Australian Institute of Architects | Refuel

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DESIGNING FOR OUR FUTURE – CARBON MITIGATION AND THE BUILT ENVIRONMENT

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1. What is embodied carbon?
2. The embodied carbon concept is divided into stages. Can you name these stages?
3. In the context of design, in which stage are there the biggest opportunities to reduce embodied carbon?
4. What are the two types of carbon offsets that construction projects can employ to achieve net zero emissions?
5. Considering operating carbon and embodied carbon, is it correct to assume that reducing minimising one will necessarily result in reducing the other?
6. Are there any general principles that specifiers aiming to reduce embodied carbon should follow?

At the end of this panel, attendees will be able to:

- Outline the scale of the climate change problem as it relates to the construction sectors.
- Define the term 'embodied carbon' and explain how it relates to the built environment.
- Identify the challenges and complexities involved in any attempt to construct a 'sustainable building'.
- Outline strategies that specifiers who wish to minimise the embodied carbon in their projects can follow.
- List the four key design principles of achieving net zero embodied carbon.

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