

Special Issue

Emerging Trends and Challenges in Zero-Energy Districts

Message from the Guest Editors

Cities are home to more than 50 percent of the world's population, generate 80 percent of global GDP, consume two-thirds of global energy, and are responsible for more than 70 percent of annual carbon emissions. In light of the potential for further increases in these figures, it is imperative to adopt a sustainable approach to energy rehabilitation and energy efficiency. This should extend beyond the scale of individual buildings to encompass entire neighborhoods or districts. It is imperative that an interdisciplinary and holistic approach be adopted. At the European level, initiatives such as Renewable Energy Communities and the first Positive Energy Districts are emerging. Meanwhile, at the international level, sustainability certifications are spreading from the neighborhood to the urban scale. Examples of this include LEED for Neighbourhood, LEED for Cities, BREEAM Communities, and CASBEE for Cities. This Special Issue has been designed to bring together research and new methodologies that are focused on energy redevelopment and sustainability. In particular, it will consider work at the neighborhood level and above.

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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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