

Whole Estate Strategy

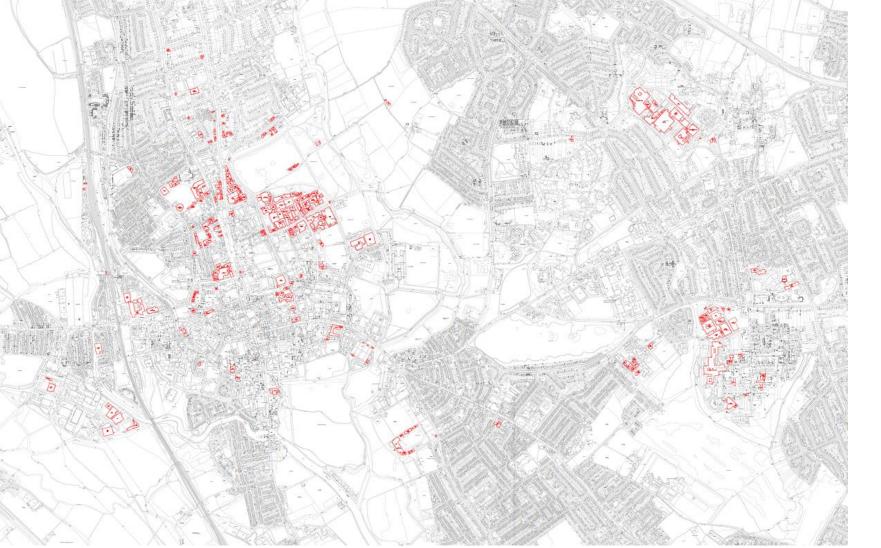
Tom Heel – Deputy Head of Environmental Sustainability
University of Oxford















ESTATE

- >250 buildings, 49 listed
- 13 main sites, 3 hospitals
- 40% growth in GIA since 2000
- Capital projects £120m pa

EXPANSION

- 1,000 graduate bedrooms rooms
- 1,000 staff housing units
- 6 campus masterplans

