



Zero-Energy Buildings

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Message from the Guest Editor

The zero-energy building (ZEB) target has been the driver for a large amount of research activities over the last six years in the field of building energy performance.

ZEB design typically requires a holistic approach; its target can be reached with the best combination of envelope, systems, energy sources, under technical and financial constraints.

The topics of interest in this Special Issue include (but are not restricted to):

- Construction materials and envelope technologies for the optimization of the envelope of ZEBs;
- New and integrated primary and secondary systems for ZEBs;
- New building integrated renewable energy technologies;
- Lighting design studies in ZEBs;
- Automation, control and smart systems into ZEBs;
- The role of user behavior and ZEBs in operation;
- Measurements, monitoring and verification of ZEBs;
- Integrated design processes and integrated performance of ZEBs;
- Energy retrofit of existing buildings towards the ZEB target
- National and regional legal matters, barriers to the implementation of the ZEB target.





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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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