Special Issue

Renewable Energy and Energy Efficiency Technologies towards Net-Zero Energy Buildings (NZEBs)

Message from the Guest Editors

Net-zero-energy buildings (NZEBs), which produce at least as much energy as they use in a year, are expected to play a key role in building energy savings and have attracted increasing interest all over the world. Many countries have set long-term goals to achieve NZEBs for a sustainable future.

NZEBs are realized through minimizing the building energy demand or increasing renewable energy generation. A good NZEB should first encourage energy efficiency to minimize the building energy demand and overall environmental impact. The renewable energy technologies for NZEBs include solar energy systems, wind energy systems, biomass energy systems, etc., while the energy efficiency technologies for NZEBs include improved building designs, advanced HVAC (heating, ventilation, and air-conditioning) systems, DHW (domestic hot water) systems, etc. Advancements in both renewable energy technologies and energy efficiency technologies will propel broader and better implementation of NZEBs throughout the world.

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Editor-in-Chief

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