



UNIVERSITY  
OF HULL

# Green Finance Framework



TEAM GB



OFFICIAL PARTNER

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Version 1.1 (November 2023)



# Foreword

In 2027, the University of Hull will celebrate 100 years of service to its city, the Humber region and to society at large. True to the founding values encapsulated in our University motto, *Lampada Ferens* or carrying the light of learning, at the heart of our education and research is an enduring commitment to transforming lives and building a fairer world. The interconnected themes of social justice and sustainability are central to the University's Strategy 2030 and reflect the global challenges that matter most to our students, our staff and our communities.

The Humber is the UK's biggest carbon polluter, with a significant proportion of its jobs in energy-intensive sectors such as petrochemicals, food manufacturing and oil refining. The region's geography also means that it would be among the first to experience the impact of rising sea levels.

Achieving a fair and just transition to a zero carbon economy here in the Humber is not only critical for the future of the region and its people, but also offers the opportunity to serve as a model for other highly industrialised regions around the world. The University is playing a leading role in supporting our region to seize this opportunity.

Applying our expertise in sustainable energy and environmental resilience, we are creating new technologies, addressing skills needs and supporting communities to adapt to the impact of climate change. A pilot installation of the innovative dew point cooling system developed at the University over the last fifteen years is delivering significant reductions in electricity consumption at Hull City Council's data centre, while a further pilot with the Council is demonstrating the potential of University-developed technology to

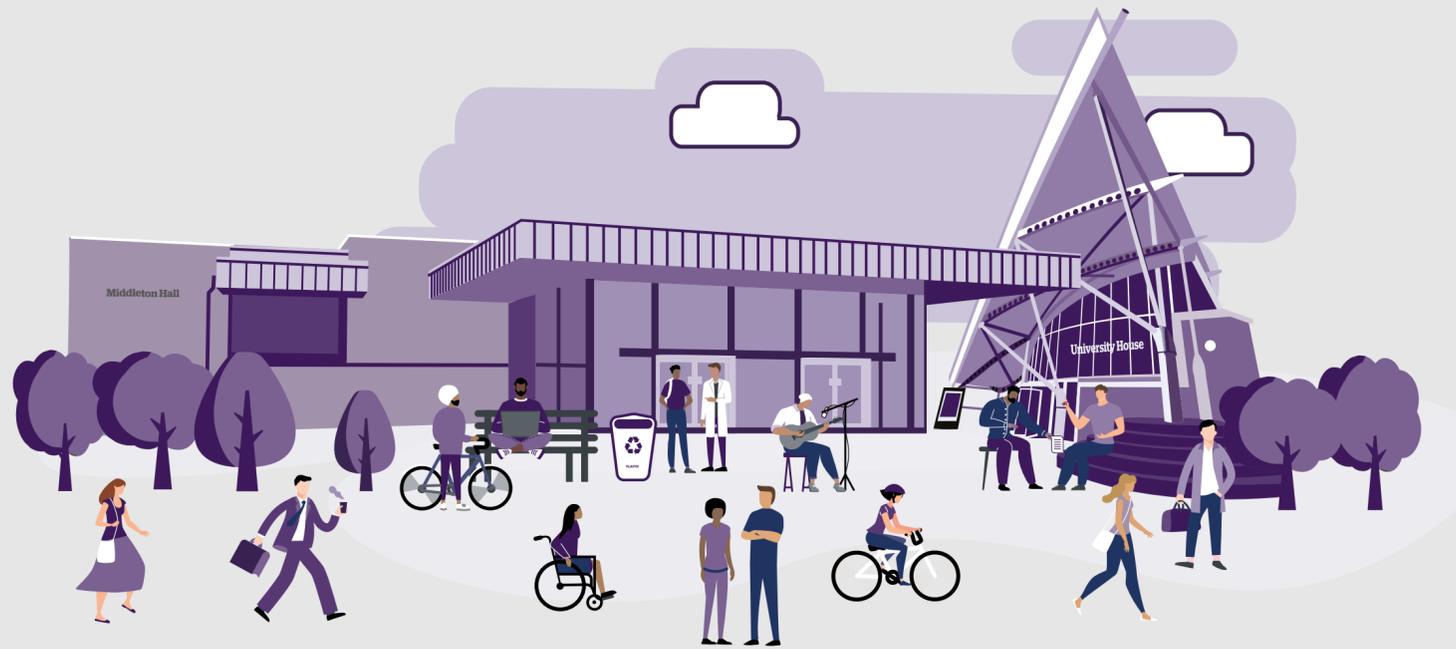
be retrofitted to existing buildings to decarbonise heating systems. As part of the Humber's green transition, the renewable energy sector is growing at pace, with the region's offshore wind cluster already the largest in the UK. This rapid growth creates a skills challenge for the region, but also opportunities for the University's graduates to play a critical role in our region's sustainable economic development. The University's postgraduate degree apprenticeship in Offshore Wind Energy Engineering is the first of its kind in the UK, while our Aura Centre for Doctoral Training in Offshore Wind and the Environment will have trained more than seventy future leaders of the renewable energy sector by 2023. In our Centre for Water Cultures, academics from the sciences, arts, humanities and health sciences are pioneering interdisciplinary research exploring humanity's relationship with water in coastal, estuarine and delta areas and helping communities, from the Humber to the Mekong in Vietnam, develop greater flood awareness and resilience.

