

Data and Targets

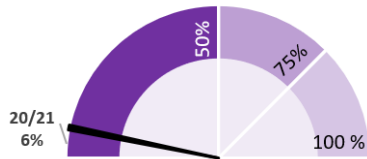
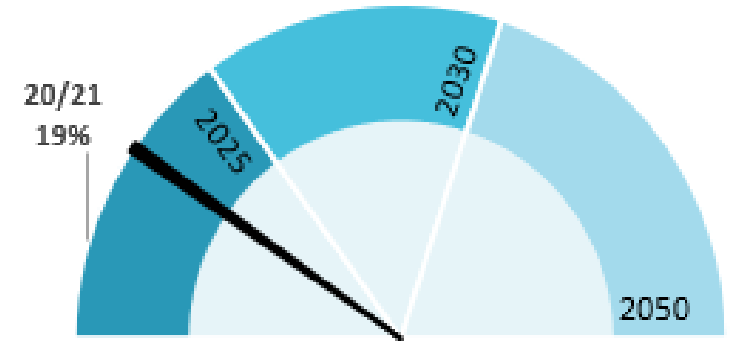
CNZ Dashboard YE 2020/21

Carbon footprint reduced by 19% vs 4.5% target:

- 19% Reduction arising mainly from significant reduction in emissions from Travel
- Planned target position for 2020/21 end was 4.5% carbon reduction, which has been far exceeded

Footprint: 74,775 tCO₂e

↓ 17,335 tCO₂e

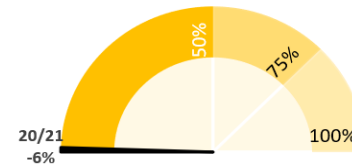


Bought Goods & Services

Footprint: 43,161 tCO₂e

↓ 2,710 tCO₂e

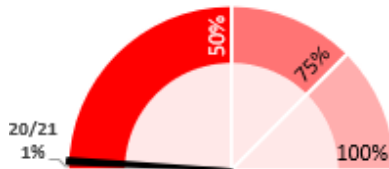
- Hard FM contributes the most to total carbon emissions, e.g. 29% of carbon emissions arising from Bought Goods and Services
- Soft FM offered the second highest reduction, with a significant reduction of 20% from 2019/20
- 13% reduction in construction emissions from 2018/19 footprint



Investments

Footprint: 6,594 tCO₂e ↑ 400 tCO₂e

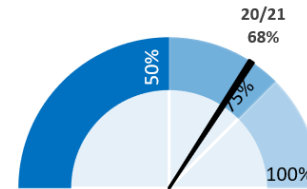
- Carbon arising from investments managed by Rathbones Greenbank Investments reduced by 33% compared to previous year
- Carbon accounting methods for the University's remaining investments (i.e. Pensions, Cash in Bank, Spin out companies etc.) have been estimated



Energy

Footprint: 22,174 tCO₂e ↓ 275 tCO₂e

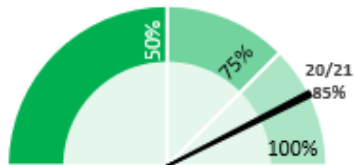
- Reduced occupancy during the Covid-19 Pandemic resulted in a decreased electricity consumption and fuel usage from fleet vehicles
- A significant increase in gas and oil consumption arose from the requirement to increase heating and ventilation within buildings following Government Covid safety guidelines



Water

Footprint: 134 tCO₂e ↓ 283 tCO₂e

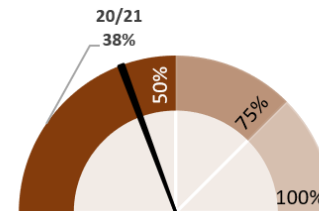
- Reduced occupancy across the University has seen a reduction in water consumption
- Carbon factors for water supply and treatment saw a 60% reduction



Travel

Footprint: 2,610 tCO₂e ↓ 14,404 tCO₂e

- Continued remote working has significantly reduced emissions from commuting
- Fuel consumption from business travel and field trips has also reduced due to travel restrictions relating to the Covid 19 pandemic

