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Regenerative architecture: Beyond sustainability with biomimicry

1. Define the terms regenerative architecture and biomimicry, and explain how each differs from related concepts such as sustainability and carbon neutrality.

Your answer should include at least one example of each concept in practice.

2. You are tasked with designing a mid-rise urban building using regenerative design principles.

Outline two strategies (e.g., living materials, water-sensitive urban design, carbon-absorbing elements) that could be applied, and discuss how each contributes to environmental restoration and carbon reduction over the building's lifecycle.

3. Which of the following best reflects a regenerative approach to architecture?

- A. Designing a building with only low VOC materials
- B. Using energy-efficient systems to reduce energy use
- C. Creating a building that generates more energy than it uses and enhances local biodiversity
- D. Minimising construction time to lower labour costs

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

- Define the terms 'regenerative architecture' and 'biomimicry'
- Explain how these terms differ from related concepts like 'sustainability' and 'carbon neutrality'
- Outline strategies and methods associated with regenerative architecture
- Identify examples of regenerative architecture