CARBON PLAN

- 33% reduction between 2005 and 2020
- 18.5% achieved to 2017
- 100% wind power

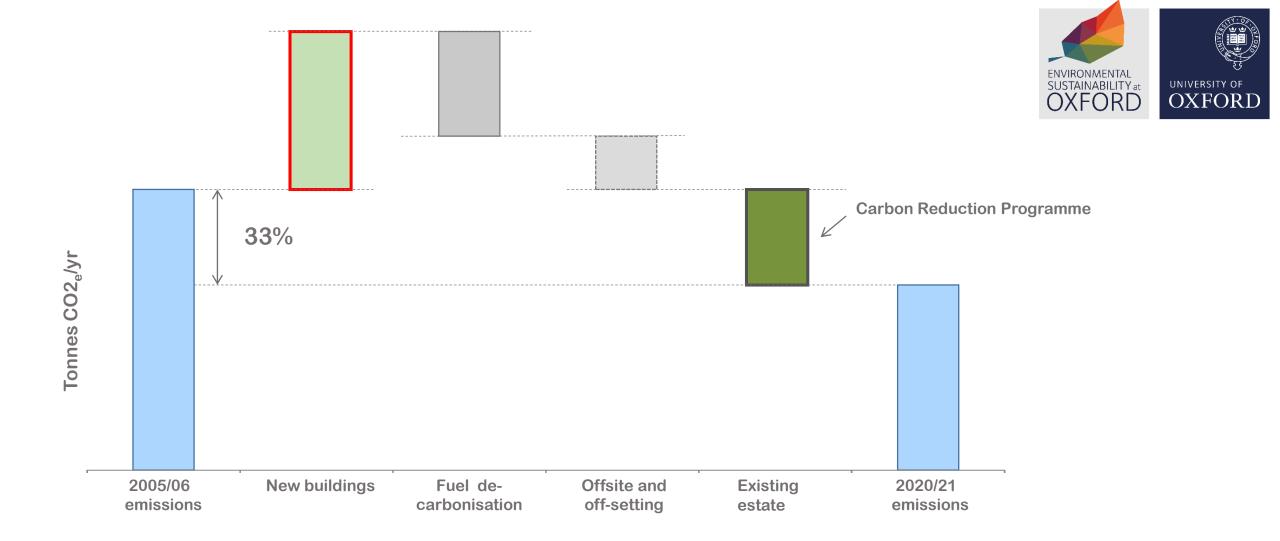
CONTEXT











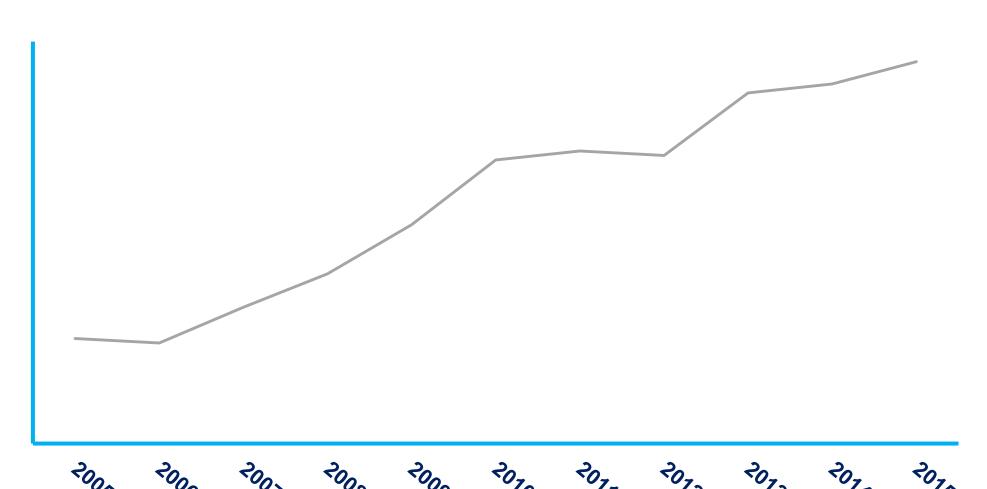
CARBON MANAGEMENT PLAN















GROWTH















BEST PRACTICE

























































DELIVERING TARGETS



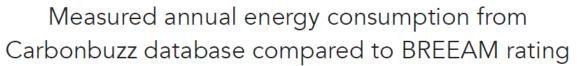


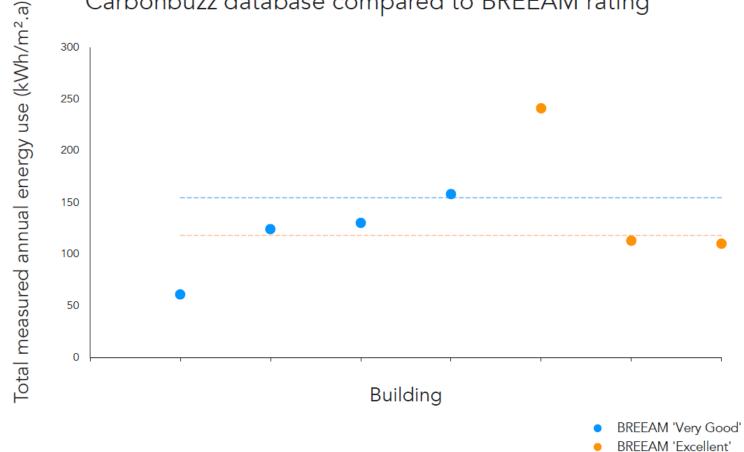












PERFORMANCE GAP









Not required by HEFCE or funders













- Not required by HEFCE or funders
- Not required by planning













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- Not required by planning
- Not delivering on operational costs













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- Not delivering on operational costs
- Reduced additionality to policy













- Not required by HEFCE or funders
- Not required by planning
- Not delivering on operational costs
- Reduced additionality to policy
- Risks of increased complexity