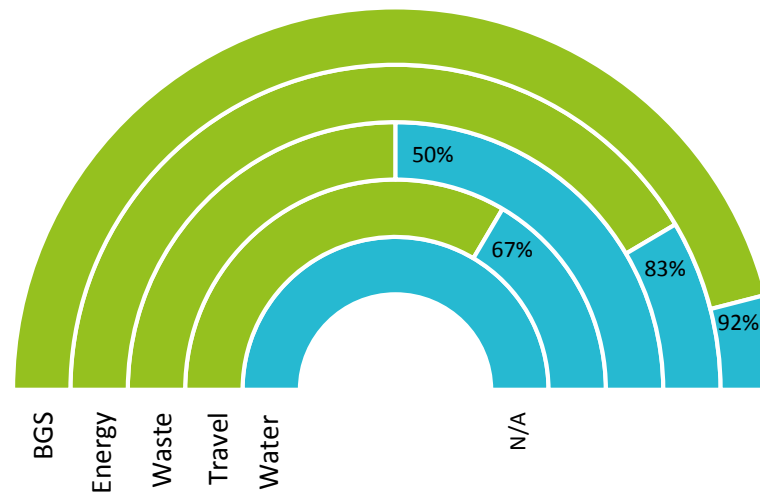


Waste

Footprint: 102 tCO₂e ↓ 63 tCO₂e

- Reduced occupancy across the University resulted in a reduction in waste
- Construction is the single largest contributor accounting for 62% of all waste however, levels of recycling increased by approx. 6% compared to the 2018/19 baseline, and emissions from municipal waste and cardboard reduced by 37% and 52%, respectively

Project Progress



CNZ Dashboard YE 2020/21

Bought Goods and Services

- ISO Sustainable procurement training for 100% of Strategic Procurement team.
- ISO:20400 Gap Analysis
- Net Positives Futures supplier engagement tool connecting us with 557 suppliers
- Sustainable Procurement Policy launched
- 20% award criteria in all invitations to tender
- 21% switch to vegan/vegetarian food purchases

Energy

- Sustainable Design Guide development
- LEAF rollout to 65% of research labs. Of the accredited labs: 84% Bronze, 14% Silver, 2% Gold.
- Thermal and hydraulic modelling of buildings to inform decarb strategy
- 1% of energy consumption generated on site
- 20% energy purchased from PPA, expansion currently on hold due to prices
- 21% operational energy saving for every freezer turned up to 70°

Waste

- Improved signage across the estate
- 47 tCO₂e saved through WARPit considerate disposal scheme
- 100% reduction in plastic for on-the-go food bought through university-owned catering
- 39% recycle rate across campus
- 20p increase in single-use cup levy, now at 40p per cup

Travel

- Interactive business travel decision guidance
- Improved cycle facilities on campus have been purchased
- Essential travel only Travel Policy launched
- Travel carbon footprint calculator launched on finance web pages

Water

- Development of internal water strategy
- Review and forecasting of water markets
- 120 Propelair water-saving toilets installed on site.

CNZ 5-Step Journey

CNZ Dashboard YE 2020/21

1. Building Foundations			
1	Dedicated - operational carbon management team	E&CE Team	Complete
2	Operational carbon / env data baseline	E&CE Team	Complete
3	Timeline for absolute target delivery – 30% by 2025, 60% by 2030, 100% by 2050	E&CE Team	Complete
4	Carbon Scorecards	E&CE Team	Complete
5	Mobilisation of E&CE action	E&CE Team	Complete
a.	Individual – Green Rewards	E&CE Team	Complete
b.	Students – Sustainable Societies Alliance	E&CE Team	Complete
c.	Departmental – Climate Action Plans	SDU	In progress
d.	Pan University - low carbon commitment projects / funding / Green Recovery	SDU	Complete
6	E&CE Policy / Leadership Statements	CGR	Complete
7	E&CE Board & CNZ Delivery Group	CGR/SDU / E&CE Team	Complete
8	Engagement – Thematic Forums / Workshops / Pan University Climate Emergency Committee / Communication	E&CE Team	Complete
9	Global Advocates / Advocates for each College / Research and Education	EP	In progress
10	Environmental Management Systems (ISO14001) refocus	E&CE Team	Complete
11	ECE Decision Box in Business Papers	CGR	In progress