We have a responsibility to lead by example and are equally committed to harnessing the University's academic expertise to advance the sustainability of our own campus and operations. Our 2027 net zero target is highly ambitious, but it is backed up by a robust plan developed in collaboration with Siemens Energy and Arup. We have adopted a living lab approach, with the projects being undertaken to reduce our carbon footprint embedded in our education and research. To prepare our students for the role we must each play in supporting a just transition to global net zero, we are integrating sustainability and the UN SDGs into the curriculum

across all of our programmes. The living lab concept, however, takes this further, offering our students the chance to be part of real-life projects contributing to the sustainability of our University—projects which are informed by our expert colleagues and which provide data for use in further research and teaching. Our postgraduate students helped develop our campus digital twin, a resource which is allowing us to model different energy scenarios as we progress towards our net zero target. Projects on sustainable drainage and solar energy generation are providing real-time research data, while a biodiversity audit undertaken by our students with a local nature trust is informing our plans for enhancing the biodiversity of our campus. The development of our estate also reflects our carbon neutral ambitions, with the recent refurbishment of our Energy and Environment Institute being the recipient of a SKA Gold rating for sustainability, the first such rating awarded in Yorkshire.

This Green Finance Framework forms a key part in the delivery of our sustainability plans and our wider Strategy 2030. With investment in world-class and sustainable academic infrastructure, we can magnify our positive impact on society and together shape a fairer, brighter and carbon neutral future for all.

**Professor Dave Petley**  
Vice-Chancellor





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## Introduction

The University of Hull was founded in 1927, opening with just 39 students and 14 'one-person' departments. Today, the University inspires over 14,250 students from more than 100 countries each year. It employs almost 2,100 people and had a turnover in excess of £185 million in 2020/21. A dual-intensive university combining world-leading research with transformative education, Hull acts both as an anchor institution for its region and operates as a global business, engaging with a range of national and international partners who share the University's vision, values and aspirations.

The University's founding benefactors sought to create an institution that would be a 'centre of light and culture': a civic institution providing intellectual leadership, raising educational achievement and supporting the social and economic development of Hull, the Humber region and beyond. This civic role, strong sense of place and passion for social justice remain at the heart of the University's identity. Drawing on the talent of its people and the vitality of its partnerships, the University brings communities together to enrich lives, address the challenges facing its region and share solutions that are transferable across the world.

## University of Hull's Approach to Sustainability

The University of Hull's vision and strategic priorities are set out in Strategy 2030, the University's current ten-year institutional strategy. Sustainability is a central theme of Strategy 2030, with Hull's role in driving progress towards carbon neutrality referenced directly in its vision statement:

**"Motivated by society's challenges and inspired by the power of our global community, we are shaping a fairer, brighter and carbon neutral future"**

Injustices persist across many different areas of society: from the inhumanity of modern slavery to inequalities in education and health to regional disparities in employment opportunities and economic security. Meanwhile, the threats from climate change grow ever more urgent, requiring a rapid and just transition to clean growth and a low carbon future. These are intersecting challenges with no quick solutions, and Hull's Strategy 2030 dedicates the University to the long-term collective effort required to make a difference. Working collaboratively across disciplines and sectors, Hull is seeking to drive creative change at the forefront of environmental sustainability and social justice.

The vision and the timeframe for Strategy 2030 are closely aligned with the targets set by the UN Sustainable Development Goals (SDGs), and this Green Finance Framework (Framework) is similarly aligned to these SDGs. The University is committed to ensuring that all of its students engage meaningfully with their role in shaping a fairer, brighter and carbon neutral future, using the SDGs as a common framework to aid understanding and inspire action.



