

## International Conference on Sustainability in Energy and Buildings

### Invited Sessions

**Title of Session:**

Sustainability and social responsibility in social housing

**Name of Chair:**

Fernanda Rodrigues, Civil Engineering Department, University of Aveiro, Portugal

**Description:**

In spite of being currently considered a high energy consumer and producer of great amount of CO<sub>2</sub> emissions, the importance of building sector in achieving carbon savings is amply illustrated by the analysis of the IPCC, offering high cost effective opportunities to reduce energy demand, while contributing to meeting other key sustainable development goals including poverty alleviation, energy security, and improved employment.

World Health Organization concluded that the majority of the population in European Countries lives under the comfort temperature of 18°C, especially due to economic factors, leading to serious consequences for inhabitants' health. Social housing plays an important role in the fulfilment of housing needs of low income people. The lack of quality and durability of social housing in Portugal, mainly constructed during the 70, 80 and 90s almost never been under specific programs supporting its refurbishment lead to its constructive, urban and social degradation. The entities responsible for the management of this housing stock must have reliable tools that enable the identification of interventions needs. Social housing is a specific sector in the context of the residential buildings retrofit and its low income population lead to refurbishment strategies that ensure thermal comfort without or with reduced energy consumption mainly focusing on passive thermal comfort, hydric efficiency followed by preventive maintenance actions.

This session will be an opportunity for international researchers, engineers, architects, building management services (including maintenance and facility management) energy managers, designers and other stakeholders to discuss the interventions in the social housing sector aiming to achieve beyond a sustainable performance also to combat poverty.

A list of possible topics is:

- Anomalies and durability of social housing
- Energy and hydric efficiency as poverty alleviation factors
- Buildings maintenance and facility management
- Refurbishment and retrofit measures

**Website URL (if any):**

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