EVENT INFORMATION

EVENT CODE (EXC. YEAR)

Please only enter the code in letters for e.g. DSA, WLSG etc.
Web Team to notify if there is a conflict.

EGU

EVENT YEAR:

YYYY, for information purposes.

2026

INTERNAL EVENT NAME AND YYYY (FOR ALL NOTIFICATIONS)

As it should appear on internal notifications.
Example: Asia-Pacific Deep Sea Mining Summit 2024

Enhanced Geothermal Systems 2026

ANNUALISATION (OPTIONAL TO USE FOR DESIGN TEAM)

Please check internally if this event can be advertised for successive events.
Example: 3rd Annual Drug Delivery Summit 2025

2nd Annual

SUB-DOMAIN (FOR NEW REGIONS ONLY):

For repeat events, do not complete this section. The previous years domain or sub-domain will be used.
For new regions, please enter the sub-domain to be configured below.
Example: www.jamaica.deepsea-mining-summit.com

Check with SM

NOTIFIED GRAPHICS TEAM TO UPDATE EVENT LOGO (IF REQUIRED)

- [x] **Yes, notified graphics team to update the logo.**
  This event requires a YEAR change. Video not required. (Example: AFS 24 to AFS 25)
- [ ] **No, nothing required.**
  This event is using the same event logo (and year) as another region. Example AFS 24 to CFS 24.

PREVIOUS OR RELATED-EVENT (IF CONTENT IS MISSING BEFORE GOING LIVE)

Nearest related event from which to copy content from. Examples: Past Attendees, Expert Speakers, Meet the Leaders, Testimonials, or Speaker's photos and biographies.

DLU 24

NOTIFIED GRAPHICS TEAM TO PROVIDE SPONSORS' LOGOS

- [x] Yes
- [ ] No

DATE FORMAT:

For all purposes, including banners and marketing materials.

US - Month-date-year

EVENT DAY 1	EVENT DAY 2
March 11	**March 12**

EVENT LOCATION:

City, State/Country, Country Only (for banner)
As it should appear on banners, etc.
Examples: Los Angeles, California, USA or Amsterdam, The Netherlands

Houston, Texas, USA

EVENT COUNTRY/REGION:

The country or broader region the topic represents. This is useful for meet the operator fixed-list.
Examples: Australia, United States, Canada, Thailand, Indonesia, Philippines. However, it should be Europe (Germany, France, United Kingdom, etc) Asia-Pacific (For Singapore events), Africa (For South Africa events), Middle-East (For UAE events), South America (For Brazil, Argentina events) etc.

United States

ENHANCED GEOTHERMAL SYSTEMS 2026

Month Date - Date, YYYY | City, State, Country

VIEW PROGRAM ↗
Discover the event highlights

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MEET OUR FEATURED SPEAKERS

SHOW ALL SPEAKERS →

Ge
e Betech GmbH

Jan Pieper
Ventlex

Tim Leshchyshyn
FracKnowledge

Lucas Weidner
Peterson & Cooke

Jerad W Heitzler
Martin Engineering

ng Tiancheng
roChina

Richard Reeve
Northcott Capital

ADVANCING TECHNOLOGIES IN THE GEOTHERMAL ENERGY SECTOR

Welcome to Enhanced Geothermal Systems 2026, where industry leaders will examine the potential of next-generation geothermal power to transform the U.S. energy landscape.

The energy sector faces challenges with conventional geothermal systems, including limited hydrothermal resources, drilling technologies, production techniques, and heat-to-electricity conversion limitations. This event will spotlight enhanced geothermal systems, focusing on hydraulic, chemical, thermal, and explosive stimulation methods that support innovation in energy production.

Join us to explore advanced solutions, connect with industry experts, and contribute to the future of geothermal energy.

Default Video

KEY TOPICS FOR

Evaluating the economic impact of geothermal energy projects across

Evaluate total project costs, financial viability, manage technical and economic risks, and explore a range of public and private funding options.