# University of Hull's Sustainability and Carbon Neutral Strategy

The University has made a commitment that its campus will be carbon neutral in 2027 and has a low-carbon plan that is among the most ambitious among universities globally.<sup>1</sup> The University has already reduced its carbon footprint by 50% from its 1990 baseline<sup>2</sup>, through key infrastructure projects such as the installation of rooftop solar panels and combined heat and power plants on campus. The University has worked with Siemens Energy and Arup to evaluate its energy consumption and develop plans to reduce emissions and implement alternative renewable sources of power. A group of Hull postgraduate students are being trained by Siemens in energy engineering and are conducting research to support the University's carbon neutral plan.

The key principles underpinning the University's plans to achieve a net zero scope 1 and 2 carbon footprint by the end of 2027 include:

**⚡ AVOID** energy consumption through demolition, space utilisation, smart campus controls and baseload energy management and optimisation

**⚙️ REDUCE** energy consumption through deep retrofit and major refurbishment of the estate to introduce energy efficiency measures such as improving building fabric, replacing engineering and building infrastructure and enhancing behaviours through education and robust policies and operating procedures

**✂️ ELIMINATE** fossil fuels by switching all gas consuming infrastructure (such as heating and hot water systems and catering appliances) to fossil fuel-free alternative supplies

**✈️ PRODUCE** renewable energy supplies through on and off campus generation sources, including further rooftop photovoltaics and the creation of solar farms

Minimal carbon offsetting may also be used for a limited period where all feasible measures to reduce carbon emissions further, including grid decarbonisation, have been exhausted. Carbon offsetting projects would be selected based on their alignment with the University's values and Sustainability and Carbon Neutral Strategy and subject to thorough due diligence.

Other elements of the University's Sustainability and Carbon Neutral Strategy include the elimination of single-use plastics, cutting water consumption and increasing biodiversity on campus. Sustainability is also being embedded into curricula, equipping all Hull graduates with the knowledge and understanding to support the global transition to net zero.

A Sustainability Board reporting via a Pro-Vice-Chancellor to the University Leadership Team was established in 2020 to provide oversight and coordinate implementation of the University's Sustainability and Carbon Neutral Strategy.

# 2021 Sustainability awards and achievements



The University is ranked 35th in the 2021 People and Planet<sup>3</sup> league table, up from 47th in the previous edition.

In the 2021 THE impact rankings<sup>4</sup>, the University was ranked overall in the 201-300 group out of 1,115 institutions.

The University was ranked in six categories:

- Good Health & Wellbeing - 201-300 out of 871
- Quality Education - 101-200 out of 966
- Reduced Inequalities - 101-200 out of 669
- Life Below Water - 72 out of 379
- Peace, Justice and Strong Institutions - 65 out of 653
- Partnerships for the Goals - 101-200 out of 1,154

Examples of partnerships, research and knowledge exchange projects and public contributions highlighted in the University's submission to the impact rankings include:

- The University's partnership with The Deep in Hull, which provides educational and research opportunities in the fields of climate change and ocean habitats
- Newton Prize-winning work with colleagues at Mount Kenya University to improve the diagnosis of maternal infections
- The Waterline campaign, a partnership with Marketing Humber which brings together businesses and organisations to accelerate the Humber's transition to a net-zero economy
- The partnership between the University's Wilberforce Institute and Humberside Police on Operation Wilberforce, an initiative that is helping and protecting the victims of modern-day slavery and exploitation in the region
- The University's Plastics Pledge initiative, which encourages students and staff to make changes to reduce their own plastic consumption
- A major study, commissioned by the Living with Water partnership and led by the University, into the impact of the 2007 floods in Hull on people in the city

<sup>1</sup> (a) Hull's 2027 net zero target is among the most ambitious 10% of pledges made by the 1,094 international signatories to the Race to Zero campaign for universities and colleges (partner to the UNFCCC Race to Zero campaign): <https://www.educationracetozero.org/>

(b) Within the UK, Hull received the highest score (joint with University College London) in the ranking of 520 institutions' carbon neutral targets compiled by Students Organising for Sustainability UK, the National Union of Students, University and College Union and People & Planet: <https://www.carbontargets.uk/>

<sup>2</sup> 1990 baseline of 19,090 tCO<sub>2</sub>e compared to 9,670 tCO<sub>2</sub>e in 2021

<sup>3</sup> The People & Planet League is an independent ranking of universities in the UK by environmental and ethical performance, compiled by the student campaign group - [peopleandplanet.org](http://peopleandplanet.org)

