

Special Issue

Renewable Energy and Cooling Systems: Technologies, Market and Sustainable Development

Message from the Guest Editor

For decades, space cooling demand has increased steadily worldwide, and is expected to rise even more in the coming years (2030/2050). This is true especially for the residential sector, where a significant increase of space cooling consumption in future is expected. To face this rising trend, we need to understand how to best meet actual and future demand while investigating the implementation of innovative, efficient space cooling solutions (best available technologies). In this context, comfort, lifestyle, and user behaviour indications for different territories, demand-side management/demand response measures, as well as economic, policy, and legal/regulatory conditions are relevant. Natural, passive, and free cooling (including nature-based solutions) is an important part of the special issue, due to being largely unexplored so far and their high-deployment potential.

- space cooling consumption
- planning
- comfort, lifestyle and user behaviour
- residential sector

Guest Editor

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