



Introductions



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Director





The Challenges

Annabel Clark



Where are we now?



Innovation & Avalibility



Stakeholder Engagement



Data, Design & Understanding



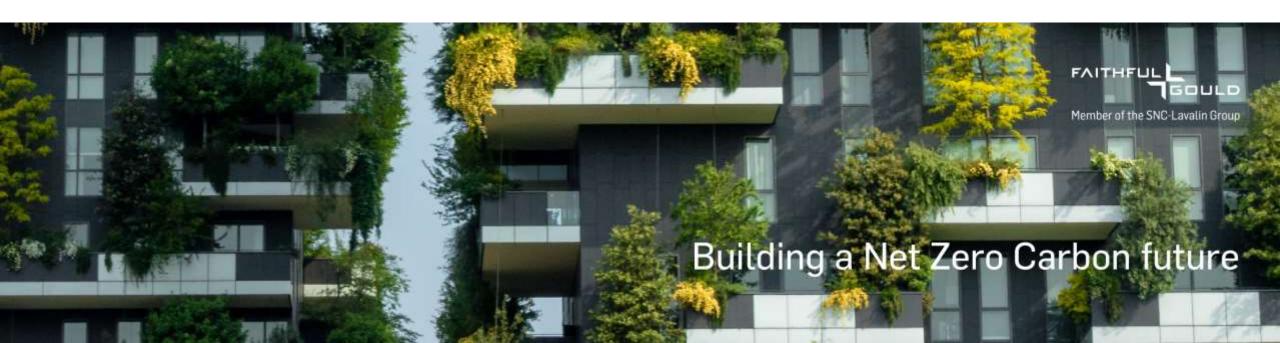
Risk



Quantifying benefits

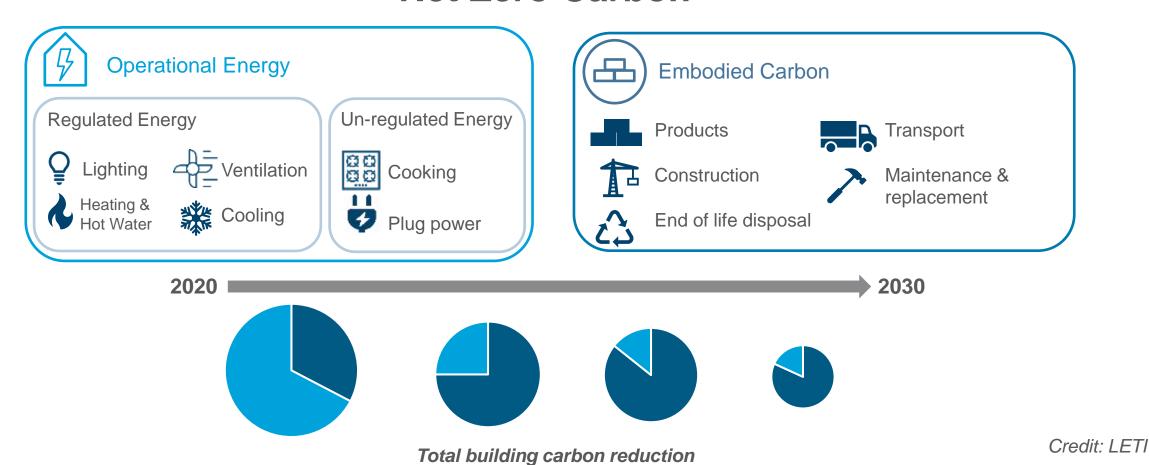


Cost



Defining Net Zero

Net Zero Carbon





New Builds: Cost Associated with NZC

Steve Jackson



Challenges



Lack of current expertise/supply chain drives up costs



Balance between design and planning



Insufficient incentive





Case Study - London Borough

- Residential Development
- Assessed baseline, aspirational and Passivhaus principles
- 89% reduction CO2 Passivhaus principles
- Maximise PV on roof
- +£2.45m capital cost (+6.4%)
- Carbon offset -£135k
- 30% reduction in heating costs per year





Main Cost Drivers





Triple glazing





Improved MEPH system efficiencies









The Future



Increased uptake will reduce costs over time



Elemental analysis to focus design



Whole life cost assessment





Existing Buildings: Cost Associates with NZC

Peter Dunn



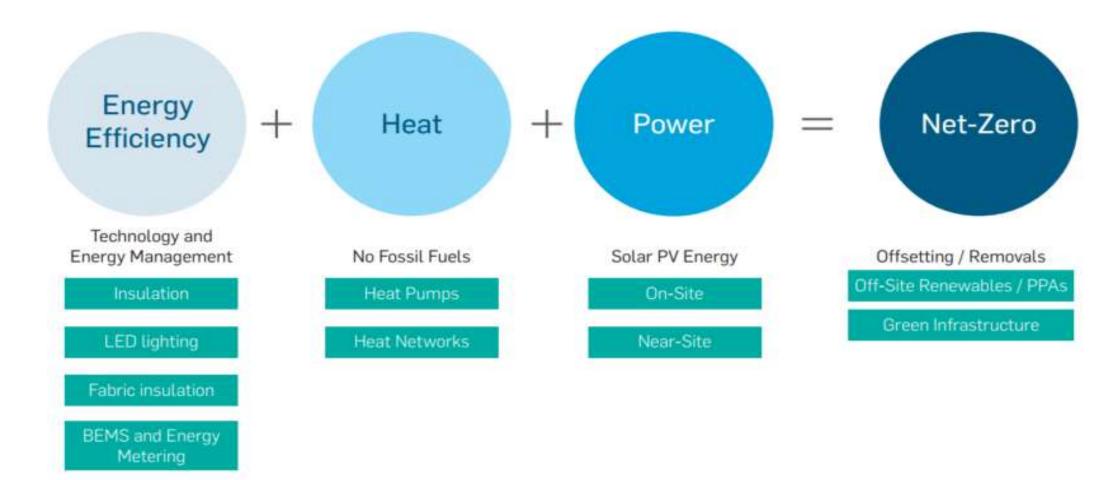
Defining Net Zero and Co-benefits







Top Net Zero Interventions







Main Cost Drivers









Defining clients' estates that are consistently changing



Day-to-day disruption from intervention works



Skills gap within the construction industry

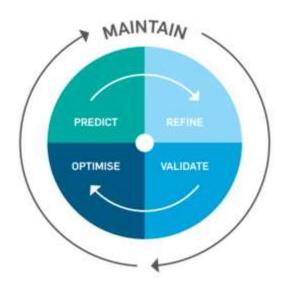




The Future

Organisations timeframe to achieving operational net zero are determined by:

- Financial Commitments
- Life cycle replacement works
- Reputation
- Leadership goals



Building a Net Zero Interventions Road Map