Advanced EGS technologies for resource optimization and energy

Examine geological and geophysical factors for EGS reservoirs, along with advanced drilling and stimulation methods to enhance geothermal energy

Key technical aspects and core designs for geothermal plant

Evaluate site selection, heat extraction methods, binary and flash systems, turbine technologies, and control systems to optimize geothermal

Innovative ways to integrate geothermal power plants with the

Analyze geothermal power delivery methods, enhance grid stability, and implement strategies to increase system efficiency.

Latest geothermal regulatory updates on frameworks, permits, and

Assess permitting procedures and regulatory requirements to streamline development and improve the investment appeal of geothermal

In-depth case studies from leading geothermal experts and policymakers

Hear success stories that showcase transferable technologies, robust supply chains, and workforce strategies advancing geothermal project

VIEW PROGRAM

100+ INDUSTRY TOPICS

8+ NETWORKING EVENTS

50+ LEADING EXPERTS

20+ Q&A SESSIONS

EXPERT SPEAKERS

Agung Setyadi
Geo-Dipa Energy

Karl Farrow
CeraPhi Energy

Maada Inani
Ashaw Energy

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PAST ATTENDEES

- ATI
- Pioneer Natural Resources
- CG Thermal
- Chevron
- ExxonMobil
- TotalEnergies
- Technip Energies
- ZAK
- SLB

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Registration is active now.

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THEY'VE ATTENDED OUR EVENTS

Incredible learnings into various technologies and the state of the industry.

Jennifer Zwarich
Alberta Energy Regulator

Great insights into the industry from speakers and highly engaging panel sessions.

Don Mack
Siemens Industry, Inc.

Very informative event; enjoyed discovering different approaches and perspectives.

John Agele
Weatherford

Excellent chance to engage with current industry leaders and experts.

Josh Brownlow
Pioneer Natural Resources

A remarkable event addressing a range of key industry issues.

Pater Voet
Co2LiXhium

Highly knowledgeable speakers sharing diverse insights and detailed analysis.

Michelle Mashava
E3 Lithium

WHO SHOULD ATTEND

The "Who Should Attend" section should be "Source" the Developers, Manufacturers, Companies, Producers etc.

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VIEW MORE →

WHY ATTEND

Enhanced Geothermal Systems 2026 is the only event offering leading market intelligence and presentations on the future of next-generation geothermal systems, alongside updates on current

- In-Depth Presentations from Industry Experts
- Networking Opportunities with Top-Tier Companies
- Generate Leads and New Deals for Your Business
- Meet with Exhibitors from Across the Industry

VIEW MORE →

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UPCOMING EVENTS IN THE SERIES

DLU 25
Direct Lithium Extraction USA 2025
1st 2nd
OR
December 2025
Orange County, California, USA

RSU 25
Reservoir Simulation 2025
3rd 4th
OR
December 2025
Houston, Texas, USA

AFS 25
Frac Sand USA 2026
11th 12th
OR
December 2025
Houston, Texas, USA

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MEET OUR FEATURED SPEAKERS

Jerad W Heitzler
Martin Engineering

Liang Tiancheng
PetroChina

Richard Reeves
Northcott Capital

James K Wicklund
PPHB

Hassan H Fayed
Hammer Kingdom, LLC

Jinyi Ge
Microtec/Retsch GmbH

BENEFITS

Enhanced Geothermal Systems 2026 is the only event offering leading market intelligence and presentations on the future of next-generation geothermal systems, alongside updates on current hydrothermal resources.

Benefits of attending include:

- Two days of in-depth presentations featuring the latest market intelligence supporting enhanced geothermal systems and technologies.
- An exclusive networking opportunity to connect with professionals facing similar challenges and experiences in this evolving sector.
- Updates on regional projects and research from geothermal, oil and gas, and tech experts, sharing insights, key findings, and forward-looking proposals.
- Technical presentations from exploration to development, highlighting recent test results, field trials, and emerging technical knowledge.
- New case studies on geothermal power plant deployment and evolving business models for effective grid integration.
- A unique opportunity to engage with a broad range of end users and identify emerging market opportunities by presenting actionable insights into this rapidly growing industry.

