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 Professor James Longhurst Assistant Vice Chancellor and Professor of Environmental Science

• Kirsti Norris – UWE Energy Manager







- The concept of City Carbon Neutrality
- Carbon neutrality in Bristol
- Carbon management at UWE Bristol
- Using the carbon reduction hierarchy to drive organisational and city change
- Discussion
- Feedback
- Actions



The concept of City Carbon Neutrality



The World Resources Institute (WRI) define neutrality of greenhouse gas (GHG) emissions as "net zero anthropogenic (from human activity) GHG emissions from all sectors". This is achieved primarily by reducing GHG emissions to as close to zero as possible. Then any remaining emissions can be balanced with an equivalent amount of removal of GHGs, such as by 'negative emissions' technologies or sequestration, that is removal from the atmosphere for example by planting trees.

The simplified term 'carbon neutrality' is appropriate in an urban setting, as the majority of GHG emissions in such areas are from carbon dioxide (CO₂) from fossil fuel combustion. Other emissions can be captured through 'CO2 equivalent' (CO₂e) measures.

Equivalence—the impact a GHG has on the atmosphere expressed in the equivalent amount of CO₂

http://www.wri.org/blog/2015/12/cop21-qa-what-ghg-emissions-neutrality-context-paris-agreement



Carbon neutrality in Bristol – UWE's contribution



- Researching the issues e.g. ClairCity, Urban ID
- Incorporating in teaching *numerous PG and UG programmes*
- Managing the estate *ambition for carbon neutrality by 2030*
- Engaging with civic society working with local authorities, Bristol Green Capital Partnership, Future Economy Network etc.



Carbon management at UWE Bristol



- 30,732 students
- 3,692 staff
- £271.3 million turnover
- 3 campus sites across
 Bristol and South
 Gloucestershire
- £5.4m utility spend





Energy consumption







Energy efficiency







Energy saving projects



















Culture change









Renewables and low carbon heat





Progress on absolute CO₂ targets and looking ahead to 2030



Target: Reduction of absolute carbon emissions (Scope 1 & 2) by 22.5% by 2020/21 on 2005/06 baseline.





Using the carbon reduction hierarchy to drive organisational and city change



This highlight the need to first avoid carbon intensive activities, then reduce emissions through efficiency improvements, then replace current activity with less carbon intensity activity. Only then is offsetting or sequestering of any emissions not eliminated in the early stages considered (consistent with WRI's GHG emission neutrality definition).



after Forum for the Future



Amended carbon management hierarchy





after Piper 2018







 Hearing from each other – how are you engaging with your wider region's carbon reduction aspirations?







• Sharing key insights, great ideas and inspiration!



Actions





How can you contribute to carbon ambitions in your city / region?

Note down one action that you will take back to your institution.





UWE Support for Carbon Neutrality

- Research
- Consultancy
- Live Briefs
- UG Dissertation topics
- MSc Dissertation topics
- Placements
- Part funded internships
- Knowledge Transfer Partnerships
- PhDs
- Networking e.g. Distinguished Executive Address Series



The SDG Accord





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