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## University of the Arts London Environmental Report



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**Approved by:** Ian Lane, Associate Director of Sustainable Operations

Version	Date	Notes	Author
1	29 <sup>th</sup> Nov 2017	First version	Rebecca Smart
2	Feb 2019	Updated to reflect 2017-18	Rebecca Smart
3	March 2020	Updated to reflect 2018-19	Rebecca Smart

## Version and Audit Control Sheet

Version	Date	Amended sections	Author	Approved by
1	Nov 17	<ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Senior Management Review</li> <li>3. Environmental Policy Statement</li> <li>4. Environmental Management System</li> <li>5. Legislation</li> <li>6. Aspects and Impacts</li> <li>7. Objectives and Targets 2017/2018</li> <li>8. Annual Performance: Objectives and Targets 2016/2017 Review</li> <li>9. Future Plans</li> </ol>	Rebecca Smart  (Energy Projects Support Officer)	Ian Lane  (Head of Sustainability)
2	Feb 19	All sections updated with most recent data and information		
3	March 20	All sections updated with most recent data and information		

## Executive Summary

A Workplace Travel Plan is a long-term site management strategy designed to promote access to/from a workplace using sustainable modes of transport, such as walking,

This report is a review of the University of Arts environmental performance during the 2018/19 academic year (the “reporting period”) and a summary of the actions UAL are currently undertaking to achieve outstanding environmental stewardship. This review describes our environmental monitoring data, key performance indicators and adherence to relevant compliance standards in those areas where we have the greatest potential to impact upon on the environment. Our energy usage, water consumption, waste generation, and transport emissions are summarised (Scope 1, 2 & 3 emissions), and our performance is compared to our Environmental Policy (v6) and our Carbon Management Plan (v8).

## Key Findings

During the 2018/19 Academic Year, UAL:

### Consumed

- 17,392,684 kWh of mains electricity
- 15,102,825 kWh of natural gas
- 1,251,840 kWh (104,320 litres) of fuel oil
- 3,758,500 kWh of steam and hot water (CHP)
- 131,666 cubic metres of mains water

### Recycled:

- 765 tonnes of waste (56% of total)

### Business Travel:

- 1,006,422 km on business travel by rail
- 8,683,211 km on business travel by air

### Student and Staff Commute:

- Travelling by train is the most common transport method for staff (35%), followed by tube (31%) and cycling (12%)
- Travelling by tube is the most common transport method for students (44%), followed by bus (22%), walking (17%)

### Supply Chain:

- Procurement of services by the University such as general business services, food and catering, construction and information and communication technologies produced 58,388 tonnes CO<sub>2</sub>.

Carbon emissions from direct emission sources from the University (scope 1 and 2) such as fuel combustion and purchasing electricity generated a total of 7,370 tonnes of CO<sub>2</sub> (e) which represents a 41% decrease since the baseline year of 2011/12. The latest emissions data (2018/19) from indirect sources (scope 3) through the procurement of services and staff and student commuted generated a total of 61,661 tonnes of CO<sub>2</sub>, which is an increase of 8% on the previous academic year and is largely due to the increase in emissions from supply chain emissions.

## 1. Introduction

The University of the Arts London is committed to achieving outstanding environmental stewardship. Our Strategic Plan (2016-2022) identifies reducing our carbon footprint as strategic value and “as a creative university, our future is formed by the imagination, energy and skills of our staff, students, alumni and of the many academics from other institutions who work closely with us each year”. The Environmental Policy is signed off by the University’s Vice Chancellor, Sir Nigel Carrington, who has also signed the People & Planet Green Education Pledge. You can view his presentation about what sustainability means to UAL in the context of sustainable development [here](#).

### **Our Environmental Policy Statement states that UAL wishes to:**

- Minimise the adverse environmental impact of the delivery of its services;
- Better manage its resources taking into account environmental impact;
- Implement environmental best practice procedures throughout the University;
- Continually improve its environmental impact performance; and
- Contribute generally to the improvement of the local, national and global environment

At UAL, sustainability has become a key part of learning and operations, with many courses dedicating time and resources to the teaching of sustainable practices and ideas while UAL's carbon emissions are falling. In 2012, UAL was ranked 127th in the University Green League. With the support of many colleagues from across the institution UAL improved it's ranking to 9th in the league table and the 4<sup>th</sup> most sustainable university in London. Whether is well attended Green Week events, shrinking our carbon footprint, ethical investing or education for sustainable development UAL can be rightly proud of its achievements to date.

### **The challenge of going further and collective intervention**

UAL has agreed a five-year sustainable business programme, The Sustainability Manifesto (Figure 10). It is designed to address the key environmental, social and ethical challenges facing UAL. The UAL Sustainability Manifesto is our way to help build a sustainable future by being an institution that enables our stakeholders to have a positive impact on wellbeing, communities and the planet through all that we do.

These publicly stated aims reflect the minimum expectations of our stakeholders, notably our staff, students and alumni; employers, funders, partners, suppliers, regulators and the

wider community. In this respect we have established the following structure for implementing our sustainability agenda:

The Sustainability Advisory Panel, chaired by the CEO, is tasked with overseeing the evolution and implementation of the UAL Sustainability Manifesto and for reporting to the University Executive Committee. Specific actions are developed through the multifunctional Sustainability Working Group.

The University's Environmental Management System (EMS) and Energy Management System (EnMS) are integral components of our Sustainability Manifesto, through which we will demonstrate our commitment to achieving outstanding environmental stewardship.

