Special Issue

Enhanced Geothermal Systems: Potential for Geothermal Energy Production

Message from the Guest Editors

Dear colleagues, Enhanced geothermal systems (EGSs) represent a game-changing breakthrough in geothermal energy exploration and production, allowing for higher heat extraction from dry or low-permeability rock formations. Such a process aims to stimulate the reservoirs by injection and creating artificial fractures to gain higher productivity. Therefore, EGS can harness geothermal energy in regions previously considered unsuitable for geothermal power generation. This technology has the potential to significantly expand the global availability of clean and renewable energy, reduce greenhouse gas emissions, and provide a reliable baseload power source. By advancing DL-based solutions for reservoir characterization, fracture modeling, real-time monitoring, and sustainability assessment, researchers can accelerate the deployment of EGSs and contribute to a cleaner, more sustainable energy future.

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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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