Special Issue

Building Energy Performance Measurement and Analysis

Message from the Guest Editors

An important scientific and technological deadlock in the field of energy in the built environment is the measurement and analysis of the actual energy performance of buildings. Current claims of energy efficiency for buildings are too often based on theoretical models, speculative assumptions, and unconfirmed extrapolations. It is, however, essential that the energy-efficient technologies used in buildings do more than simply satisfy regulations based on theory. They must make genuine, measurable differences in real-world applications. Ensuring that real performances match design performances is critical. This requires reliable methods and procedures applicable to real life data in order to ensure that the real performances match the design performances. Recently, statistical methods and system identification techniques were shown to be promising tools for characterizing and assessing the as-built performance of buildings and building components. This Special Issue of *Energies* is dedicated to the measurement of the energy performance of the building envelope during commissioning and during normal operation.

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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