



Advanced Intelligent Monitoring Methods in Exploitation of Deep Green Energy Resources

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Message from the Guest Editors

From a global perspective, achieving peak carbon dioxide emissions and carbon neutrality has become an impending mission for the shared future of the human community. Deep green energy resources, which come from the deep earth or deep sea, include geothermal energy, shale gas, coal-bed methane (CBM), natural gas hydrate (NGH), etc. Advanced intelligent monitoring methods are urgently needed to harvest green energy and lower costs and with less environmental risk. In addition, the efficient exploitation of deep green energy resources can be facilitated by the use of carbon capture, utilization, and storage (CCUS) concepts or the implementation of underground hydrogen storage (UHS) and the intelligent monitoring of fluid (i.e., CO₂, H₂) migration becomes paramount to avoiding geological risks such as fluid leakage and fault activation.

This Special Issue aims to collect high-quality review and original research articles focusing on the advanced intelligent monitoring technology applied to the exploitation of deep green energy resources from deep earth or deep sea.





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