VIEW PROGRAM

KEY TAKEAWAYS

- Gain a clear understanding of current market dynamics in enhanced geothermal systems and how they may impact your business
- Learn how to advance drilling and stimulation techniques to more effectively access geothermal energy
- Hear the latest trends with a year-in-review overview and projections for the years ahead
- Discuss upcoming technological developments aimed at commercializing EGS as a mainstream source of low-carbon energy
- Access diverse ideas and perspectives from multiple markets and allied industries by drawing on practical regional experiences

ADD TO CALENDAR

WHO SHOULD ATTEND?

This event targets geothermal, oil and gas leaders, along with service providers seeking innovative ways to optimize geothermal energy use and attract both national and international investment.

Core Attendees

Core attendees include CEOs, COOs, CFOs, Presidents, Vice Presidents, Directors, Heads of, Superintendents, and Managers involved in:

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Industries & Companies

From the following industry sectors:

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PROGRAM 0000

The Agenda Will Be Released Soon

Interested in speaking at this event? Reach out to sean.collins@iq-hub.com with the event name in the subject line.

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Martin Engineering

Liang Tiancheng
PetroChina

Richard Reeves
Northcott Capital

James K Wicklund
PPHB

Hassan H Fayed
Narmer-Engsim, LLC

Jinyi Ge
Microtrac Retsch GmbH

CALLING ALL SPEAKERS

Enhanced Geothermal Systems 2026 is seeking presentations that focus broadly on the following key topics:

- Evaluating the economic impact of geothermal energy projects across the US
- Advanced EGS technologies for resource optimization and energy production
- Key technical aspects and core designs for geothermal plant operations
- Innovative ways to integrate geothermal power plants with the power grid
- Latest geothermal regulatory updates on frameworks, permits, and incentives
- In-depth case studies from leading geothermal experts and policymakers

Enhanced Geothermal Systems 2026 offers a timely focus on addressing challenges linked to conventional geothermal energy and its integration into the power sector.

SUBMIT YOUR PROPOSAL

BE A PART OF OUR MULTI-DISCIPLINED AGENDA...

Enhanced Geothermal Systems 2026 will provide an opportunity for professionals across relevant disciplines to share accomplishments and exchange perspectives. The event will emphasize networking, relationship-building, and open dialogue around technical expertise, as well as the introduction of modern technologies for geothermal energy, sustainability, and infrastructure. Participants will also have the chance to engage with allied industries and contribute insights into the broader energy sector for mutual benefit.

Join a valuable opportunity to collaborate with industry leaders, share insights, and contribute to the advancement of geothermal energy in a rapidly evolving market.

ADD TO CALENDAR

NETWORK

Connect with industry peers and experts to build valuable relationships. An opportunity to build your professional network in an environment fostering growth and collaboration.

LEARN

Engage with leading tech and businesses in the current landscape. Join industry thought leaders tackling major challenges, and dive into deeper discussions on cutting-edge topics.

LEAD GENERATION

Discover and connect with key industry players relevant to your business. Generate significant leads and broaden your corporate reach, enhancing your presence in the global market.

AMPLIFY

Join an exclusive gathering that draws journalists from top media outlets like Bloomberg, Financial Times, Forbes, and CNN Business. Elevate your message to a global audience.

QUICK PROPOSAL

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Company name *

Proposed title *

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SPEAKER'S PROFILE

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Lorem Ipsum

BIOGRAPHY

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VIEW PROGRAM

EXHIBIT YOUR SERVICES AT ENHANCED GEOTHERMAL SYSTEMS 2026

Enhanced Geothermal Systems 2026 will be one of the largest gatherings in the sector. A broad range of industries, technology providers, and government agencies will come together to showcase products and services aimed at addressing current challenges in project development and policy.

We offer customized sponsorship and exhibitor packages that provide cost-effective ways to reach your current and prospective clients.

EXHIBIT NOW

WHY EXHIBIT AT THE SHOW?

Exposure to Leading Industry Attendees

Maximize your visibility at our state-of-the-art exhibition facilities. Engage with top-tier industry leaders and key decision-makers.

