

## International Conference on Sustainability in Energy and Buildings

### Invited Sessions

**Title of Session: Design for Energy**

**Name of Chair: Yusuf Arayici**

**Description:** The purpose of this special session is to bring together the research and developments for energy efficient building design to reflect the state-of-the art for support and facilitate the transition to an energy efficient and low carbon economy and society. The special session invites papers on implementation and use of ICTs such as BIM and GIS (Building Information Modelling) that can support stakeholders to both design and construct energy efficient buildings to minimising energy waste and contributing to a sustainable energy infrastructure at both building and city levels.

The special session will address a range of challenges such as

- the automatic generation of building information models that can be used as the basis for enhancing energy efficiency in buildings,
- a collaborative design environment to optimise energy efficiency with support from multi-disciplinary experts and simulations,
- creation of an innovative user-led (not supplier led) smart metering system to support effective management of high quality living standards with reduced energy demands and CO2 emissions,
- Implementation of an energy efficiency simulation environment that takes behaviour of building users into consideration.

Special session invites papers from academia and industry. The special session aims to publish highly innovative ICT systems that offer a range of virtual spaces for energy-efficient design, decision support and energy performance control and optimisation by monitoring, assessing and encouraging changes in user behaviour.

**Website URL (if any):**

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