2. Operational Carbon Strategy (Scope 1, 2 & 3)			
1	10 year operational carbon footprint reduction plan / Science based targets	EP	In progress
a.	reduction 2020-2025	EP	In progress
b.	alternatives 2025 – 2030	EP	In progress
c.	net gain / supplier delivery 2030+	EP	In progress
2	E&CE embedded in Global Strategies – tipping points / decision trees / future proofing low carbon growth	tbc	
3	E&CE Sustainable Policies / Procedures / Processes – Travel / Procurement / IT / Waste / Adaptive Estate / Hierarchy approach / Renewables Strategy (On and Offsite to build carbon negative position)	CGR	In progress
4	Tracking against baseline	E&CE Team	Complete
a.	Env & Carbon savings from operations / initiatives / actions	E&CE Team	In progress
b.	Supplier Carbon capture of products / activities	Procurement	
c.	Carbon growth / predictions / modelling	SDU / PPBI	
5	Biodiversity metrics / benchmarking / tracking / Net Gain Strategy defined – partnerships / funding / project definitions	tbc	
6	Top quartile in 5 external benchmarks – Times HE / Green Gown / SLS / Guardian / P&P	E&CE Team	Complete
7	External Comms / proactive marketing and media programme – immersive education and dedicated team	tbc	
8	Investment Carbon – examine pensions/ establish carbon reduction plan	Finance	In progress
Education			
8	Climate Literacy / SDG in Curriculum – using Students as Change Agents	E&CE Team / Education Exec	In progress
9	All courses mapped to SDG's	tbc	
10	Dedicated SDG podcasts – students / academics being interviewed	tbc	Complete
11	SDG case studies / SDG resource library	tbc	
12	SOS Teach in – leadership each year	tbc	
13	Living Lab – visible E&CE on Campus / Low Carbon Internship Programme	tbc	
14	LEAF in all labs – Silver standard	tbc	In progress
Research			
15	Research based Education in Sustainable Development	tbc	
16	Research Strategy promotes E&CE inclusion even if not requested in research applications	tbc	
17	Research Travel – e.g. promotes slow travel	tbc	
18	Map your research to the SDGs.	tbc	
19	Liaise with national research funders to consider increased research funding in tackling the climate crisis	tbc	

Step 1: Building the Foundations

- Significant progress made in 2021,
- 3 actions remain and are nearing completion reliant on UEB mandate
- All actions require ongoing support to sustain as they form the foundations of the carbon net zero delivery plan

Status:

80% Complete
20% In progress

Step 2: Operational Carbon Strategy

- Step 2 has commenced and some actions complete related to tracking baseline and benchmark reporting
- Development of SDG materials and resources underway
- 65% LEAF roll out to Labs achieved and 7 labs achieved silver, 1 lab achieving Gold

Status:

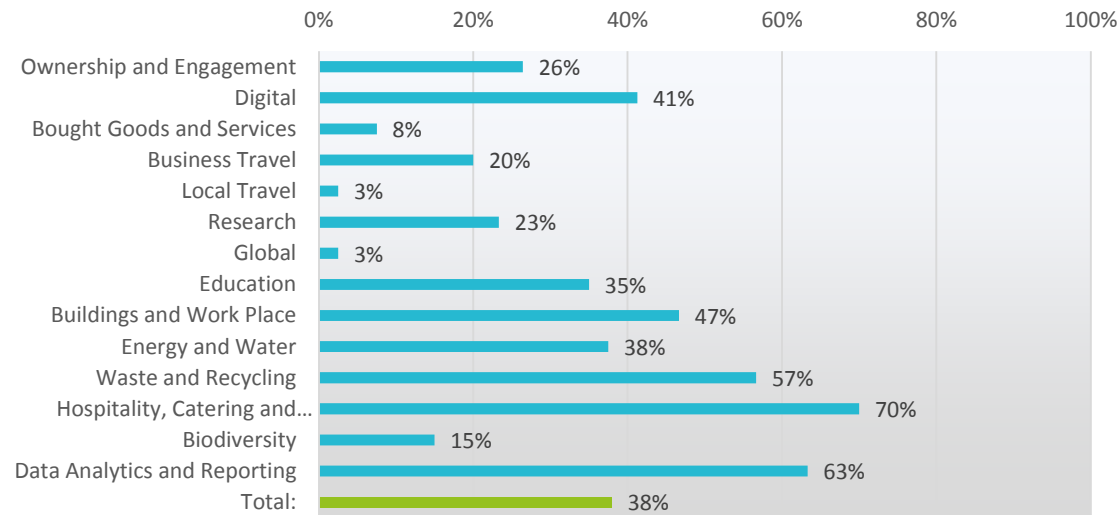
12% Complete
34% In progress
54% Not started