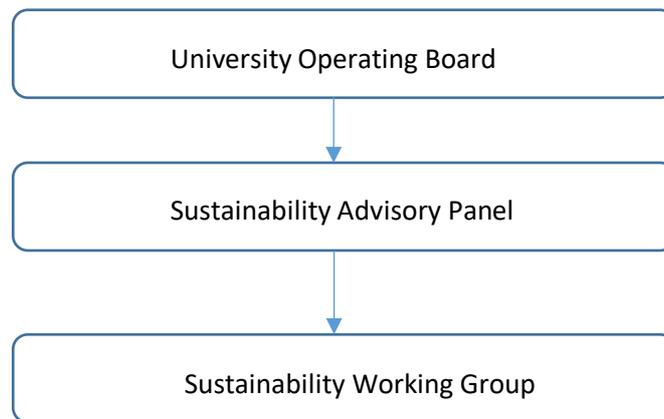


Figure 1: Decision making process

## 2. Senior Management Review

The suitability of the University's Environmental Management System is regularly assessed by the Sustainability Advisory Panel, chaired by the CEO. The assessment is undertaken to the requirements of the ISO 14001 environmental standard and the ISO50001 standard and is pivotal by way of ensuring that the EMS and EnMS is fully implemented and effective. The assessment is structured in accordance with the following agenda:

- Introduction
- Actions from Previous Meeting
- Environmental Policy Statement
- Significant Environmental Aspects, including the reporting of non-conformities
- Objectives and Targets
- Current Performance
- Improvement Opportunities / Invest to Save Initiatives
- Environmental Incidents /Corrective and Preventative Action
- Internal Audits
- Legal Compliance
- Communications (Internal / External)

- Training and Awareness
- Recommendations

The Head of Sustainability is responsible for providing the Advisory Panel with a comprehensive report to enable an effective review of the EMS to be undertaken. The Group will address any issues arising from the report, and determine whether there is a need for any changes to the environmental policy, the objectives and targets, or any other element of the EMS. The minutes of the review are maintained as an EMS record and are available from the Head of Sustainability. The most recent Management Review was undertaken in February 2020.

### **3. Environmental Policy Statement**

The University's current [Environmental Policy statement](#) is valid until 2021 (subject to annual review by the Sustainability Advisory Panel).

### **4. Environmental Management System**

Our EMS has been designed in accordance with the criteria set out in the ISO 14001. The structure of the EMS follows the three tiered approach common to most ISO standards each stage of which incorporates the cyclical process of:

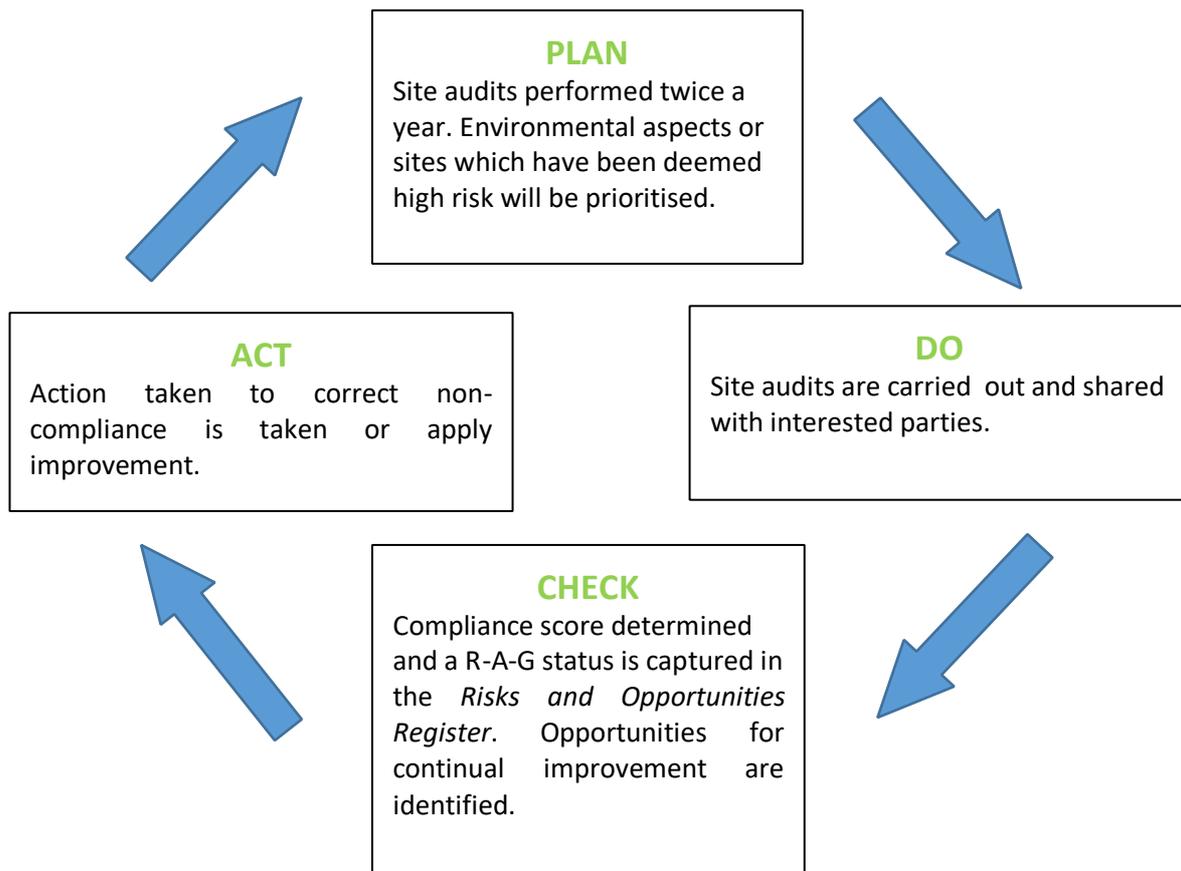


Figure 2: Plan – Do – Check – Act framework followed in the EMS.

Our EMS scope covers operations, plant rooms and equipment managed directly by the University

Estates Department. The scope excludes facilities not owned or controlled by UAL, for example College activities related to teaching, research and learning. Halls of Residences not owned by UAL are also excluded. The included locations cover the 6 Colleges and 2 Halls of Residences (including the new Gardens House). Further details of the scope can be found [online](#).

In addition to the formal annual assessment, the EMS is included in the UAL Risk & Audit Committee and therefore subject ongoing monitoring and improvement.

