Special Issue

Heat Storage in the Deep Underground

Message from the Guest Editors

This Special Issue will serve as a guide for tackling new frontiers in Geothermal Energy utilization. It aims at highlighting the important role of heat storage from a future climate-neutral society in the light of fluctuating renewable energies and seasonal variations in heat demand.

It will include the presentation of concepts, methods, and results related to heat storage in the deep underground. Among others, aspects in concepts may include high-temperature heat storage, coupling of heat production and storage, coupling of other sources of renewable heat and geothermal storage, as well as coupling with other sectors. Methods may cover numerical studies on the storage capacity or performance of the reservoir, experimental studies or sites, specific developments in exploration for storage, developments in drilling and engineering, as well as operation. This Special Issue aims at reporting new results from pilot plants and demonstrators, including exploration, design, testing, operation, and long-term experience. Finally, we would like to solicit contributions on new concepts on interaction with the public in the framework of heat storage installations in the deep underground.

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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