- Exclusive face-to-face interactions with attendees.
- Access to an extensive network of professionals.
- Connect with international industry participants.
- Trade show stands to showcase your innovative products.
- Enhanced exposure from the press and media partners.

Multiple Lead Generation Opportunities

Gain access to meaningful engagement at the event. Our event is a hub for high-level networking and lead generation, attracting decision-makers and industry influencers.

- Special meeting areas for targeted prospect interactions.
- Networking events designed for business expansion and partnerships.
- A platform to engage with a diverse, international audience.
- Dynamic spaces for interactive product and service presentations.
- Opportunities for media features and brand amplification.

Spotlight on Innovation

Showcase your products and solutions at the upcoming event. Our event sets the stage for you to impress the industry's most influential leaders and media. Enjoy benefits like:

- Premium locations for showcasing cutting-edge technologies.
- Exposure to attendees looking for new and innovative solutions.
- Interactive sessions with potential clients and partners.
- Media platforms for gaining worldwide media coverage.
- Bespoke exhibition spaces for standout demonstrations.

OUR SPONSORSHIP CAN HELP YOU

- Introduce your latest products and services to key industry players.
- Boost your brand's visibility and credibility within the market.
- Promote your company's recent innovations and strategic vision.
- Showcase the success of your projects and attract new investment opportunities.
- Meet and network with key decision-makers from multiple industry sectors.
- Strengthen your company's position and recognition in the marketplace.

VIEW PACKAGES

GET IN TOUCH TO BOOK YOUR TRADE SHOW BOOTH

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Phone: +1 206-582-0128

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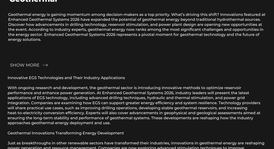
MEET OUR FEATURED SPEAKERS



Geothermal | Exploration | Technology | Commercialization | Sustainability

Geothermal

Geothermal energy is gaining momentum among decision makers as a top priority. What's driving this shift? Innovations featured at Enhanced Geothermal Systems 2026 have expanded the potential of geothermal energy beyond traditional hydrothermal sources. Discover how advancements in drilling technology, reservoir stimulation, and power plant design are opening new opportunities at this year's event. As the global energy landscape shifts toward cleaner, more resilient systems, these innovations are transforming the energy sector. Enhanced Geothermal Systems 2026 represents a pivotal moment for geothermal technology and the future of energy solutions.

SHOW MORE →

Innovative EGS Technologies and Their Industry Applications

With ongoing research and development, the geothermal sector is introducing innovative methods to optimize reservoir performance and enhance power generation. At Enhanced Geothermal Systems 2026, industry leaders will present the latest applications of EGS technology, including advanced drilling techniques, hydraulic and thermal stimulation, and power grid integration. Companies are examining how EGS can support decarbonization goals and strengthen energy security. Tech providers will share practical use cases, such as improving drilling operations, developing viable geothermal reservoirs, and increasing power plant efficiency. These advancements are critical for making geothermal energy more competitive and accessible, aimed at ensuring the long-term stability and performance of geothermal systems. These developments are reshaping how the industry approaches geothermal energy deployment and use.

Geothermal Innovations Transforming Energy Development

Just as breakthroughs in other renewable sectors have transformed their industries, innovations in geothermal energy are reshaping power generation and resource management. Companies are now exploring advanced stimulation techniques to improve geothermal reservoir performance. The next phase focuses on applying emerging technologies to make geothermal systems more accessible, scalable, and cost-effective. Experts are optimistic that these advancements will unlock geothermal's potential to deliver baseload power, support industrial applications, and play a key role in a diversified energy mix. A continuing challenge is integrating geothermal solutions into existing energy systems, improving drilling efficiency, and navigating permitting and regulatory hurdles.

While geothermal innovations are progressing rapidly, established energy management practices such as sensor-based monitoring and predictive maintenance remain critical for ensuring operational reliability. Enhanced Geothermal Systems 2026 will offer a comprehensive look at the current state of geothermal energy and its promising future.

