

M&E Contractor Insights

A low-carbon retrofit overview

Low-Carbon Retrofit is the process of improving a building's fabric and systems with the primary goal of improving energy efficiency and reducing carbon emissions.





of end-of-life HVAC with new energy efficient systems

CAT A to CAT B

office conversions



UPGRADING

existing HVAC to improve energy efficiency



REPLACEMENT

of fossil fuel heating systems with heat pumps



UK has committed to achieving Net Zero

by 2050



space is surging

Energy-efficiency has been the driver – but now the focus is on **Operational Carbon** & Embodied Carbon



UK needs to double the pace of redevelopment

to levels seen over the last ten years, while delivering a step change to achieve the

59% REDUCTION

in energy use needed by 2050 (UKBC)

80%

of commercial buildings currently in use will still be here 70%

of commercial buildings were built before 2000 - so to realise 2050 targets much of the sector will have to undergo some form of retrofit (UKBC) Approximately
132,000
buildings are
over 1000m²
and account for 50%
of ALL non-domestic

enerav usade

LIGHT RETROFIT

Focus on performance optimisation, basic remodelling, replacement, or adaptation of existing building elements

2 FORMS OF RETROFIT

DEEP

Focus on significant works of size or scale that result in a fundamental change to the building structure and/or services



Why electric is the right solution

A cleaner grid 46%

of UK's electricity from green Using a heat pump over a gas boiler for the same heating task reduces carbon emissions by

76%

CO₂

Over the whole life cycle a heat pump produces

times less carbon emissions

For an overview of our low-carbon product range, please click here.

Contact the M&E Contractor sales team for more information les.mesales@meuk.mee.com

BLOG













