



State-of-the-Art Thermal Energy Storage Systems

Guest Editors:

Dr. Fabio Nardecchia

Dept. of Astronautical Electrical
and Energy Engineering – DIAEE,
Sapienza University of Rome,
00184 Rome, Italy

Dr. Laura Pompei

Department of Astronautic,
Electric and Energy Engineering
(DIAEE), Faculty of Engineering,
Sapienza University of Rome, Via
Eudossiana 18, 04100 Rome, Italy

Deadline for manuscript
submissions:

closed (5 January 2024)

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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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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