UAL is certified with an Energy Management System (EnMS) - the ISO 50001 Certificate is verified by externally appointed UKAS accredited bodies and is valid for three years subject to annual “surveillance audits” each March.

## 5. Legislation

The foundation of any EMS is an understanding of, and compliance with, relevant environmental legislation and other compliance obligations. As such, we have developed a legal compliance register applicable to the University's activities that is stored on the Legislation Update Service, our register alerts key stakeholders to amendments to UK legislation. The Energy Projects Support Officer is responsible for ensuring that relevant environmental licences, registrations, and authorisations are in place, and for evaluating compliance with relevant legislation and other requirements. The University has recorded no unauthorised contravention of environmental legislation, and has not been responsible for any pollution incidents during the reporting period.

## 6. Aspects and Impacts

Our EMS incorporates an assessment of all aspects of the University's activities that have the potential to impact upon the environment. Identified aspects cover 7 categories and have been identified and have been evaluated in terms of their potential environmental impact (which may be positive or negative). 'The Risks and Opportunities Register' evaluates the potential consequences associated with each aspect, and the likelihood of such an occurrence. The full evaluation criteria and method is explained in the register. This includes a consideration of relevant legislation, potential environmental damage, current controls, and impact of emergency situations. From this exercise, those aspects that have the greatest potential to adversely impact upon the environment have been identified, and appropriate objectives and targets developed to minimise those impacts.

**Our "Significant Aspects" have been determined as below:**

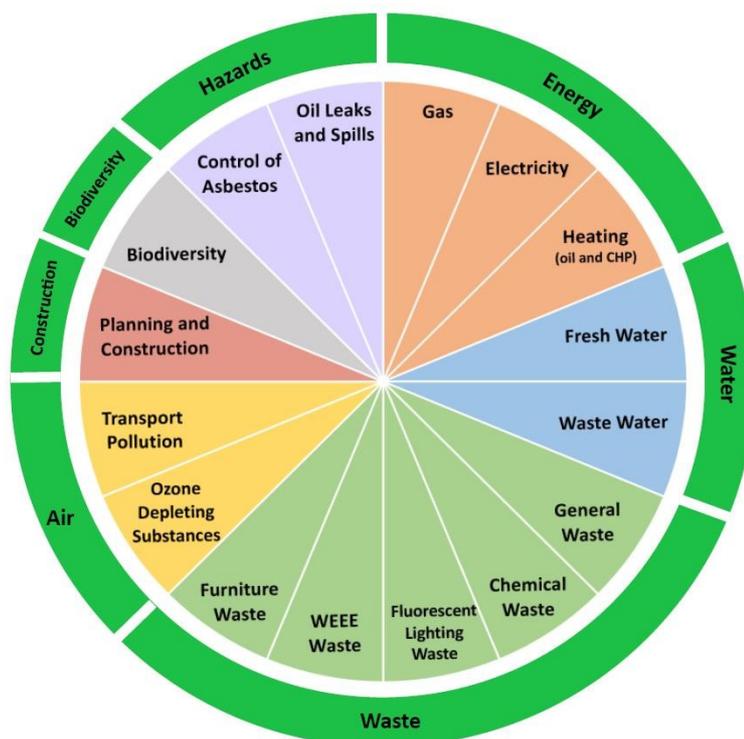


Figure 3: The significant aspects of UAL's EMS

## 7. Objectives and Targets 2018/2019

We have derived the following objectives and targets:

Objective	Target
<b>O1</b> <b>Energy</b> - Maximise efficient use of energy, and reduce greenhouse gas emissions.	<ul style="list-style-type: none"> <li>- Reduce carbon emissions by 43% by July 2020.</li> <li>- Reduce actual kWh consumption (compliance obligation through ISO 50001).</li> </ul>
<b>O2</b> <b>Water</b> - Maximise efficient use of water.	Reduce consumption by 43% by July 2020.
<b>O3</b> <b>Air</b> - Prevent air pollution from University activities	Zero leakages of ozone depleting substances and F-Gases.
<b>O4</b> <b>Waste</b>	<ul style="list-style-type: none"> <li>- 80% recycling target.</li> <li>- Continue to send zero waste to landfill.</li> </ul>
<b>O5</b> <b>Transport</b>	<ul style="list-style-type: none"> <li>- Reduce carbon emissions from student and staff commute by 43%</li> <li>- Reduce the number of deliveries</li> <li>- Increase staff/student using season ticket loan scheme</li> <li>- Increase staff/student awareness of Workplace Travel Plan</li> <li>- Increase the no. of video conferencing sessions (Skype for Business, Microsoft Teams)</li> </ul>
<b>O6</b> <b>Promote Biodiversity</b>	<ul style="list-style-type: none"> <li>- Carry out annual inspections</li> <li>- Meet BREEAM Outstanding for developments (see UAL's Biodiversity Action Plan for details)</li> <li>- Follow BRE's Green Guide (see UAL's Biodiversity Action Plan for details)</li> <li>- No peat or weathered limestone to be used in buildings</li> <li>- Increase opportunities for biodiversity through green roofs or suitable alternative (see UAL's Biodiversity Action Plan for details)</li> </ul>
<b>O7</b> <b>Construction</b>	All buildings over £1M securing BREEAM 'outstanding' and all refurbishments over £0.5M to achieve SKA 'gold'.

