

Special Issue

Smart Cities and the Need for Green Energy

Message from the Guest Editors

There is a need to develop smart cities and green energy if we are to achieve net-zero emissions goals. The use of clean energy sources, specifically solar energy, micro-wind energy, hydrogen fuel, heat pump, geothermal energy, storage, and other technological innovations, are tools to support the development of city ecosystems oriented towards intelligent approaches. The focus of smart city development is based on citizens' behaviors: it becomes crucial to improve aspects related to the energy consumption of residential buildings, offices and industries. Additionally, there is a need to promote services related to city livability and resilience actions aimed at reducing environmental impacts for citizens (such as waste management, energy and transport management systems). Opportunities related to improvement and innovation are geared toward the study of the urban system and the impacts generated by the lives of citizens where energy consumption must be efficient or produced in an environmentally friendly fashion. An important aspect is the analysis of energy storage of urban systems, where consumption is very often not aligned with green energy production.

Guest Editors

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Deadline for manuscript submissions

closed (5 June 2025)



Energies

an Open Access Journal
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Impact Factor 3.2
CiteScore 7.3



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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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