

Breakthrough eco-building solutions unveiled in London

A range of breakthrough eco-building solutions which tackle the emerging problem of indoor air quality have been presented by the [ECO-SEE project](#) at the Ecobuild construction fair in London.

The solutions include novel insulation, coating and panel products which improve air quality by passively regulating humidity, capturing VOCs, and removing indoor organic pollutants through photocatalysis. External and internal wall panels have also been developed, in addition to design tools to support end users.

50% improvement in energy performance

The natural solutions, made predominantly from local, renewable materials, also boost all-round indoor environmental quality by buffering noise and enhancing energy efficiency.

“Based on performance data collected during the project, the ECO-SEE solutions can offer a 50% improvement in energy performance and a 20% reduction in embodied energy compared to reference materials”, predicts coordinator Pete Walker, from the University of Bath. Test data has also shown that the products have a 20% better material performance than existing solutions.

The Ecobuild fair gave project partners the chance to present the solutions to industry. As well as insulation products (from hemp, sheep’s wool and recycled paper) with enhanced VOC capture, and improved lime and clay coatings, low VOC and photocatalytic panel products were also on show.

New project booklet and video

During the fair a project video was also premiered, as well as a [new ECO-SEE booklet](#). They explain the entire process of the project, which has seen world class researchers join forces with industrial players to advance the state of the art in eco-materials for construction.

Notes: The ECO-SEE consortium brings together a multidisciplinary team of world-class researchers from universities (Bath (UK), Aveiro (Portugal), Bangor (UK), IIT Delhi (India)) and research organisations (BRE (UK), Fraunhofer IBP (Germany), Tecnalia (Spain), Wood Technology Institute (Poland)) with a number of large enterprises (Acciona (Spain), BCB (France), Environment Park (Italy), Kronospan (UK) and Skanska Group (UK)), innovative SMEs, (Claytec (Germany) and European Associations (Greenovate! Europe (Belgium)), whose combined expertise and capacity will lead to commercial development and exploitation of the products developed. The project has received funding from the European Union’s Seventh Framework Programme for research, technological development and demonstration under grant agreement no 609234.

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