	A 43% reduction in carbon emissions from construction (from the peak year in 2016/17) by July 2020.
<b>O8 Oil Leaks and Spills</b>	Zero leakages or spills of fuel oil and comply with COSHH regulations.
<b>O9 Sustainable Procurement</b>	Continue to ensure that our supply chain adheres to the Modern Slavery Act and the Principles of Responsible Investment
<b>O10 Community Involvement</b>	<ul style="list-style-type: none"> <li>- Inform: To use the communications framework of the University to inform our staff of sustainability progress, challenges and initiatives across the estate, in a timely manner.</li> <li>- Engage &amp; Inspire: Activities and communications will be engaging and encourage staff and students to get involved.</li> <li>- Increase involvement: All activity will be centred around driving involvement in our Sustainability Working Group. Activities and communications will endeavour, where possible, to forward the aims of the Sustainability Working Group and other sustainability initiatives across the university.</li> </ul>

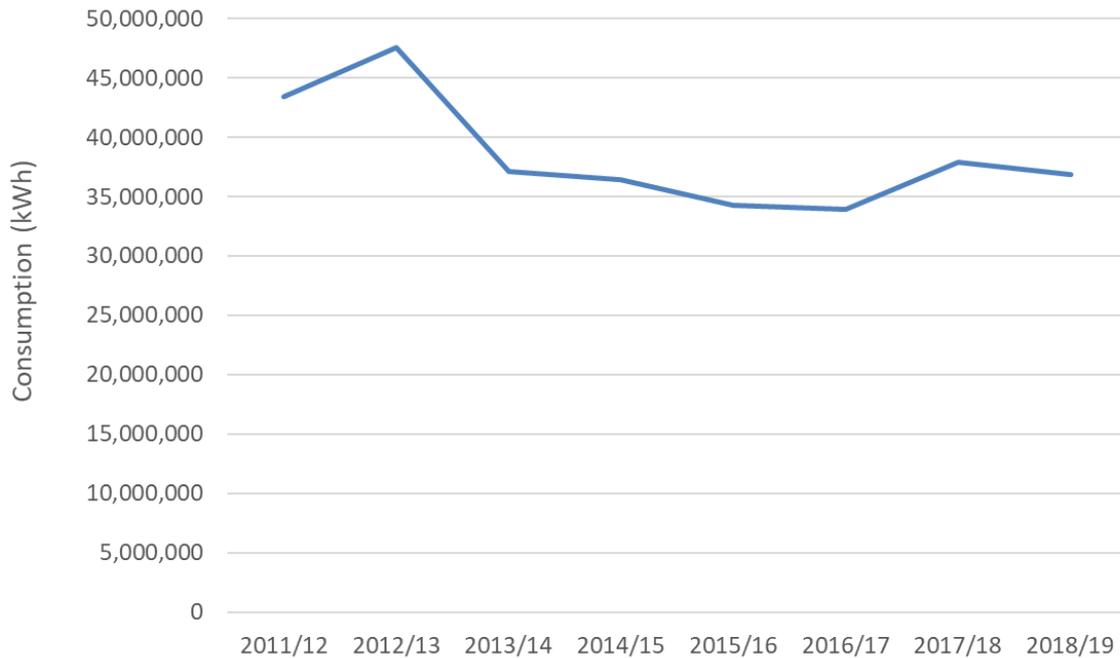
## 8. Annual Performance: Objectives and Targets 2018/2019 Review

Performance in terms of our objectives and targets for the reporting period are as follows:

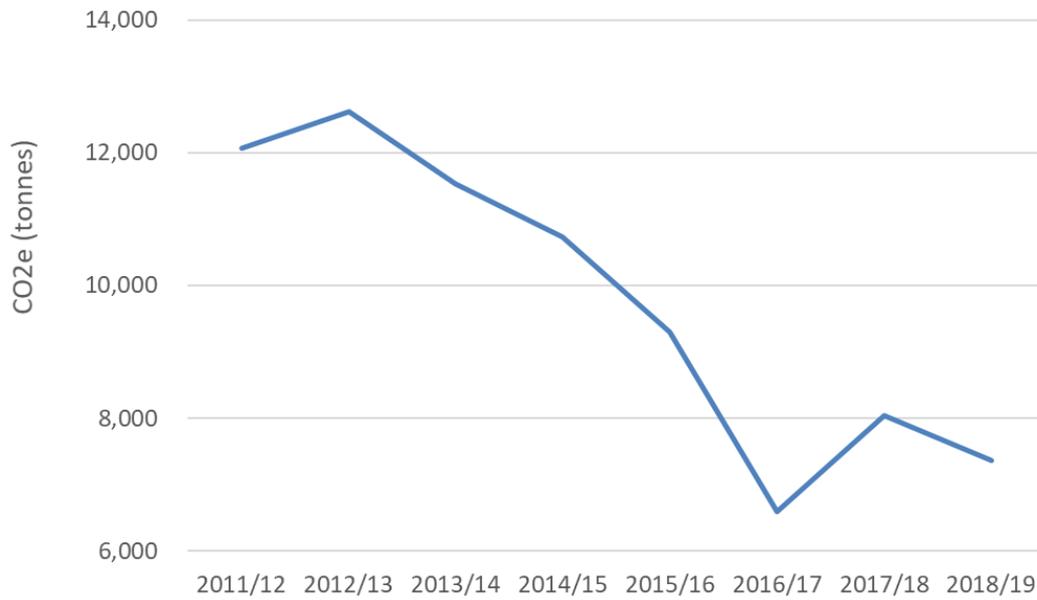
### Objective O1: Energy Consumption and Carbon Emissions

The University's energy related emission data is reported in accordance with the DEFRA conversion factors published each year. We aim to reduce our energy related CO<sub>2</sub> emissions by 43% of our 2011/12 base year emissions by 2020. In 2018/19 a total of 7,370 tonnes of CO<sub>2</sub> (e) were produced which represents a 41% decrease since the baseline year of 2011/12. The total energy consumption and associated carbon emissions (CO<sub>2</sub>e) are monitored and reported annually.

