

Special Issue

Advancements in HVAC Technologies and Zero-Emission Buildings

Message from the Guest Editors

This Special Issue explores recent developments in HVAC technology and their contribution to the design and operation of Zero Emission Buildings (ZEBs), providing insights into new efficiencies, renewable energy integration, and intelligent control strategies. Special Issue including, but not limited to, the following topics:

Smart HVAC solutions utilizing IoT and AI for optimized performance.

Renewable energy integration in HVAC design.

Strategies for real-time monitoring and control of energy consumption.

Case studies demonstrating successful energy optimization in existing buildings.

Architectural designs that facilitate the zero-emission performance of HVAC systems.

Passive strategies that complement HVAC technologies with ZEBs.

Encourage the development of zero-emission design and integration of advanced HVAC technologies.

Health implications of HVAC design choices in zero-emission buildings.

Sustainable materials and practices in HVAC installations.

Strategies for engaging building occupants in energy-related emission reduction practices.

Guest Editors

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Deadline for manuscript submissions

20 September 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/221294

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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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