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Thermal Response Tests for Shallow Geothermal Systems

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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.



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Special Issue



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Message from the Editor-in-Chief

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