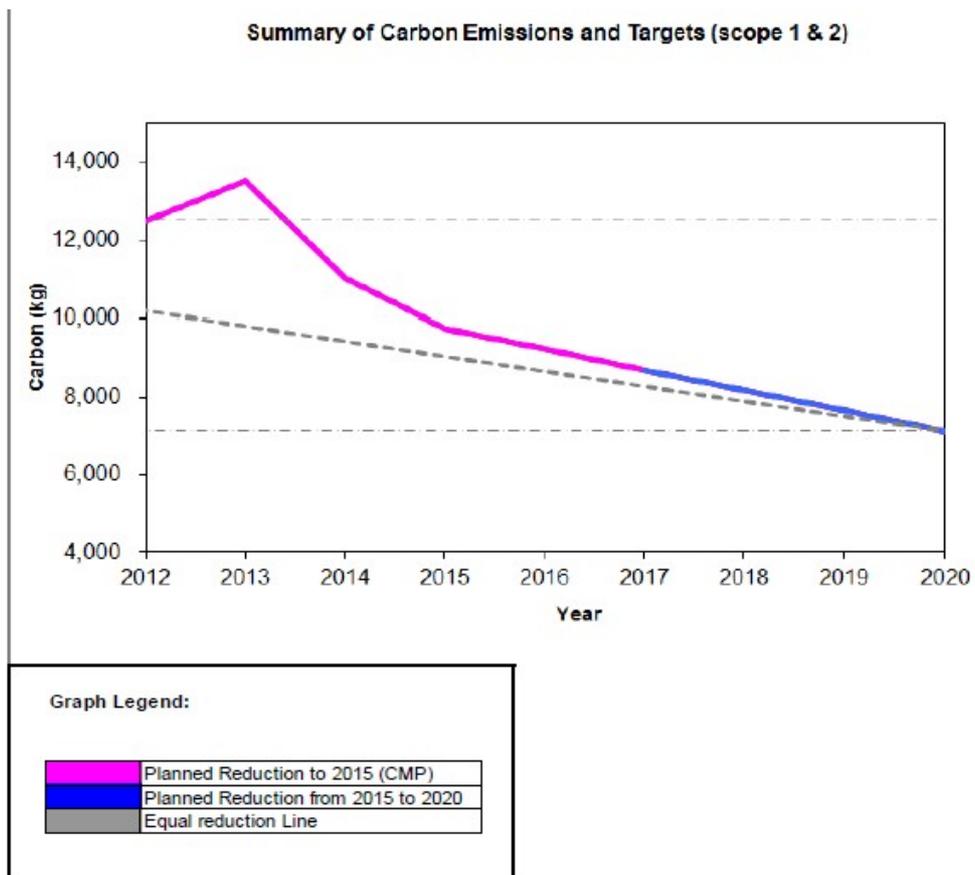
In 2017/18 there was a large increase in overall energy consumption from the previous year –this can explained by the development of a new halls of residence (Gardens House), the expansion of Camberwell College of Arts and the very cold conditions in late winter and early spring. As a result of the university’s expansion the energy consumption is higher than it was in 2016/17.



**Figure 4: Scope 1 and 2 kWh consumption from 2011/12 to 2018/19**



**Figure 5: Scope 1 and 2 carbon emissions from 2011/12 to 2018/19.**



**Figure 6: Carbon emissions trajectory from 2012 to 2020**

## Objective O2: Water

The use of mains water has implications for a natural resource, which, unless controlled can impact on aquatic ecosystems. In addition, the energy used in the treatment and distribution of water, and in sewage disposal, has an associated carbon footprint. In view of this our target is to reduce our water consumption by 43% by 2020.

In 2018/19 UAL consumed 131,666 m<sup>3</sup> of water. This is 5,166 m<sup>3</sup> less than the previous year. In September 2018 a new water supplier was appointed and consumption has decreased as the new supplier had better monitoring of consumption and water saving initiatives.