<sup>4</sup> The Times Higher Education Impact Rankings is an independent ranking of universities globally that assesses universities against the United Nations' Sustainable Development Goals (SDGs) - [www.timeshighereducation.com/impactrankings](http://www.timeshighereducation.com/impactrankings)

## Rationale for Green Financing

**The University of Hull is looking to establish a Green Finance Framework (Framework) to embed its sustainability strategy into its financing strategy. This Framework enables the University to raise funds which specifically support its environmental objectives and have a positive environmental impact.**

## Framework Alignment and Core Components

**The University's Framework has been drafted in alignment with the internationally recognised ICMA and LMA principles for Green Bonds and for Green Loans. The University will adhere and follow the most recent version of these principles. The Framework supports the University to issue a broad range of green debt instruments, such as bonds, private placements, bank loans and revolving credit facilities.**

**The latest version of these principles (Principles) are:**

- ICMA Green Bond Principles (GBP) – June 2021
- LMA Green Loan Principles (GLP) – February 2021

**The University's Framework has four core components in line with these principles:**

- Use of Proceeds
- Process for Project Evaluation and Selection
- Management of Proceeds
- Reporting



## Principle 1: Use of Proceeds

**Under the University’s Framework, the net proceeds of any green debt instrument will be used to finance and refinance, in whole or in part, both new and existing Eligible Green Project Categories as defined in this Framework and in accordance with the GLP and GBP.**

**The expenditure of any debt instrument can relate to eligible:**

- Operating expenditures
- Capital expenditures
- Acquisitions
- Refinancing
- Asset value of a pre-purchased building/site

Any historical expenditures financed under this Framework could be in relation to all expenditure types noted above, except operating expenditures; the University will not use any proceeds for historical operating expenditures.

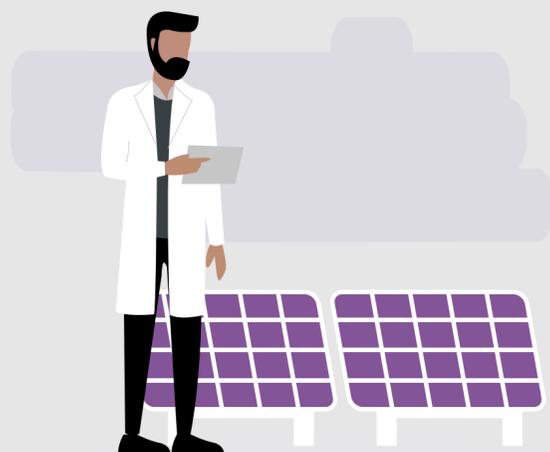
The University will endeavour, on a best-efforts basis, to allocate all net proceeds from any green debt instrument to projects originating within 3 years post its issuance date.

The University looks to align its sustainability strategy and this Framework with the United Nations Sustainable Development Goals (SDGs). All eligible green projects that are funded under this Framework will contribute to these goals as identified below.

Eligible Green Project Categories	Use of Proceeds	Type of Expenditure	Relevant UN SDGs
<b>Green Buildings</b>	<p>Construction, refurbishment and renovation of both new and existing buildings which have received or are expected to achieve a minimum of the following:</p> <ul style="list-style-type: none"> <li>• For all new build developments, the University will achieve a minimum of BREEAM Excellent or equivalent</li> <li>• For all new build extensions, the University will achieve a minimum of BREEAM Very Good or equivalent</li> <li>• For all building refurbishments, the University will achieve a minimum of BREEAM Very Good or equivalent</li> <li>• For all internal fit outs, a minimum of SKA Silver</li> </ul> <p>In addition to the above:</p> <ul style="list-style-type: none"> <li>• All new build developments will achieve a minimum EPC Rating B and / or EIR Rating B</li> <li>• All new refurbishments will achieve a minimum DEC Rating B</li> </ul>	<p>Capital expenditures</p> <p>Refinancing</p> <p>Acquisitions</p> <p>Asset value of a pre-purchased building/site</p>	
<b>Renewable Energy</b>	<p>Implementation of renewable energy projects to generate 19MWp of solar renewable energy across all developments including installation of on-site rooftop solar photovoltaics, installation of on and off-site solar farms. Additionally, electrification of the campus through use of ground or air source heat pumps, with low GWP refrigerants i.e. R-454B, thereby replacing gas consumption</p>	<p>Capital expenditures</p> <p>Acquisitions</p> <p>Asset value of a pre-purchased building/site</p>	 
<b>Energy Efficiency</b>	<p>Implementing energy efficiency measures to reduce energy consumption and GHG emissions through major improvements to building fabric, windows, lighting, building services plant and infrastructure and also intuitive Building Management Systems.</p> <p>The University does not intend to finance equipment and technologies powered by fossil fuels</p>	<p>Capital expenditures</p> <p>Operating expenditures</p>	 

