



## Research on Sustainable Energy Performance of Green Buildings

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### Message from the Guest Editor

Dear Colleagues,

The promotion, construction, and management of buildings throughout their life cycle is one of the most relevant factors in the challenge of preserving our planet and bequeathing it in the best environmental condition to future generations. The space in this Special Issue focuses mainly on:

- Management technologies that lead to demonstrable energy savings;
- Passive conditioning systems;
- HVAC systems;
- Sanitary hot water production (DHW) and storage tanks;
- Alternative energies—photovoltaic panels, geothermal energy, aerothermal energy, wind turbines, solar cooling;
- Radiant systems—PPR capillary tube mats;
- Water cycle management;
- Prioritization of investments and circular economy.

Multidisciplinary research on buildings during their life cycle is expected in various areas, such as recyclable and low embodied energy materials or building technologies. The aim is to compile high-quality articles to promote the development of low-energy, low-CO<sub>2</sub>-emission, and environmentally friendly buildings.

Prof. Dr. Víctor Echarri Iribarren





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## Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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