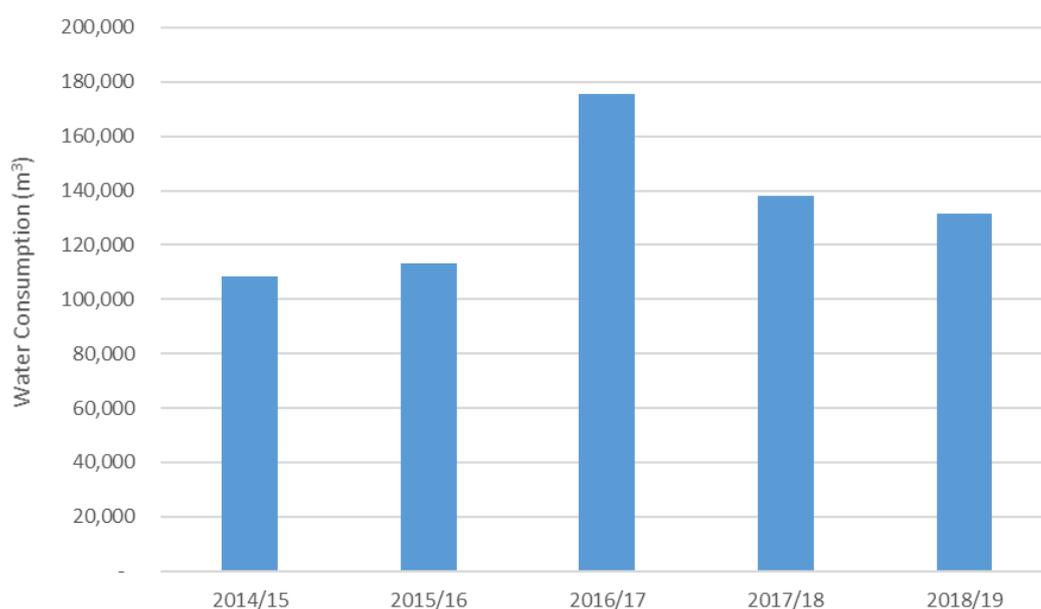


Figure 7: Water consumption (m3) from 2014/15 –

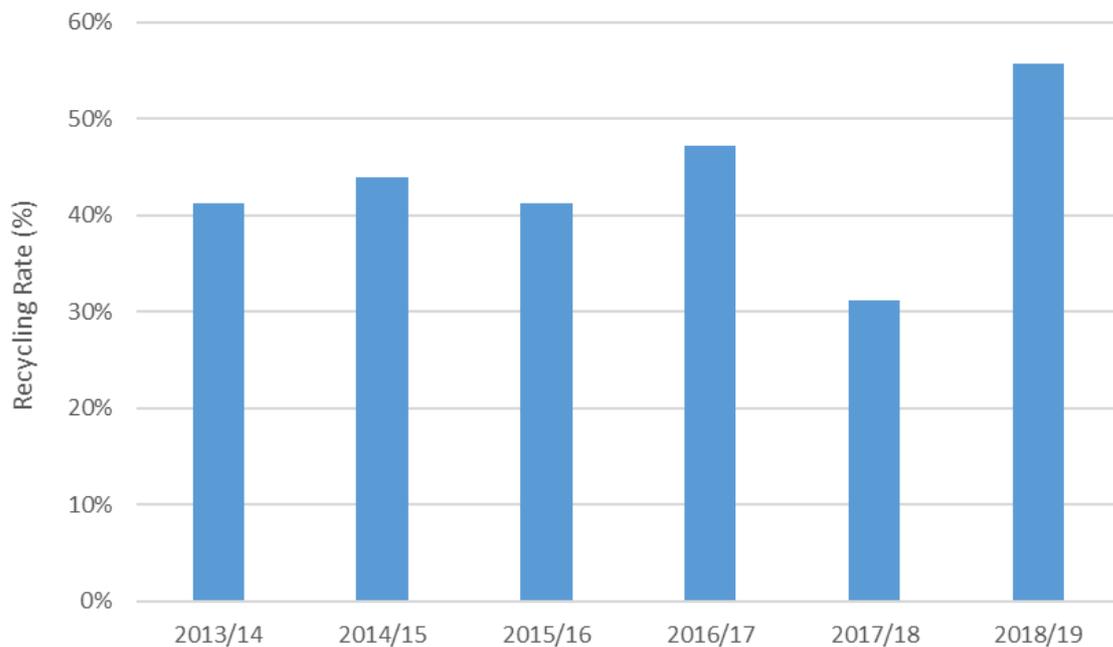
## Objective O3: Air Pollution

UAL can report zero leakages of ozone depleting substances and F-Gases in the year 2018/19.

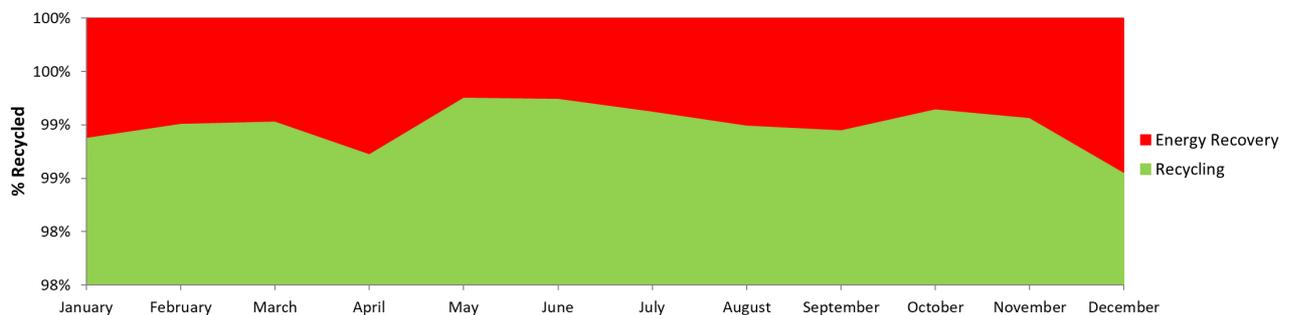
## Objective O4: Waste

UAL's target is to recycle 80% of its waste and continue to send zero waste to landfill. During the reporting period, UAL recycled 765 tonnes of waste (56% of total) which is short of our target of 80% but is a large increase on the previous year (up from 31%). The recycling rate has increased however the amount of waste produced has also increased. In 2018/19, 1,363 tonnes of waste was produced – an increase of 185 tonnes from the previous year.

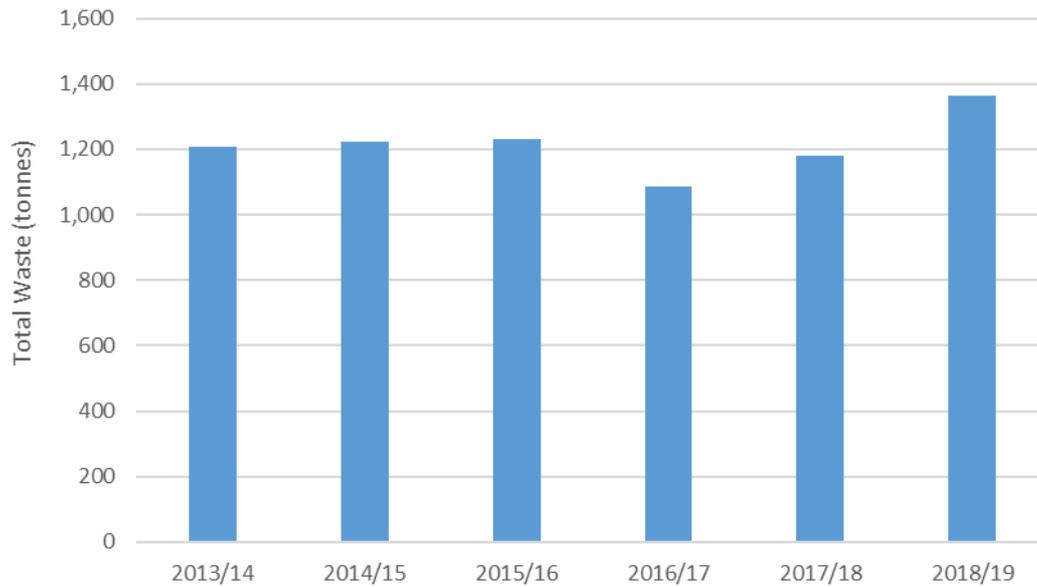
Waste which was not recycled was used to produce energy, rather than being sent to landfill. In August 2017 UAL introduced a new waste contract to the University. This had provided us with greater insight and accuracy regarding what waste is being produced and how much of it is being produced. Estates and the Colleges have worked to have greater oversight and management of waste to increase recycling rates. In March 2020 the colleges were certified with ISO 14001, therefore expanding the existing 14001 certification to include learning, teaching and research. Through this management tool we will monitor and reduce general waste, hazardous waste and non-hazardous skip waste.