Progress on Policy Commitments: 38% achieved

- Significant progress made in the 5 year objectives and commitments for Hospitality and Catering, Data reporting, waste and recycling
- Overall 38% completion achieved since October 2021

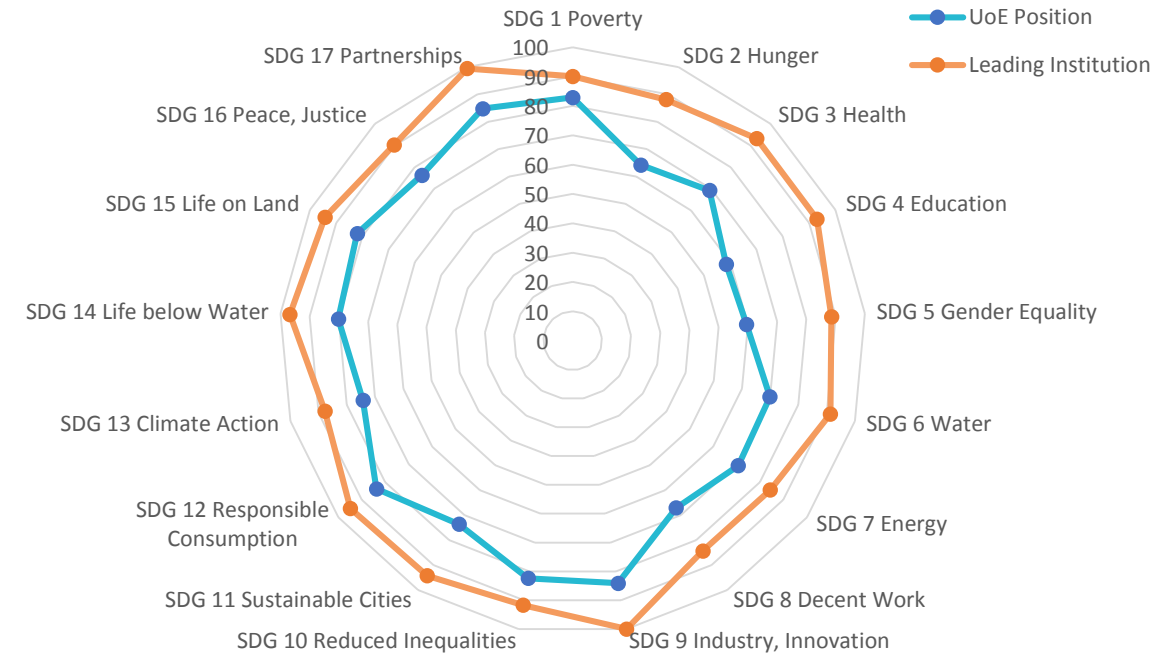
Percentage Progress



Key Achievements:

- 100% reduction in single-use plastic has been removed from University controlled catering outlets
- 20% consideration for sustainability within tenders
- Sustainable Design Guide completed and awaiting sign-off
- Digital working accelerated due to Covid with expectation to continue to realise these benefits post-lockdown
- Carbon Literacy content developed with student input for launch Jan 2022

THE Impact: Overall Score 88.7% / 63rd out of 1118 Institutions



Key Achievements:

Highest performing SDGs;

- Industry Innovation and Infrastructure [SDG 9]
- Responsible Consumption/Production [SDG 12]
- Partnerships for the Goals [SDG 17]

