Special Issue

Advances in the Utilization of Underground Energy and Space

Message from the Guest Editors

With the globally recognized target of carbon neutralization and carbon peak, the question of how to efficiently utilize underground energy and space has become a hotpot and focus in the study of science and engineering. This Special Issue aims to present and disseminate the most recent advances related to the theory, design, modelling, tools, application and engineering practices of all the topics associated with the utilization of the underground energy and space. Topics of interest for publication include, but are not limited to:

- All aspects of underground energy storage, including salt cavern energy storage, pumped storage power stations, compressed air energy storage in underground space, and depleted reservoir gas storage.
- CCS or CCUS in aquifers, salt caverns, depleted reservoirs, coal beds, shale fracturing, and others.
- Utilization of abandoned underground mining space.
- Construction theory and technologies of underground space for utilization.
- Safety and economic evaluations for underground space and energy utilization.
- Other topics related to the Special Issue.

Guest Editors

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Deadline for manuscript submissions

closed (8 September 2023)

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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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