**Figure 8: Recycling rate from 2013/14 to 2018/19**



**Figure 9: Recycling and energy recovery percentage rates from August 2018 to July 2019.**



**Figure 10: Total waste (tonnes) 2013/14 – 2018/19**

## Objective O5: Travel emissions

Performance against our travel targets are shown in the table below.

Targets	Baseline/current position	Interim target position (Year 1)	Interim target position (Year 3)	Target position (Year 7)	Current performance
1. Reduce carbon emissions from student and staff commute by 43%	4,346	3,737	3,214	2,477	1,187
2. Reduce number of deliveries	16 per week	12 per week	10 per week	8 per week	438 a week
3. Increase staff/student using season ticket loan scheme	20%	22%	24%	26%	26%
4. Increase staff/student awareness of Workplace Travel Plan	60%	60%	70%	80%	66% (as confirmed by student survey in 2020)
5. No. of video conferencing sessions (Skype for Business, Microsoft Teams)	1 per week	2 per week	4 per week	6 per week	21,000 (as confirmed in the ISO 14001 audit for LTR)

**Figure 11: Performance against travel targets**

Our target to reduce our vehicular business travel emissions by 43% of the baseline year (2013/14) year by 31st July 2020 has been achieved. In 2013/14 emissions from the student and staff commute were 4,346 tonnes of CO<sub>2</sub>. The travel survey conducted in Feb 2020 shows 1,187 tonnes of carbon emissions were produced.

We have also met our target of increasing the number of video conferencing sessions (through Skype for Business or Microsoft Teams)

The UAL Workplace Travel Plan describes our aspirations to reduce the environmental impacts of single occupancy car journeys by promoting sustainable means of travel, focussing specifically on walking, cycling, and public transport. Achieving these objectives will not only enhance the local environment through reduced vehicle emissions, but will alleviate the undesirable impacts on the local community from congestion and parking problems.

A travel hierarchy has been established within our draft UAL Sustainable Travel and Transport Policy, and a Cycle to Work Scheme was launched during 2012.

## **Objective 06: Biodiversity**

The University's Biodiversity Action Plan (BAP) will:

1. address the causes of biodiversity loss;
2. reduce direct pressure on biodiversity and promote its sustainable use;
3. to improve the status of biodiversity;
4. to enhance the benefits of biodiversity.

The university has five biodiversity targets:

1. Carry out an annual ecology site inspection (see checklist in the Appendix)
2. Incorporate the latest thinking on sustainable design and construction to deliver a BREEAM standard of 'Outstanding' and to meet the requirements of the University's Carbon Management Plan. The University requires the development to achieve an "Outstanding" rating for the offices and the homes as defined and assessed using BREEAM. It is essential therefore that the selected design team can demonstrate a proven track record and capability to achieve optimised, cost effective design solutions on projects of similar type. The design team will be required to work closely with the University and shortlisted operators/developers to develop appropriate solutions that embrace the policies to mitigate the impact upon the environment.
3. At least 50% timber products to be sourced from a Forest Stewardship University (FSC) source with chain of custody certification or equivalent scheme. 80% of basic building elements by volume to be 'A' rated according to BRE's Green Guide to Specifications. Majority of the remaining basic building materials elements to be

Green Guide B rated. Basic building elements refer to walls –external and internal walls and partitions -, floors – upper and suspended ground floor -, roofs and ceilings (suspended ceilings and ceiling finishes).

4. No peat or weathered limestone to be used in buildings or landscaping.
5. The building and site should increase opportunities for biodiversity, including green roofs. If a green roof is determined not feasible, the following measures could be taken:
  - provision of roost sites for bats
  - tree planting, planting of wildlife encouraging plants and wall climbers
  - providing nesting boxes and/or swift bricks to encourage new populations of birds
  - supplying feeding areas for birds and/or bats as part of the landscaping
  - Promote the use of green spaces including the terrace at CSM and the staff gardens at LCC

Please refer to the Biodiversity Action Plan which provide details on the actions at each site to achieve these targets.

## **Objective O7: Construction**

UAL has a target to secure BREEAM ‘outstanding’ for all new building constructions costing over £1M and all refurbishments over £0.5M to achieve SKA gold rating. In 2017, the construction of a new halls of residence was completed in 2017 and achieved BREEAM ‘excellent’ and the new extension to Camberwell College of Arts also achieved BREEAM ‘excellent’. This project was nominated for a Green Gown Award in 2018. Previous to this, the new studio at Wimbledon College of Arts achieved BREEAM ‘outstanding’. The new London College of Fashion is currently under construction and has achieved BREEAM Outstanding at the design stage.

## **Objective O8: Oil Leaks and Spills**

There were no spillages or pollution incidents during the reporting period. Our single heating oil storage at John Princes Street remains sound, and all oil and chemical storage areas have been provided with spill kits and defined spillage procedures.

## **Objective O9: Sustainable Procurement**

In 2014 UAL’s tier 1 supply chains were appraised for suppliers’ individual sustainability credentials via the Chartered Institute of Procurement Specialists Sustainability Index. This system continues to be in place and UAL will ensure it complies with the Modern Slavery Act 2015. UAL is in the process of mapping its supply chains in more detail for tier 2 and 3 supply chains.

## **Objective O10: Community Involvement**

### ***Engagement Objectives***

#### **Objective 1: Inform**

To use the communications framework of the University to inform our staff of sustainability progress, challenges and initiatives across the estate, in a timely manner.

#### **Objective 2: Engage & Inspire**

Activities and communications will be engaging and encourage staff and students to get involved.

#### **Objective 3: Increase involvement**

All activity will be centred around driving involvement in our Sustainability Working Group. Activities and communications will endeavour, where possible, to forward the aims of the Sustainability Working Group and other sustainability initiatives across the university.