- Not required by HEFCE or funders
- Not required by planning
- Not delivering on operational costs
- Reduced additionality to policy
- Risks of increased complexity
- Significant impacts on cost

















"What got us here won't get us there"

Marshall Goldsmith











ENVIRONMENTAL SUSTAINABILITY at OXFORD OXFO

- BREEAM Outstanding high cost for limited benefit
- AECB Silver too limited application
- NABERS no UK track record
- SKA not enough focus on fabric
- WELL narrow scope

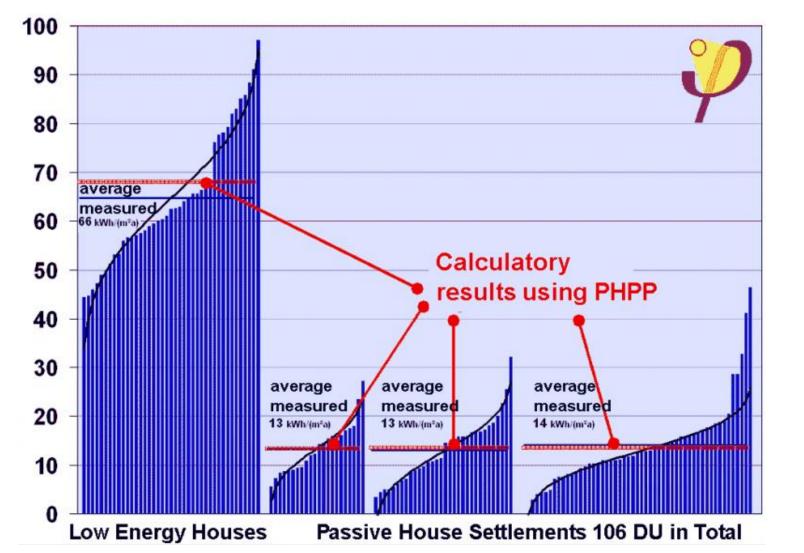
ALTERNATIVES







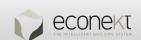




