



Geological Engineering Problems and Technologies in Sustainable Energy Development

Guest Editors:

Dr. Qiang Sun

College of Geology and
Environment, Xi'an University of
Science and Technology, Xi'an
710054, China

Dr. Weiqiang Zhang

School of Resources and
Geosciences, China University of
Mining and Technology, Xuzhou
221116, China

Dr. Yuliang Zhang

School of Civil and
Transportation Engineering,
Hebei University of Technology,
Tianjin 300401, China

Deadline for manuscript
submissions:

31 May 2024

Message from the Guest Editors

Dear Colleagues,

Using underground spaces for energy storage and development and making full use of coal to develop and comprehensively utilize remaining resources may be a potential approach to achieving the sustainable utilization and storage of energy, which strongly supports the national dual-carbon goal and energy security strategy.

The scientific connotations of using underground spaces to produce and store renewable energy gas includes three aspects. The anaerobic underground space structure left after coal development can be fully utilized as the energy storage site for renewable energy gas, and the underground space of the mine can be fully recycled. Organic waste is used for secondary clean use; in the process of sustainable energy development, the efficient use of energy can also be achieved. Therefore, energy storage has become a key goal in achieving the development of renewable energy. This will surely promote the development of green energy.

The purpose of this Special Issue is therefore to collect recent state-of-the-art research and review articles on geological engineering problems and technologies in sustainable energy development.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [GeoRef](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (*Geography, Planning and Development*)

Contact Us

Sustainability Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](#)