

Special Issue

New Challenges in Geothermal Energy Storage

Message from the Guest Editor

Rising concerns about climate change and energy market instabilities have motivated the global urge for transitioning to renewable resources. While the production costs of renewable alternatives are becoming increasingly favorable, their feasibility is usually restricted by their intermittent nature, which can only be overcome through implementing storage technologies. Geothermal energy storage is a viable solution in the provision of renewable electricity, heating, and cooling in residential, commercial, and industrial applications. Ground-coupled heat exchangers can be used to establish thermal storage solutions. Excess solar or wind power can be converted to heat to be stored. Stand-alone geothermal energy systems and hybrid combinations with other renewables can improve the productivity, flexibility, and feasibility of the overall energy system. This Special Issue aims to address the technical, economic, environmental, and social challenges associated with geothermal energy storage systems. We invite researchers, academics, and industry experts to submit their most recent findings relevant to the new challenges in geothermal energy storage.

Guest Editor

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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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