

Universities on the way to Carbon Neutrality - University of Bristol

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Zero Carbon

1. Sustainability at Bristol
2. 8-point carbon plan
3. What has been achieved
4. Q&A

Bristol & Sustainability

- Team of 15, Estates, focus on Carbon, Circular Economy and Transport.
- Sustainability Policy – 15 areas.
- Education, Research, Community, Operations.
- Bristol – European Green Capital

Carbon Footprint

- 132,440tonnes
 - 1) Buildings energy = 30%
 - 2) Procurement = 44%
 - 3) Transport = 26%
- Net zero carbon target since 2015 (scope 1 & 2)
- 10% reduction target for S3
- Detailed Carbon Strategy
- Summarized: 8-point carbon plan.

8-point plan – Scope 1 & 2

1. Stop waste
2. Use energy efficiently
3. Space Utilisation
4. Build low energy
5. Low carbon self-generation
6. Connect to low carbon networks
7. Buy renewable energy
8. Carbon off setting

Action on Carbon

- BEMS £1mill to help control and prevent wastage.
- Green Impact and Be the Change
- £10million on energy efficiency measures like LED lighting, insulation, volt op, equipment.
- Building Sustainably – 20 projects BREEAM Excellent standard.
- Temple Quarter – reuse of heat, ASHP likely to be net zero
- Renewables – almost a MW of solar.
- CHP – 2MW
- Connecting to LA heat network
- Buying renewable energy PPA
- 100% Renewable contract

Action on Carbon 2

- Toolkits on reducing flying
- Procurement supply chain/WLC
- Biodiversity & offsetting
- Disinvestment in fossil fuels
- Less than 1% of the University's waste goes to landfill – the rest is either reused, recycled or composted
- Sustainable Futures on-line course
- Reduced water consumption by 25%
- Absolute carbon emissions down 33%

Climate Emergency

- 1st UK University to declare (by a day!) April 2019.
- Key action is departmental Climate Action Plans.

Climate Action Planning Tool

- **Buildings**

Where and how you use energy, equipment, LEAF, BREEAM, Space..

- **Consumption**

What and how you buy, significant spends, waste, deliveries...

- **Travel**

Business travel, commuting, fleet, students, conferences, flying...

- **Advocacy**

Education, Students, research, living lab, engagement, transparency....



Questions

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Impact of Covid

- Capital 'Freeze'
- Refocus on no cost low cost measures
- Still senior commitment – Uni Vision and Strategy – cross cutting theme.
- CAP writing delay until January 2021
- Carbon and Flying – Business travel almost stopped.
- Carbon emissions during 19/20 down to 40%.
- Chance to reduce operation.
- Space optimisation.
- FF&E Policy on its way
- Learnt from covid - Resilience