

CPD **LIVE**

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This CPD seminar entitles you to 1 formal CPD point. Please be aware you are required to manage your own CPD records. We will provide you with your participation certificate and CPD evaluation based on our attendance records post event and your completion of the below questionnaire.

The below answer sheet is for your own self-assessment.

Please keep your completed questionnaires and answers on file for your record.

These do not need to be sent to the AIA or to CPD Live. CPD-Live will send you a Refuel certificate.

DESIGNING FOR OUR FUTURE - CARBON MITIGATION AND THE BUILT ENVIRONMENT

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1) What is embodied carbon?

Embodied carbon refers to all the CO2 emitted during all phases of production, including extraction, transportation, manufacturing, etc.

2) The embodied carbon concept is divided into stages. Can you name these stages?

A1-A5 Production and Construction; B Use Stage (including Operating carbon as well as maintenance embodied carbon); C End of Life and D Beyond Life.

3) In the context of design, in which stage are there the biggest opportunities to reduce embodied carbon?

Almost 50% of embodied carbon footprint of buildings is committed in the first few days of the design process.

4) What are the two types of carbon offsets that construction projects can employ to achieve net zero emissions?

Offsets involve using an equivalent-sized carbon-positive investment of some kind, to bring the total carbon to zero. They can occur either on-site or off-site.

5) Considering operating carbon and embodied carbon, is it correct to assume that reducing minimising one will necessarily result in reducing the other?

No, efforts to minimise operating carbon, e.g. spending more on roofing or insulation can increase embodied carbon (present in the roofing or insulation).

6) Are there any general principles that specifiers aiming to reduce embodied carbon should follow?

Benchmark your project; Break down or 'profile' the carbon footprint to target big wins; Set and communicate a Net Zero embodied carbon project budget/target; Validate your results; Share, report & learn.

AACA Competency Codes: 1. Design: Project Briefing 1.2, 1.4, 1.5 / 3. Design: Conceptual Design 3.3, 3.4, 3.7 /

4. Design: Schematic Design 4.2, 4.4, 4.6, 4.7