Lowest performing SDGs

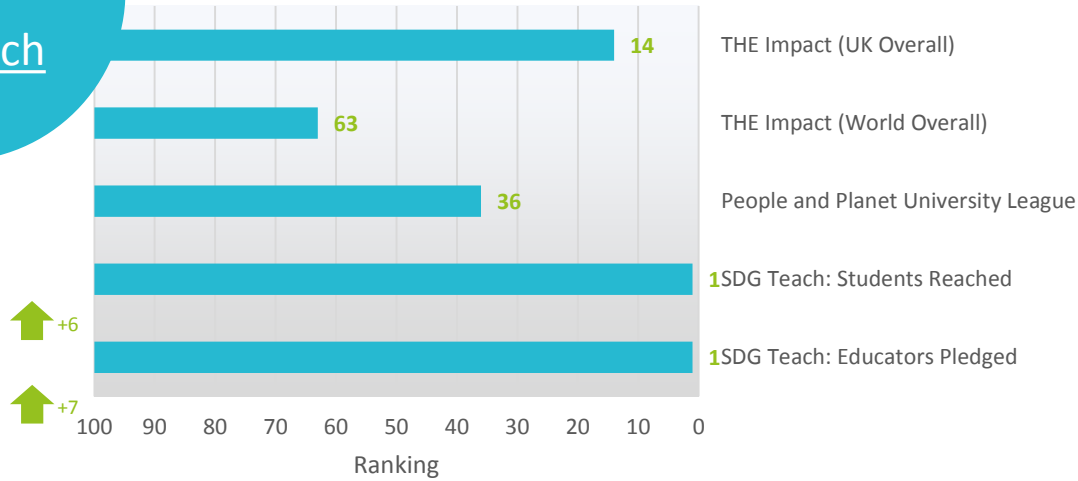
- Zero Hunger [SDG 2]
- Quality Education [SDG 4]
- Gender Equality [SDG 5]

Leading the way;

- University of Manchester tops the overall rankings, including individual rankings for SDG 11 and SDG 12. University of Plymouth leads SDG 14.

Benchmarks and Outreach

Benchmarking and EMS:



SOS-UK Carbon Targets Ranking: **Leading The Way**



Sustainability Leadership Scorecard: **Silver** (up from Bronze in 2020)

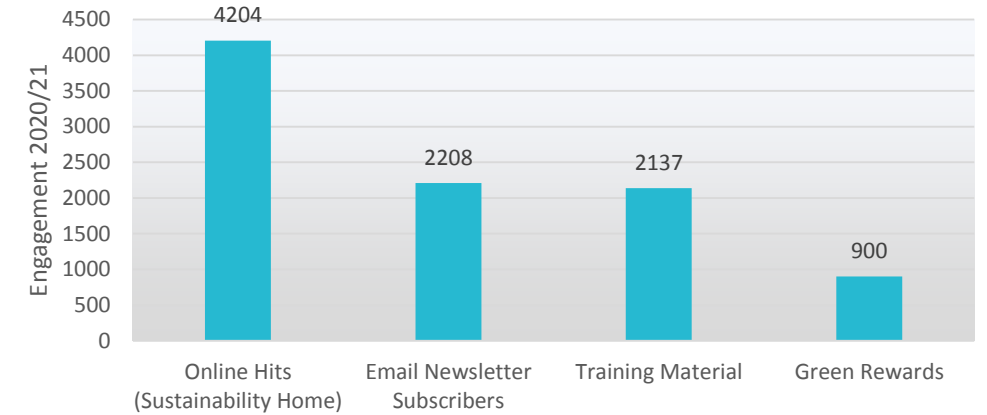
Benchmarking Major Achievements

- SLS SILVER 68%; 389 points - +14s required for gold
- People & Planet 50.4%; 2:1 class – 2019 ranking (no ranking given for 2020)
- SDG Teach In: 1st for educators pledged (96); 1st for students reached (40.9%)
- Highly Commended in AUDE Awards 2021
- Shortlisted for 4 Green Gown Awards (Benefitting Society; 2030 Climate Action; Staff Sustainability Champion; Tomorrow's Employees)
- Shortlisted for THE DataPoints Award

Benchmarking Steps for Improvement

- Full ISO: 14001 accreditation to be achieved in early 2021/22
- Recruitment of dedicated communications position to address visible action criteria
- Efforts to embed the SDGs into education and course content will continue to be made

Stakeholder Engagement:



Engagement Commentary

- Online hits reaches the greatest number of stakeholders, however certain training material was not available for the full year

Green Rewards 2020/21



900 sign-ups



N/A (First Year of Offering) % ↑ ↓



47,000 positive actions completed

N/A (First Year of Offering) % ↑ ↓



50 tonnes saved

N/A (First Year of Offering) ↑ ↓