Exploration

The next steps in geothermal energy exploration include advancements in Enhanced Geothermal Systems, new drilling techniques, improved reservoir stimulation methods, and the integration of geothermal power with existing grids to maximize energy output and system stability.

SHOW MORE →

Geothermal energy is becoming a vital part of the global energy transition. The industry's renewable sources have grown environmental and regulatory pressure, the demand for sustainable and reliable alternatives continues to increase. Early geothermal development faced challenges in accessibility and cost-effectiveness, but recent advancements in EGS technology are changing the outlook. Enhanced Geothermal Systems are broadening the reach of geothermal energy by unlocking untapped potential in unconventional areas.

How Geothermal Exploration Is Evolving

Geothermal energy exploration is advancing rapidly, driven by technological improvements in drilling, reservoir mapping, and stimulation methods. As companies work to optimize geothermal resources, they are adopting a more modular approach that combines traditional methods with cutting-edge innovations. These advancements include improved techniques for enhancing hydrothermal energy extraction and basic drilling techniques. Today, advanced methods are enabling deeper exploration, improving heat extraction efficiency, and expanding geothermal energy availability across wider regions.

Companies are now using seismic imaging, geophysical surveys, and thermal mapping to identify promising sites for geothermal development. At the same time, innovative well-drilling, hydraulic fracturing, and chemical stimulation techniques are being applied to increase the permeability of geothermal reservoirs, enabling greater heat exchange and energy production. The integration of digital tools, such as 3D modeling and simulation, is also playing an important role in planning and optimizing geothermal projects.

Future of Geothermal Energy Exploration

The next chapter of geothermal energy focuses on new exploration techniques, advanced drilling methods, and improved reservoir management. Enhanced Geothermal Systems are expanding the creation of artificial reservoirs, making geothermal energy more accessible and less reliant on natural hydrothermal sites. As these technologies mature, the industry is expected to adopt geothermal energy more widely, contributing significantly to the global energy mix.

However, the rapid growth of geothermal exploration faces certain challenges. Regulatory and environmental concerns, high upfront capital costs, and technological risks must be managed to ensure sustainable development. At the same time, there is increasing interest in integrating geothermal energy with other renewable sources, such as solar and wind, to enhance grid stability and continuous power. Stakeholders are also prioritizing community engagement and social responsibility to ensure geothermal projects align with local needs and expectations.

Addressing Challenges in Geothermal Energy Exploration

While the potential of geothermal energy is vast, the industry must overcome several challenges to achieve widespread adoption. Complex permitting processes, environmental impact assessments, and the need for increased investment in research and development are top concerns for industry leaders. Additionally, as the sector advances toward large-scale deployment of Enhanced Geothermal Systems, understanding subsurface conditions, reducing drilling costs, and improving reservoir longevity will be essential.

Despite these challenges, the outlook for geothermal energy remains promising. Enhanced Geothermal Systems 2026 will offer a platform for stakeholders to discuss the latest innovations, share best practices, and explore strategies to advance geothermal exploration and development. The event will highlight how the industry can address current challenges and utilize emerging technologies to drive the next phase of geothermal growth.

Technology

Leaders from the geothermal energy and oil and gas sectors will present at Enhanced Geothermal Systems 2026, where industry experts will showcase innovative technologies driving geothermal energy forward and supporting sustainable energy development. The event will create opportunities for collaboration between industrial processes, helping to build a more resilient and sustainable energy future.

SHOW MORE →

The Trend: Drilling Innovations, Reservoir Stimulation, and Energy Integration

The geothermal energy sector is expanding rapidly. By 2050, geothermal energy is expected to play a significant role in meeting global energy demands, with experts projecting substantial growth in capacity and employment. Current developments aim to enhance the efficiency and accessibility of geothermal energy, with innovations in drilling and reservoir stimulation leading the way. The potential of these technologies is considerable, with Enhanced Geothermal Systems offering a dependable source of baseload power. EGS projects, typically ranging from 10 to 100 megawatts, are already underway, with larger-scale developments anticipated in the coming years.

