



*energies*



an Open Access Journal by MDPI

## Shallow Geothermal Energy 2023

Guest Editors:

**Prof. Dr. Javier F. Urchueguía**

School of Industrial Engineering,  
Polytechnic University of  
Valencia, Camino de Vera s/n,  
46022 Valencia, Spain

**Dr. Borja Badenes**

Information and Communication  
Technologies versus Climate  
Change (ICTvsCC), Institute of  
Information Technologies and  
Communications (ITACA),  
Universitat Politècnica de  
València (UPV), Camino de Vera  
s/n, 46022 Valencia, Spain

Deadline for manuscript  
submissions:

**30 November 2024**

### Message from the Guest Editors

Dear Colleagues,

Shallow geothermal technology, often termed as ground source heat pumps (GSHP), is among the renewable heating and cooling technologies, one that offers a one-in-all approach to the urgent necessity of systems that are at the same time efficient, renewable, and highly integrable with other RES as well as within the existing electricity grid. In recent years, much research has been focused on critical areas to improve the cost, efficiency, and social acceptance of these systems, still finding serious barriers that hinder a more generalized adoption by different stakeholders. This Special Issue, thereafter, includes but is not necessarily limited to the following list of topics:

- Open and hybrid systems and integration with other renewable energy sources;
- Integration in the built environment;
- Advances in design of systems;
- Thermal response testing;
- Improvement in materials;
- Advances in drilling and installation methods;
- Mapping of resources;
- Social acceptance;
- Life cycle cost analysis and other analytic methods.



[mdpi.com/si/137719](https://mdpi.com/si/137719)

# Special Issue



# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## Message from the Editor-in-Chief

*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.

## Author Benefits

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

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (*Engineering (miscellaneous)*)

## Contact Us

---

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

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://x.com/energies_mdpi)