



Sustainable Geothermal Energy

Guest Editors:

Dr. Lorenzo Talluri

Department of Industrial
Engineering, University of
Florence, Florence, Italy

Dr. Fausto Batini

Geothermal Energy Consulting
s.r.l., 56045 Montecerboli, Italy

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Message from the Guest Editors

Shallow geothermal power plants are suitable for low temperature heat generation. Deep geothermal exploration enables the conversion of geothermal heat in electricity. The sustainability of geothermal energy becomes a pivotal objective in relation to the meeting of the expected climate goals, playing an important role in the reduction of greenhouse gas emission and environmental pollution. In addition, the coupling of a smart energy strategy with a possible utilization of subsurface energy storage is bound to boost the green energy scenario.

The purpose of this Special Issue is to collect recent state-of-the-art research and review articles on sustainable geothermal energy systems. The topics of interest include but are not limited to: “Closed-loop” total reinjection—zero emissions power plants; Emission reduction from existing geothermal power plants; Life cycle assessment of geothermal power plants; Smart storage geothermal solutions; Sustainable geothermal systems; Integration of new technologies for geothermal enhancement; Toward a 100% renewable energy scenario; and Shallow geothermal applications.





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Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

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Sustainability Editorial Office
MDPI, St. Alban-Anlage 66
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