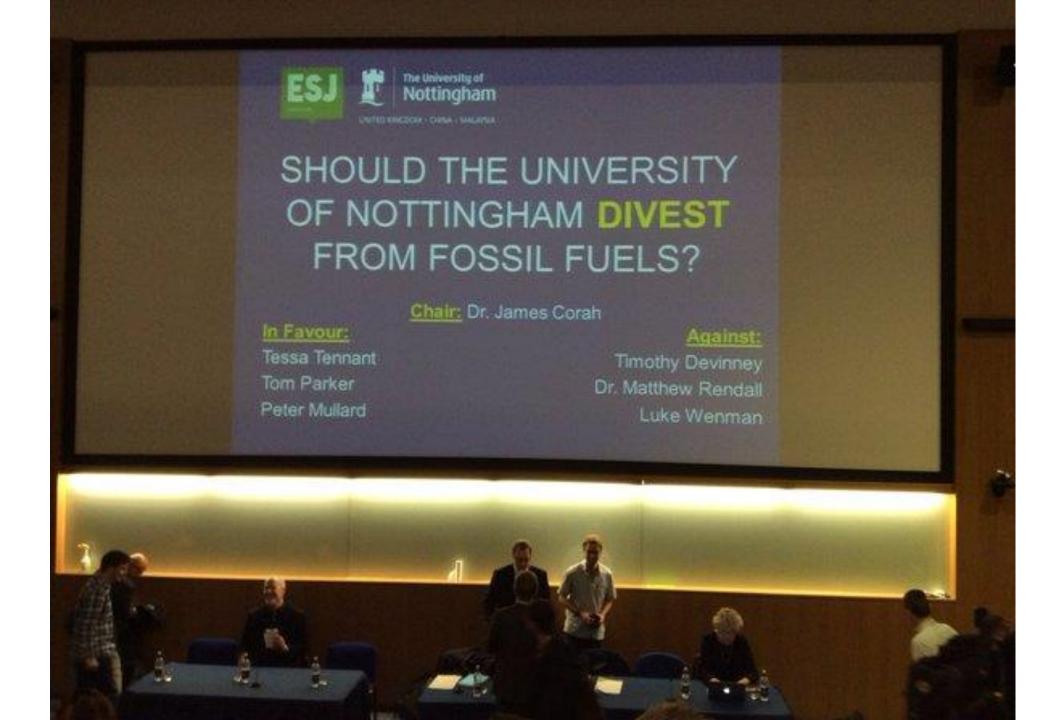
Nottingham is number one in the world for sustainability for the fourth time

The University of Nottingham has been ranked number one in the world for FOURTH time in in a list

# Emerging Trends – Challenges & Opportunities

- Student Experience Linking to Employability
- Smart Campus / Smart Cities & Living laboratories
- Fossil Fuel Divestment







This is Sustainable Nottingham – a monthly bulletin all about some of the key activities nappening across UoN to make the University a more sustainable place to work and study. If you want to receive the bulletin at the start of every month then <u>please subscribe</u> and circulate it to your colleagues. And if you're involved in any "green" initiatives, then tell us about them via <u>sustainability@nottingham.ac.uk</u>.



#### £2 million investment in medical school to save carbon and improve thermal comfort

The University has recently started phase two of improvements to the medical school, which will result in both lower carbon emissions and improve the thermal comfort for users of the building.

Read more...

# Environmental Association for Universities and Colleges

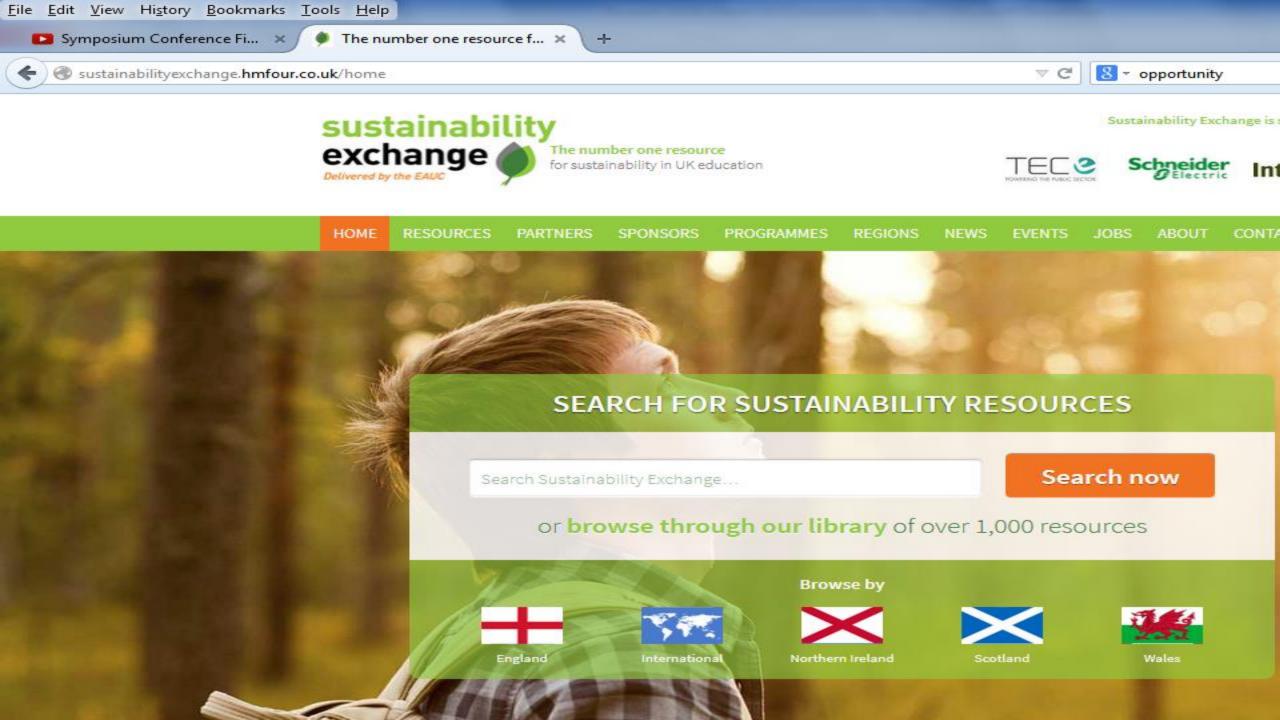


- 215 Universities and Colleges
- 130 UK and International sector bodies
- 48 Companies
- 5116 active contacts

www.eauc.org.uk Founded 1996







### Top Tips



- Focus on how a sustainability programme aligns with your corporate objectives,
  e.g. student experience, employability, financial drivers
- Ensure strong governance and embed it into the 'university machine'
- Build evidence-based business cases
- Measure it and report it
- Tell people, tell people, tell people

### www.nottingham.ac.uk/sustainability/







sustainability@nottingham.ac.uk



UoNSustainability



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