Geothermal energy applications are expanding to include direct heat use, electricity generation, and industrial processes, such as geothermal heating and cooling systems for buildings, agriculture, and district energy networks. By 2035, geothermal energy is expected to play a key role in reducing dependence on fossil fuels for industrial processes and transportation, with broader integration into energy grids worldwide.

Global companies are investing in geothermal technology, with regions rich in geothermal potential, such as the United States, Indonesia, and the Philippines, leading the charge. These investments are driving innovations in drilling techniques, reservoir stimulation, and innovative well designs, to access deep geothermal resources. Large-scale integration of geothermal energy into power grids is underway, and experts are exploring the potential for decentralized energy supply systems powered by geothermal sources.

European and North American companies are focusing on scaling up geothermal systems to generate electricity and heat, driving new business models. These systems provide solutions for regional energy demands and are being adapted to supply renewable energy to both industrial processes and local communities.

Geothermal Energy Requires Technological Innovation

Technological innovation is essential for advancing geothermal energy. Improvements in drilling technology, reservoir stimulation, and power plant design are critical for enhancing the efficiency and accessibility of geothermal energy. Techniques such as hydraulic and thermal stimulation techniques to increase permeability and improve heat extraction in unconventional reservoirs. Together with advancements in drilling efficiency, these technologies position geothermal energy as a significant contributor to renewable energy markets.

Transporting heat and energy generated from geothermal sources is critical, and technologies like district heating networks are increasingly adopted in areas with significant geothermal resources, in regions with strong geothermal potential, such as the Philippines and Indonesia, these systems provide a reliable and sustainable alternative to fossil fuel-based heating systems, benefiting industries with sustainable energy. The development of smart grids and the integration of geothermal energy into existing energy systems will be essential for the future.

At Enhanced Geothermal Systems 2026, companies will showcase their solutions and products aimed at a climate-neutral energy future, emphasizing the role of innovation in expanding geothermal capacity and overcoming challenges in the energy sector.

Commercialization

The geothermal energy industry is increasingly moving toward commercialization. Enhanced Geothermal Systems are at the forefront of this transition, offering a stable and scalable energy source. Stakeholders across the sector, including geothermal companies, oil and gas leaders, utilities, and service providers, are driving innovation to establish geothermal as a key part of the future energy mix. Advances in EGS and drilling technologies are unlocking geothermal potential in previously inaccessible locations, creating new business opportunities for sustainable energy production.

SHOW MORE →

The Challenges of Geothermal Commercialization

The transition from exploration to commercialization is one of the geothermal industry's biggest challenges. Drilling and reservoir development costs remain high, but technological advances in Enhanced Geothermal Systems are helping to reduce these expenses. Successful commercialization depends on improving efficiency in geothermal production and resource management, ensuring long-term viability and scalability. As the industry matures, the focus is shifting from proof of concept to operational readiness, incorporating innovative drilling technologies, advanced reservoir stimulation methods, and long-term sustainability strategies.

Geothermal energy's potential goes beyond electricity production. It provides direct heating solutions for industrial processes, agriculture, and district heating systems. The cooling sector could be crucial as companies expand their geothermal projects. Optimizing resource management, and focus on lowering overall production costs. Enhanced Geothermal Systems are expected to play a central role in this transition, enabling the geothermal sector to meet the increasing demand for sustainable energy.

The Path to Commercial Success

As geothermal energy continues to mature, commercial success will rely on collaboration across the industry. Companies are partnering to improve drilling accuracy, develop advanced stimulation techniques, and implement efficient reservoir management practices. The path to commercialization also requires navigating complex regulatory frameworks and securing the necessary investments to scale geothermal projects.

At Enhanced Geothermal Systems 2026, leaders from across the geothermal sector will showcase the latest advancements in technology and commercialization strategies. The event will provide a platform for sharing knowledge, discussing best practices, and exploring the future of geothermal energy. As the industry continues to evolve, geothermal energy is set to become a key player in the global transition to renewable energy, with Enhanced Geothermal Systems leading the way.