EVIDENCE BASED



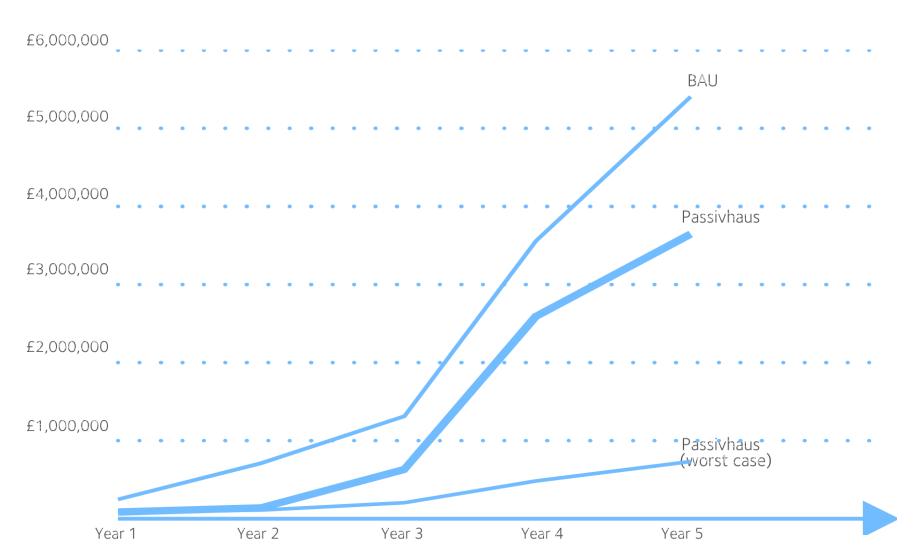












RISK OF DO NOTHING







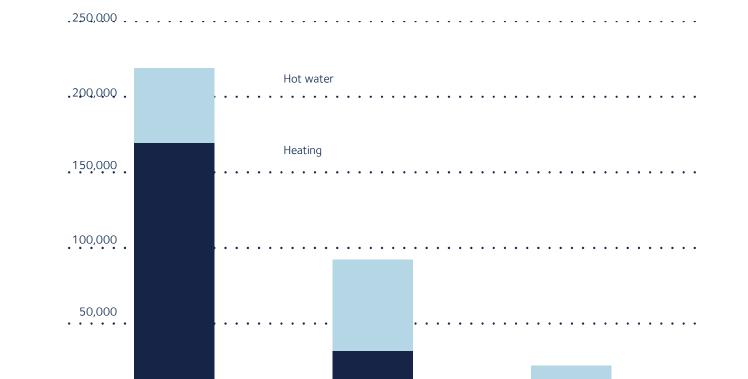












Proposed Building

Current Grid

Proposed Building

2030 Grid

PATH TO ZERO CARBON



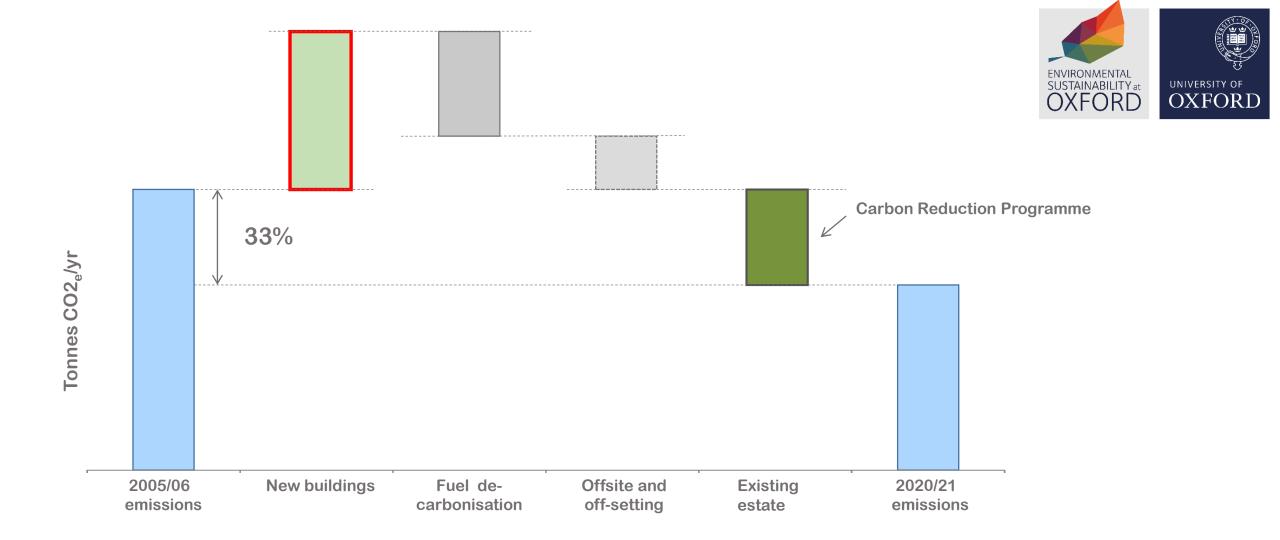
kgCO₂e/year



Existing Building







CARBON MANAGEMENT PLAN















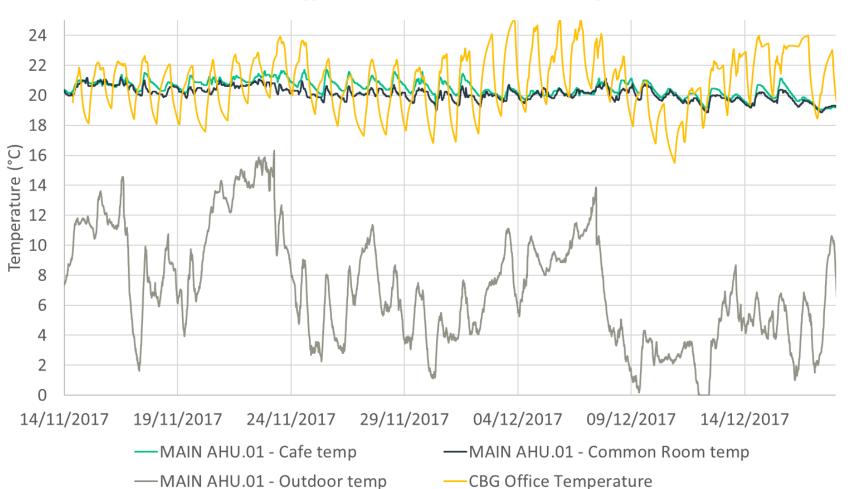








Kellogg Hub Temperatures (5-minute readings)







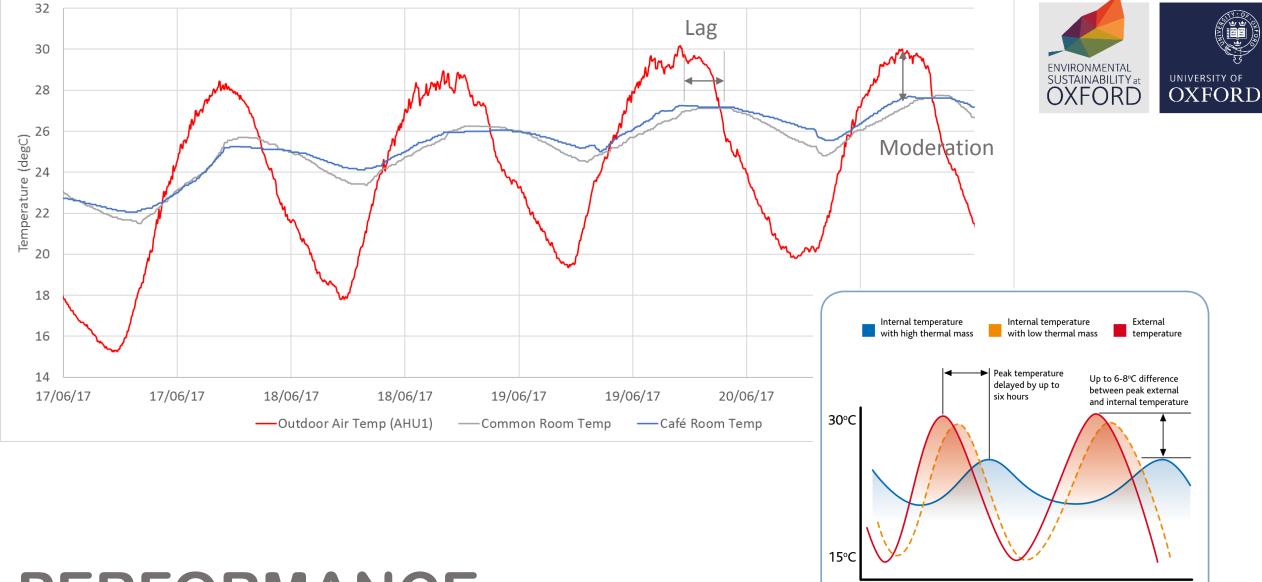
PERFORMANCE











PERFORMANCE









Day

Night

Day



- Precedent set
- 153 institutions
- 3bn annual capital spend
- International reach







THE OPPORTUNITY

















FUTURE PROJECTS









Selling the benefit



















Pragmatism - Equipment Replacement (particularly labs)















- Pragmatism Equipment Replacement (particularly labs)
- Helping the QS















- Pragmatism Equipment Replacement (particularly labs)
- Helping the QS
- Reassuring contractors















- Pragmatism Equipment Replacement (particularly labs)
- Helping the QS
- Reassuring contractors
- Re-branding comfort















THANK YOU







