



## Sustainability Management Strategies and Practices for Zero-Carbon Datacenters

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Deadline for manuscript  
submissions:  
**closed (12 March 2024)**

### Message from the Guest Editors

Dear Colleagues,

Datacenters are energy intensive, requiring a great deal of energy and resources. Various estimates have suggested that datacenters account for 2% of the world's energy consumption—roughly equivalent to the aviation industry. Many organizations seek to cut back the energy consumption with the goal of eventually reaching net-zero carbon emissions. Hence, it is important and necessary to understand how to improve the datacenter sustainability with the right design and practices.

The goal of this Special Issue is to look at and share recent advances in the advancement of sustainability management in zero-carbon datacenters. Specifically, the aim of relevant research is to realize the all-round closed-loop of carbon management processes, such as carbon inventory, carbon verification, carbon trading, carbon transformation, and carbon evaluation in datacenters, to investigate the trading mechanism datacenters participating in the electricity-carbon market to achieve zero carbon targets, and to build a multi-faceted and multi-level intelligent governance system for zero-carbon datacenters.





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## Message from the Editor-in-Chief

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