Commercializing geothermal energy will require innovation, investment, and long-term commitment, but the potential rewards are substantial. Integrating geothermal energy into mainstream energy systems will support global energy security and contribute significantly to reducing carbon emissions and meeting sustainability goals. At Enhanced Geothermal Systems 2026, stakeholders will explore the future of geothermal energy and its role in shaping the clean energy landscape.

Sustainability

Geothermal energy is now a key focus for energy decision makers. What is driving this shift? Growing interest in Enhanced Geothermal Systems is driving the sector's transition toward cleaner, more sustainable energy solutions. As the industry addresses environmental challenges, at Enhanced Geothermal Systems 2026, stakeholders will gather to explore innovations and discuss how the industry can overcome current challenges to unlock new growth opportunities. According to industry leaders, geothermal energy is increasingly seen as a vital solution for achieving energy security and sustainability. This event will highlight a pivotal moment for geothermal technology as it gains momentum in the energy transition.

SHOW MORE →

Advancements in EGS Technology and Industry Applications

The geothermal industry is making rapid advances in EGS technology, improving resource efficiency and broadening the range of viable geothermal projects. At Enhanced Geothermal Systems 2026, industry experts will present the latest applications of hydraulic, chemical, and thermal stimulation methods to enhance geothermal reservoirs and boost energy output.

Leading companies are focusing on innovative drilling techniques, geothermal reservoir management, and power plant designs to optimize energy production and support sustainable development. Experts will also discuss practical applications such as improving drilling accuracy, stabilizing reservoir performance, and integrating geothermal energy with existing power grids. These innovations are reshaping the industry's approach to geothermal energy development and use.

Geothermal Innovations Transforming Energy Development

Just as breakthroughs in other renewable energy sectors have reshaped their industries, innovations in geothermal energy are set to transform the future of power generation. Companies are now applying advanced stimulation techniques to optimize reservoir performance and increase energy extraction efficiency. The next phase involves adopting cutting-edge technologies to make geothermal energy more accessible, scalable, and cost-effective. These advancements will unlock geothermal's potential to deliver baseload power, support industrial applications, and play a significant role in the global energy mix. However, challenges remain, including navigating complex regulatory frameworks, improving drilling efficiency, and ensuring the long-term stability of geothermal reservoirs.

As the geothermal industry evolves, traditional energy management practices such as resource monitoring and predictive maintenance remain vital for ensuring operational reliability. Enhanced Geothermal Systems 2026 will offer a comprehensive view of the current state of geothermal energy and its promising future. Attendees will gain valuable insights into how industry can overcome existing challenges and accelerate growth to meet sustainable energy goals.

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NEWS CATEGORIES

RESEARCH	INNOVATION	INNOVATION
REGULATORY	TECHNOLOGY	INVESTMENT
PARTNERSHIPS	PARTNERSHIPS	INSIGHTS
	MARKET TRENDS	

IMAGE NO.
01

RESEARCH

Underground Energy, Now in Real Time

AltaRock and Fervo deploy fiber-optic sensing to improve subsurface visibility, speeding development and reducing geothermal project risk

21 Feb 2025

SHARE

Geothermal developers in the US have begun using fiber-optic sensing to monitor underground energy flows in real time, a step they say will make geothermal projects faster, cheaper, and more reliable.

The technology, known as distributed acoustic sensing (DAS), converts standard fiber-optic cables into thousands of underground sensors. When installed in geothermal wells, these cables allow engineers to observe how heat, steam, and water move through deep rock layers. Until now, such data was either unavailable or delayed.

“It’s like switching from a map to a live GPS,” said one engineer involved in a June field test. “We can now see exactly how the subsurface behaves as we operate, without pausing the system.”

Companies including AltaRock Energy and Fervo Energy are integrating the system into their new-generation geothermal sites. These sites also feature advanced drilling methods, such as horizontal wells and multi-stage stimulation, aimed at improving output and lowering costs.

The approach has attracted attention from government agencies and large technology firms seeking round-the-clock renewable power. One persistent challenge for geothermal energy has been the lack of precise, continuous monitoring of subsurface activity. Fiber-optic sensing offers a potential solution, improving both operational efficiency and investor confidence.

