



The UK's National Centre for Renewable Fuels, Chemicals & Materials

The Renewable House

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NNFCC

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bre **INSITE09**
Introducing the home 1-4 June 2009



The Renewable House is a unique housing project being built for launch at INSITE09, at the BRE (Building Research Establishment) Innovation Park on 1-4 June 2009.

The house is based around using renewable materials to deliver a low cost, affordable house that meets Level 4 of the Code for Sustainable Homes, with a build cost of £75,000, excluding groundworks. Whilst offering significantly minimised embodied CO₂, the design also enables the easy enhancement to meet Levels 5 and 6.

The Renewable House is being delivered by the NNFCC with funding from the Department of Energy and Climate Change (DECC). The house is being Project Managed by contractor The Linford Group who are managing the design development and construction. They are working with design partners Empyer Homes and Archial Architects.

The key building material, Hemcrete®, is being provided by product manufacturer Lime Technology and the development is being overseen by client's agent Benchmark Property.

Once completed the house's performance will be monitored over a three year period in order to establish evidence of the performance characteristics and the sustainability profile of renewable building materials. It is anticipated the development will demonstrate that low costs and renewable building methods are compatible and together they provide a viable method of delivering sustainable, affordable homes.





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Key Partners





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Drivers & Issues





Objectives

- To build a low carbon building using renewable materials
- Demonstrate carbon saving and energy sequestration
- Act as an exemplar for renewable materials and construction techniques
- Low cost construction
- Derive performance data



Why?

- Raise awareness
- Prove technical performance
- Increase confidence

- Confirm availability of raw materials

- Cost models



Thank You



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Building sustainable supply chains