

Special Issue

Energy Transition in Sustainable Buildings

Message from the Guest Editors

The construction industry requires significant energy upgrades. Retrofitting energy-heavy buildings, like commercial properties, can help lower operational expenses and minimize their environmental impact. Improving technological systems and building envelopes plays a key role in reaching these objectives. An energy community facilitates the sharing of energy produced from renewable sources and creates neighborhoods that are able to sustain themselves from an energy point of view. This special issue explores innovative strategies, technologies, and policies driving the shift toward energy-efficient and renewable energy-integrated buildings. Topics include advancements in smart building design, decarbonization of heating and cooling systems, integration of solar and geothermal energy, and the role of digital tools like AI and IoT in optimizing energy use. Contributions also address socio-economic challenges, policy frameworks, and lifecycle assessments to ensure equitable and scalable solutions. By bridging research and practice, this issue aims to accelerate the adoption of sustainable practices, fostering resilient, net-zero built environments for future generations.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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