



Balancing Building Energy Performance/Efficiency and Sustainability with Indoor Environmental Quality

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Message from the Guest Editors

Energy and the indoor environment are two important aspects of environmental and energy certification systems for sustainable buildings around the world, although different rating schemes may have different weightings on these aspects.

The design strategies that sustainable buildings commonly adopt include reduced infiltration, increased use of building insulation and thermal mass, improved HVAC energy efficiency, the inclusion of passive and bioclimatic design strategies, adoption of renewable energy technologies, etc.

This Special Issue of Sustainability aims to collect scientific contributions and evidence in the new approaches and technologies of building energy efficiency and sustainability that can enhance the indoor environmental quality of buildings. For example, hybrid PV/T systems and green roof systems that improve the thermal performance of buildings, indoor living wall systems that reduce HVAC energy use and improve the air quality, smart windows which reduce lighting energy use and improve visual comfort, etc. The energy and IEQ benefits can be evidenced in terms of laboratory experiments, field tests, or simulation studies.





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Message from the Editor-in-Chief

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