

Latest geothermal technology trends



Overview

Enhanced geothermal systems could provide constant, low-cost, clean electricity while reducing land use and infrastructure needs in a global renewable energy transition. The technology could replace coal and nuclear as a baseload power source and support growing electricity demand. Following a successful Geothermal Innovation Days in Strasbourg (3 - 4 December 2025), ETIP Geothermal is proud to present the second edition of the Geothermal Innovation Trends report, which has been produced in partnership with the European Geothermal Energy Council (EGEC). The geothermal sector. Geothermal systems, particularly ground-source heat pumps (GSHPs), exhibit high energy efficiency, with coefficients of performance (COP) ranging from 3.0, while deep geothermal systems operate at temperatures of 50°C–200°C, supporting both power generation and large-scale heating. A Stanford study finds that adding geothermal power cuts wind, solar, and battery capacity requirements while keeping energy costs low. Conventional geothermal electrical generation only works where naturally permeable, water bearing hot rock exists close enough to the surface. Get ThinkGeoEnergy in your inbox today! We use cookies on our website to give you the most relevant experience by remembering your preferences and repeat visits. By clicking “Accept”, you consent to the use of ALL the cookies.

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Study highlights geothermal energy's role in clean power shift

These enhanced geothermal systems (EGS) could play a valuable role in the global transition to clean, renewable energy and for powering new data centers by significantly reducing ...

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Recent progress and emerging technologies in geothermal energy

Geothermal energy has gained prominence as a sustainable solution for heating and cooling, driven by technological innovations and the growing global demand for energy efficiency.



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Unlocking larger flow and higher temperature with enhanced ...

In 2025, enhanced geothermal systems advanced from demonstration to commercial-scale deployment, supported by continued improvements in drilling and well performance.

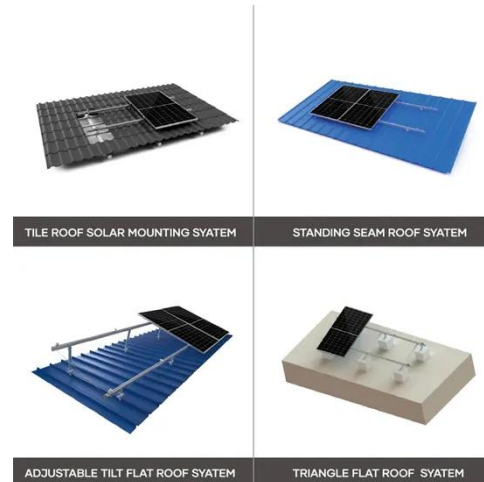


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Geothermal Innovation Trends 2025

This 2025 report on Geothermal Innovation Trends covers general trends with a particular focus on innovations in terms of 'market ready' technologies and first demonstrations of ...

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When Next-Generation Geothermal Meets First-of-a-Kind Reality

Closed-loop geothermal promised scalable, firm energy. Early data from Eavor's German project shows where physics, cost, and drilling risk intersect.

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How Clean, Next-Gen Geothermal Could Power The World 140 Times ...

Geothermal power has long been the forgotten sibling among renewable energies, even though it provides dependable electricity in places like Iceland and California. Now, that is beginning ...



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ThinkGeoEnergy

Halliburton to support geothermal drilling operations of KS Orka in Indonesia Japan, New Zealand to conduct joint research on shallow and



deep geothermal connectivity

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The future of next-generation geothermal energy , McKinsey

Next-generation geothermal energy approaches can be deployed in many more locations, and thanks to recent technological advances, they are on a trajectory to become cost ...

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Enhanced geothermal systems: 10 Breakthrough Technologies 2024

Enhanced geothermal systems have been in development since the 1970s. Recent advances show that they could dramatically increase production of renewable energy. Fervo Energy ...

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Geothermal investment soars 85% as breakthrough tech unlocks 500 ...

Wood Mackenzie's latest Geothermal Market Update reveals that next-generation technologies including enhanced geothermal systems (EGS),

advanced geothermal systems (AGS), ...

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