## Principle 1: Use of Proceeds (continued)

Eligible Green Project Categories	Use of Proceeds	Type of Expenditure	Relevant UN SDGs
<b>Pollution Prevention &amp; Control</b>	Development of a waste management strategy and a plan to reduce and maintain landfill to less than 2% of total waste volumes and increase waste recycling to 60% by 2027. Source segregation will be supported and underpinned by the University's Waste Management Plan, which will also incorporate e-waste. Any form of recycling will be limited to mechanical recycling and will not consider any chemical recycling	Capital expenditures Operating expenditures	
<b>Clean Transportation</b>	Investment in campus infrastructure to facilitate sustainable travel including: <ul style="list-style-type: none"> <li>• installation of an EV charging point network across campus to support the UK Government's Green Revolution plan</li> <li>• constructing additional on and off campus bicycle routes and facilities</li> <li>• investing in electric only vehicles across the University's own managed fleet. This will not support any form of loans to staff or students for electric vehicles</li> <li>• encouraging sustainable travel through a travel strategy</li> </ul>	Capital expenditures Operating expenditures	 
<b>Sustainable Water &amp; Wastewater Management</b>	Investment in on-campus instrumented sustainable urban drainage systems, undertaking flood risk assessments to identify climate impacts and potential climate risks and incorporation of building design flood mitigations. Delivery of water saving projects and waste and surface water management  The University will conduct Vulnerability Assessment where necessary to identify realised climate impacts and potential climate risks of such projects and will prepare an Adaptation Plan to address the climate risks identified by the vulnerability assessment	Capital expenditures Operating expenditures	 
<b>Environmentally Sustainable Management of Living Natural Resources &amp; Land Use</b>	Estate developments to deliver embedded environmental sustainability and living natural resources and enhancement of the campus' natural flora and fauna ecosystem which are all in line with the University's Biodiversity Strategy and Action Plan	Operating expenditures	





## Principle 2: Process for Project Evaluation and Selection

**The University Leadership Team is responsible for the academic, corporate, financial, estate, personnel and sustainability management of the University. It derives its authority from that delegated to the Vice-Chancellor by the Council, the University's governing body, and is accountable to the Vice-Chancellor, the University's chief executive officer.**

The University Leadership Team holds overall responsibility for the strategic leadership and management of sustainability within the University. Reporting to the University Leadership Team, the Sustainability Board is chaired by a Pro-Vice-Chancellor and is responsible for overseeing implementation of the University's Sustainability and Carbon Neutral Strategy, monitoring and reporting on the University's sustainability and environmental performance, and ensuring the effective delivery of sustainable development, environmental, travel and transport policies.

The Sustainability Board has established specialist Implementation Groups to lead on different strands of the Sustainability and Carbon Neutral Strategy, including carbon reduction, renewable energy production, waste and water management, biodiversity, purchasing and transport. The Implementation Groups report on a regular basis to the Sustainability Board, which meets on a quarterly basis.

A Capital Investment Committee (the Committee) reporting to the University Leadership Team provides oversight and control of all University capital expenditure, ensuring that investments align to the University Strategy and that projects are monitored and evaluated effectively. As part of its remit, the Committee will govern the implementation and execution of all funds raised under the University's Green Finance Framework. The Committee is chaired by the Chief Finance Officer and its membership includes representatives of the University Leadership Team, Sustainability Board and finance, IT and estates and facilities directorates. The Committee meets quarterly.

The University's IT Programme Board and Estate Programme Board report to the Committee to provide specialist scrutiny of projects. This will include advising on alignment with the Green Finance Framework. As part of the business case process, standard practice for the University is to undertake project-level ESG analysis and ultimately development of Environmental and Social economic impact assessments, both of which form an integral part of the project approvals and implementation phases of a project.

**With specific regard to the University's Green Finance Framework, the Committee will be responsible for:**

- reviewing and updating the University's Framework to reflect changes in strategy or updates to market standards and principles
- reviewing and approving the allocation of eligible projects to the categories identified in the Framework, monitoring ongoing eligibility, and ensuring that projects that no longer comply with the eligibility criteria or have been disposed of are excluded and replaced on a best-efforts basis
- reviewing and addressing any environmental and social risks associated to eligible projects during the project evaluation and selection phase
- monitoring projects against defined performance measures and overseeing annual allocation and impact reporting
- monitoring the implementation of project communication strategies

The Committee will provide assurance to the University Council that the Framework is managed and monitored appropriately via quarterly reports to the University Leadership Team and the Finance and Investment Committee of Council. The Committee will also contribute to the ESG report prepared annually by the University's Sustainability Board.