## **Student, Student Union & Staff representation**

At UAL we're clear that staff and students shouldn't only be engaged in and aware of sustainability initiatives at UAL, they should actively play a key role in oversight and deciding the strategic direction of sustainability at the university. The main vehicle for this engagement is through our Sustainability Working Group – open to all staff and students and Trade Union representatives

The below list comprises actions that have been taken to raise awareness and states training undertaken:

Please refer to the Staff & Student Sustainability Strategy for detail regarding our engagement strategy.

## **9. Future Plans**

In November 2017 UAL launched the Sustainability Manifesto 2016 – 2022. The Manifesto is a new UAL initiative, which provides a framework for UAL's sustainable development and plans over the coming years. It aims to integrate best sustainability practice and improvement, including for environmental management, into UAL's strategies.

It is designed to address the key environmental, social and ethical challenges facing UAL. The UAL Sustainability Manifesto is our way to help build a sustainable future by being an institution that enables our stakeholders to have a positive impact on wellbeing, communities and the planet through all that we do. The Manifesto consists of 20 initiatives and these publicly stated aims reflect the minimum expectations of our stakeholders, notably our staff, students and alumni; employers, funders, partners, suppliers, regulators and the wider community.

The Manifesto consists of three goals – ‘leadership’, ‘enterprise’ and ‘experience’, made up of 20 initiatives to achieve these. The ‘leadership’ goal means ensuring that the existing and evolving strengths UAL has to offer across a range of sustainability disciplines are reflected in a clear narrative. This will establish its credentials as an active participant in solving society’s great social, environmental and economic challenges. For the ‘enterprise’ goal UAL will take advantage of opportunities to align UAL’s unique teaching, learning, research, people and culture with prominent and emerging sustainability trends, common to diverse fields of employment and community engagement. This will attract interest from collaborators and funders. The ‘experience’ goal means ensuring physical interventions in the UAL Estate and social/wellbeing initiatives across the university, focusing on establishing an environment which is healthy, green, inclusive, enabling and underpins physical and mental wellbeing.

The Manifesto’s initiatives and the goals each one supports can be seen in the infographic below.

## Sustainability Manifesto 2016 – 2022

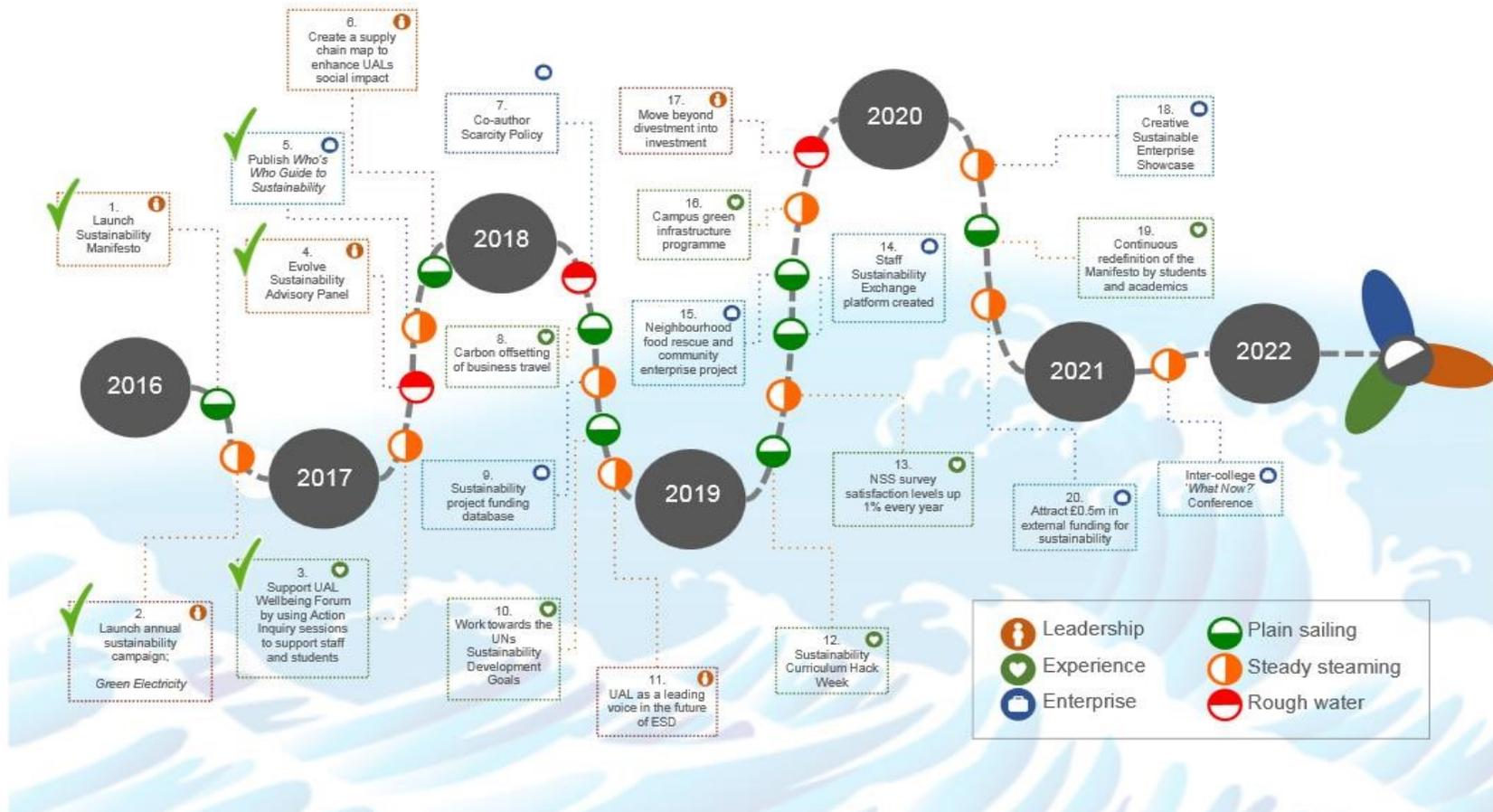


Figure 12: UAL Sustainability Manifesto 2016 - 2022

