Special Issue

Thermal Response Tests for Shallow Geothermal Systems

Message from the Guest Editors

Geothermal energy has become essential in the current energy sector, as it is the only renewable source independent of solar radiation and/or the gravitational attraction of the sun and moon. This energy is especially important in the heating and cooling sector by use of low enthalpy geothermal resources. However, without an effective thermal characterization of the ground, the correct and continuous operation of the geothermal system is difficult to achieve. In this context, thermal response tests (TRTs) are commonly used in the determination of the surrounding ground thermal conductivity. The implementation of these tests means an important improvement of the global system operation, at the same time involving a high increase of the initial investment. This Special Issue aims to collect original research or review articles on different solutions and devices focused on the thermal characterization of the ground. Different variations of the traditional thermal response tests will be considered for publication in this Special Issue.

Guest Editors

Prof. Dr. Diego González-Aguilera

Dr. Cristina Sáez Blázquez

Dr. Ignacio Martín Nieto

Deadline for manuscript submissions

closed (31 March 2023)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/35569

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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