Special Issue

State-of-the-Art Thermal Energy Storage Systems

Message from the Guest Editors

A thermal energy storage system (TES) accumulates energy when production exceeds demand, allowing it to be used later. Depending on the user's needs, stored energy is available for use in heating and cooling applications, as well as for power generation. The current state of technology allows thermal energy to be stored in many ways, including sensible heat, latent energy, or thermochemical energy. Industrial processes can be made more energy efficient with TES systems in commercial and residential settings, thus eliminating the need to supply additional energy streams. This Special Issue on “Advances in Thermal Energy Storage Systems” intends to present novel examples of pioneering thermal energy storage systems. Topics include but are not limited to:

- Advances in TES design;
- Numerical simulations;
- Renewable energy sources;
- Photovoltaic systems;
- Innovative TES applications;
- Phase change material;
- Clean energy.

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Deadline for manuscript submissions

closed (5 January 2024)

Processes

an Open Access Journal by MDPI

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CiteScore 5.5

mdpi.com/si/138239

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