

International Conference on Sustainability in Energy and Buildings

Invited Sessions

Title of Session:

Low-impact strategies and solutions in design and construction of the built environment

Name of Chair: Dr. Mahmood Alam University of Brighton, UK

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Description:

Buildings' contribution to depletion of energy and material depletion is well-evidenced and with the ever increasing climate change effects, achieving energy efficiency in buildings is gaining momentum more than ever before. This is widely acknowledged as one of the key solutions to reduce environmental impacts of buildings in general and their energy consumption in particular. Energy efficiency involves a wide spectrum ranging from human factors to design and technological solutions. Some of these factors depend on user perceptions or user behaviour hence subjective or essentially context-specific in nature while the others can be more objectively monitored, measured, designed or improved; those such as low-impact, passive or integrated architectural design solutions, innovative materials, future proof retrofit measures and advanced building services just to name a few. With reasonable adaptations and adjustments, these technological and design factors can be optimised effectively, generalised and applied universally across different regions or climates and to different building types where the user usage and behavioural pattern can then be added as another layer of data for more case-specific studies locally.

This invited session concentrates on the directly quantifiable and measurable technological and design factors with a potential to lower the impact of the built environment, providing a platform for international academics, researchers, designers, engineers, facilities and energy managers and policy makers to present their research findings on the state-of-the-art and upcoming trends related to energy efficient and low-impact design approaches, strategies and solutions ranging from materials and details from building to urban scale.

Submission of Papers for Review (complete papers, not abstracts): see conference deadline

Notification of Acceptance: see conference deadline

Upload of Final Camera-Ready Publication Files: see conference deadline

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