## Principle 3: Management of Proceeds

Managing and monitoring the proceeds issued under the University's Framework is very important. The Committee will have a documented and structured process to determine how the proceeds will be matched and monitored to specific eligible projects. Proceeds issued under this Framework will be held in an isolated account until a 'call' is made to use the funds. The 'call' will form part of the approval process required by the Capital Investment Committee. Unallocated proceeds will be held as cash deposits or in sterling denominated money market funds in accordance with the University's treasury management policy or used for short-term repayment of other debt facilities before allocation to eligible green projects.

The proceeds from each green financing instrument will be separately accounted for, reconciled, and reported through the Capital Investment Committee. The proceeds will be managed on a non-portfolio basis.



## Principle 4: Reporting

**The University will annually, and until the maturity of each green financing instrument, publish an annual Sustainability Report on its website. The report will include:**

### Allocation Reporting

- Net proceeds outstanding from each green financing instrument
- Amount and description of proceeds allocated to each eligible green project
- Amount and description of how any unallocated proceeds have been held
- A list of all eligible green projects financed under this Framework to date

### Impact reporting

- The University will publish its Sustainability Report along with its annual accounts, where it will share its progress on all projects under this Framework and disclose its environmental impact with quantitative metrics where feasible. A range of different indicators and metrics will be used as per the table below.
- The University will look to the latest version of ICMA's 'Harmonised Framework for Impact Reporting'<sup>5</sup> for its impact reporting, which outlines ICMA's general core principles and reporting recommendations.

Eligible Green Project Categories	Potential Reporting Metrics
<b>Green Buildings</b>	<ul style="list-style-type: none"> <li>• Building certification (BREEAM or equivalent certification rating obtained)</li> <li>• Energy consumption (kWh of energy per m<sup>2</sup>)</li> <li>• Carbon emissions (tCO<sub>2</sub>e) and/or carbon intensity (kgCO<sub>2</sub>e/m<sup>2</sup>)</li> <li>• Energy savings achieved (kWh/m<sup>2</sup>)</li> <li>• Energy Performance Certificate (EPC)/ Display Energy Certificate (DEC) ratings achieved on completion</li> </ul>
<b>Renewable Energy</b>	<ul style="list-style-type: none"> <li>• On-site renewable electricity generated (kWh)</li> <li>• Offsite renewable electricity generated (kWh) backed by relevant certificates</li> <li>• Total annual renewable energy generation (MWh)</li> <li>• % of energy sourced from certified renewable/green tariffs</li> <li>• Annual GHG emissions reduced/avoided (kgCO<sub>2</sub> p.a.)</li> </ul>
<b>Energy Efficiency</b>	<ul style="list-style-type: none"> <li>• Total energy consumption (kWh)</li> <li>• Total energy intensity (kWh/m<sup>2</sup>)</li> <li>• Scope 1 and 2 emission reductions achieved against baseline (tCO<sub>2</sub>e)</li> <li>• Carbon emissions intensity and/or reduction (kg CO<sub>2</sub>e/m<sup>2</sup>)</li> <li>• Annual GHG emissions reduced/avoided (kgCO<sub>2</sub> p.a.)</li> </ul>

Eligible Green Project Categories	Potential Reporting Metrics
<b>Pollution Prevention &amp; Control</b>	<ul style="list-style-type: none"> <li>• Annual recycling rate (%)</li> <li>• Waste diverted from landfill (tonnes)</li> <li>• Waste per FTE of employee and student headcount</li> <li>• Annual GHG emissions reduced/avoided (kgCO<sub>2</sub> p.a.)</li> <li>• % of non-hazardous demolition waste by weight diverted from landfill</li> </ul>
<b>Clean Transportation</b>	<ul style="list-style-type: none"> <li>• Number and type of clean transportation facilities installed</li> <li>• Number of EV charging points installed</li> <li>• Annual GHG emissions reduced/avoided (kgCO<sub>2</sub> p.a.)</li> <li>• % of University of Hull's directly owned fleet that are zero/low emission vehicles</li> <li>• Number of bicycle spaces</li> </ul>
<b>Sustainable Water &amp; Wastewater Management</b>	<ul style="list-style-type: none"> <li>• Number of water conservation measures installed</li> <li>• Volume of water saved/reduced (m<sup>3</sup>)</li> <li>• Total annual water consumption (m<sup>3</sup>)</li> </ul>
<b>Environmentally Sustainable Management of Living Natural Resources &amp; Land Use</b>	<ul style="list-style-type: none"> <li>• £ spend on projects to increase biodiversity such as green roofs, sustainable urban drainage systems, living walls and garden spaces</li> <li>• Amount of space created/allocated to such investments (m<sup>2</sup>)</li> <li>• Area allocated to improvement projects to enhance on campus flora and fauna (m<sup>2</sup>)</li> </ul>

