

The below answer sheet is for your own self-assessment. Please keep your completed questionnaires and answers on file for your record. Sustainability Summit will send you a Refuel certificate once your questionnaire has been submitted.

Data-Driven Design: Leveraging Technology For Sustainable Housing Solutions

1. How can data analytics be used to optimize the design and construction of sustainable housing, ensuring maximum energy efficiency and minimal environmental impact?
2. What role do building information modeling (BIM) and other digital tools play in creating sustainable housing solutions that are adaptable to different environmental conditions?
3. How can real-time data from smart sensors and IoT devices be leveraged to improve the performance and energy efficiency of sustainable housing post-construction?
4. What are the challenges in integrating data-driven approaches into traditional housing design processes, and how can these be overcome to achieve better sustainability outcomes?

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

- Explain what is meant by the terms ‘Smart Homes’ and ‘Smart Buildings’
- Identify the environmental benefits associated with digitalisation and data-driven design
- Identify challenges associated with digitalisation and data-driven design
- Outline ways to overcome these challenges and maximise the environmental benefits of data and connectivity