<sup>5</sup> <https://www.icmagroup.org/sustainable-finance/impact-reporting/>

## External Review

**Sustainalytics was appointed to conduct a Second Party Opinion of the original Framework, Version 1 issued in February 2022, and confirmed the alignment of the University's Framework to the GBP and the GLP as published by ICMA and the LMA.**

The University intends to obtain an external limited assurance report from an independent third party regarding the allocation of net proceeds from any green debt instrument which is issued under this Framework.



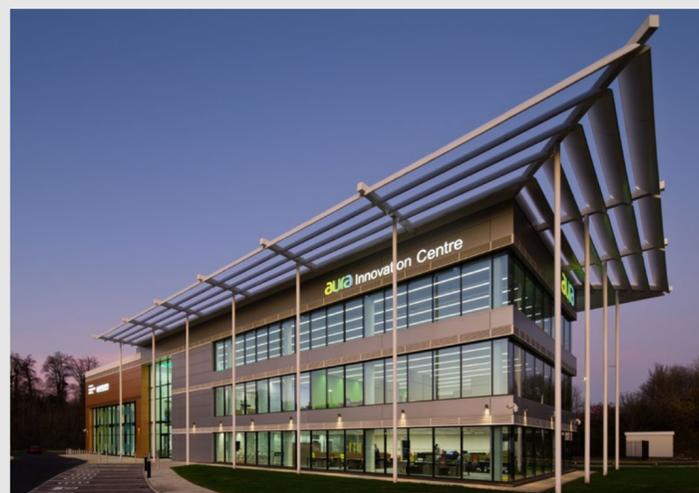
# Appendix - Case Studies

## Sustainable Development Case Studies

### 1. Introduction

The University of Hull is highly experienced in delivering major development projects, with a strong focus on delivering high level sustainability and environmental performance standards.

The following case studies are intended to demonstrate recent experience in delivering sustainable major capital development projects, all of which were delivered on time and on budget.



### 2. Completed Projects

#### 2.1 Aura Innovation Centre

Located at Bridgehead Business Park, positioned at the foot of the iconic Humber Bridge, the Aura Innovation Centre (AIC) is the University of Hull's low carbon innovation centre. The AIC provides easy access to cutting edge facilities, specialist funded support and a space to innovate and collaborate by connecting businesses, manufacturers, developers and maintenance skills providers with the research power of the University of Hull low carbon experts.

- The project is fully operational and was handed over in November 2019 at a cost including land purchase of £11.3m.
- The GIA of the building is 2767m<sup>2</sup> and consists of high-end office, meeting and conference space, and state of the art virtual and augmented reality facilities all centred around cutting edge research space.
- The building achieved BREEAM Excellent and includes an array of sustainability features, including roof top solar photovoltaic arrays, use of innovative construction methods to reduce waste and use of highly sustainable materials, in addition to supplementary high efficiency electrical and mechanical systems.



## 2.2 Westfield Court

Located on our main Cottingham Road Campus in Hull, this £130m Public Private Partnership project, delivered with our accommodation partners UPP, is the single biggest development in Hull since the construction of the Humber Bridge.

Programme speed of delivery and achieving excellent sustainability credentials were key to the success of this project.

- The final phase was handed over in August 2019 at a total project cost of £130m through a PPP arrangement with our development partners UPP.
- The project essentially delivered a mini town across 11 different buildings, consisting of circa 1,500 student rooms across a blend of town houses, en-suite cluster flats and self-contained studios, social spaces, kitchens, laundry, offices and café spaces.



- The development achieved BREEAM Excellent and includes an array of sustainability features, including two large Combined Heat and Power Engines, district heating system, use of innovative construction methods to reduce waste and use of highly sustainable materials.
- The project also included the implementation of a Sustainable Urban Drainage system (SUDS), which has now led on to the formation of a research project and partnership, bringing together Estates professionals, the University's Energy and Environment Institute, Hull City Council flood specialists and senior members of the planning authority. The research outcomes from this spin off project are used to inform planning policy and latest thinking on a national scale on how to reduce/mitigate flood risk through innovative use of alternative drainage systems.



## 2.3 Energy & Environment Institute

The £2m redevelopment of the old Chemical Engineering building, completed in September 2021, involved a major refurbishment of an existing building which now houses the University's prestigious Energy and Environment Institute.

The project provides 1000m<sup>2</sup> of new office, postgraduate taught and research space with major emphasis on environmental performance. The space creates an environment that actively facilitates collaboration between members of the research team, enabling informal discussions that lead to the next research paper, or policy or research project proposal.

- The University decided to pioneer the new refurbishment-related sustainability standard SKA and achieved the highest rating possible, 'SKA Gold', becoming the first University in the region to achieve such a standard.
- SKA Gold focuses on environmental performance of buildings, incorporating the well-being of occupants. Therefore a strong focus across biophilic design, biodiversity, social interaction, air quality, daylight, recycled materials content, reuse of materials and materials that have very low environmental impact and high efficiency systems were all incorporated in the design.
- The project was highly commended at the Education Estates awards ceremony in 2021 for Refurbishment of the Year. The project was submitted for a RICS sustainability award in February 2022.



## 2.4 Brynmor Jones Library

This project constituted a major refurbishment of the dilapidated and outdated University of Hull main library. The eight storey building was completely refurbished linking the East and West tower including a new two storey wrap around podium at ground level. All works were undertaken whilst maintaining full library services to students.

- The project was handed over in 2015 with a final project outturn cost of £28.5m.
- The building provides 'the' central learning hub on campus and is always a vibrant and busy space. The library is revered in the sector and is often visited by other institutions looking for best practice in developing their own library facilities.
- In accordance with Article 'A1 Technical Description' through completion of a S-BEM calculation and associated air test, the building fully meets the energy efficiency performance rating as defined within BREEAM (Very Good) ENE01.



## 2.5 Allam Medical Building (formerly Health Campus Building)

This project saw the development of a new building dedicated to health education and research, including facilities for the Hull York Medical School. Facilities include teaching spaces, lecture theatre, café, meeting/interview spaces, postgraduate research spaces, and state of the art 'true to life' hospital wards, including an operating theatre.

- The project achieved Practical Completion in July 2017, with a final project outturn cost of £28.3m.
- In accordance with Article 'A1 Technical Description' through completion of a S-BEM calculation and associated air test, the building fully meets the energy efficiency performance rating as defined within BREEAM (Excellent) ENE01
- Her Majesty the Queen officially opened the building on 16th November 2017.

The facility is fully operational and is a core facility for training doctors, nurses, midwives and allied health professionals within the region.



## 2.6 The Courtyard (Student Residences)

This project constituted a major step change in the University of Hull's accommodation offer.

The development provides 562 high-quality, self-catered, en-suite study bedrooms, with adjacent student social spaces, kitchens and ancillary spaces.

- The project achieved sectional completion in September 2016 and full Practical Completion in December 2016. The final project outturn cost was £29.6m.
- The project was able to improve the biodiversity of the campus.
- In accordance with Article 'A1 Technical Description' through completion of a S-BEM calculation and associated air test, the building fully meets the energy efficiency performance rating as defined within BREEAM (Excellent) ENE01.

The development is fully operational and is a popular venue of choice for students wishing to stay in accommodation in Hull.



## 2.7 Middleton Hall Auditorium

The project constituted a full refurbishment of the original listed 1960s performance venue.

The works included new extensions to the South and West elevations, to facilitate improved access for all. The auditorium has been fully refurbished, with new seating, staging, lighting and performance equipment. The project also included the formation of new recording studios, a new café area, improved circulation and student breakout facilities.

- Phase 1, the formation of recording studios and auditorium was delivered with final outturn costs achieved at £2m.
- Phase 2, an enabling demolition contract was completed with final outturn costs of £352k.
- Phase 2a, the main works achieved Practical Completion on 7th September 2016.
- The total project outturn cost was £9.2m.
- In accordance with Article 'A1 Technical Description' through completion of a S-BEM calculation and associated air test, the building fully meets the energy efficiency performance rating as defined within BREEAM (Very Good) ENE01.

The building is not only a central music arena for teaching and research but also a conference and general event facility in the city of Hull; a popular venue of choice for many clients.



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