Regulators are also monitoring the technology’s potential. Agencies have begun evaluating whether fiber-based monitoring could be included in national geothermal guidelines to reduce permitting times and strengthen safety requirements.

Although cost and scalability remain concerns, developers are moving quickly to adopt the approach. Fiber sensing is now being tested in more varied settings, including sedimentary basins and retired oil fields.

As geothermal expands beyond traditional regions, such monitoring tools may become essential. While still in early deployment, fiber-optic sensing could help turn geothermal from a niche resource into a mainstream pillar of clean energy supply.

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02

INNOVATION

Superhot Geothermal Could Power a 24/7 Clean Energy Future

U.S. firm targets high-temperature rock to deliver round-the-clock clean energy with enhanced geothermal systems

3 March 2025

SHARE

Fervo Energy, a Houston-based geothermal developer, is advancing a new wave of high-temperature drilling that could shift geothermal energy from niche to mainstream in the U.S. energy mix.

The company is targeting superhot rock formations reaching over 500°F (270°C), once considered too extreme for conventional drilling. With support from U.S. government agencies and national laboratories, Fervo is deploying Enhanced Geothermal Systems (EGS), a technology that fractures deep rock to allow water to circulate and capture underground heat.

Unlike traditional geothermal, which relies on naturally occurring hydrothermal systems, EGS can be applied in a wider range of geological settings. Higher temperatures also mean greater energy output per well and the ability to supply power continuously, regardless of whether or time of day.

“These are the kinds of breakthroughs that can take geothermal from niche to mainstream,” said Angela Seligman of the Clean Air Task Force, a climate advocacy group. “Accessing rock that is hot could revolutionize energy cycles and industrial processes alike.”

Fervo’s approach combines resilient materials with real-time monitoring to manage heat, pressure, and fluid flow in extreme environments. Early test results suggest stable performance, although long-term system durability remains under review.

Beyond electricity, superhot geothermal could be used to supply process heat to manufacturing, produce low-carbon hydrogen, or support energy-intensive sectors such as data centres. According to Fervo, the accessible rock layer lies beneath much of the continental U.S., potentially expanding clean energy access to areas underserved by wind or solar.

Barriers remain, including the high cost of deep drilling and the technical complexity of maintaining engineered reservoirs under intense conditions. However, increased public funding, growing interest from investors, and recent policy support under the U.S. Inflation Reduction Act have brought fresh momentum to the sector.

Fervo is among a handful of companies seeking to scale EGS over the next decade, with pilot projects underway in Nevada and Utah. While commercial deployment is still years away, industry analysts say superhot geothermal could become a core part of U.S. baseload generation if engineering challenges are resolved.

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INNOVATION

Can Heat from the Earth Power the Future?

Trane and GreenFire adapt sealed-pipe technology to cut seismic risk and expand geothermal in new markets

16 May 2025

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In the race to reinvent energy, one of the most promising breakthroughs isn't happening in the skies with wind turbines or on rooftops with solar panels. It's happening underground.

Across schoolyards in Illinois and aging steam fields in California, a low-profile technology is gaining ground: closed loop geothermal systems. By quietly tapping the Earth's natural heat, they're offering a clean, steady power source without the headaches of traditional drilling or the drama of fossil fuels.

Unlike older geothermal systems, which involve injecting water deep underground and risking seismic activity, closed loop setups use sealed pipes to circulate fluid through the Earth's subsurface. The result? Far fewer permits, minimal environmental impact, and an entirely new map of where geothermal can work.

Take North Shore School District 112 in Illinois, where Trane Technologies recently installed a closed loop system that now delivers year-round heating and cooling without touching fossil fuels. Out West, GreenFire Energy is breathing life back into The Geysers, once the heart of U.S. geothermal power, by converting abandoned wells into low-impact energy sources.

"This approach removes two major roadblocks: earthquake risks and permitting delays," said Dr. Casey Elwell of the National Renewable Energy Laboratory. "It's expanding geothermal's reach dramatically."

With growing pressure to find clean, reliable energy, the appeal is obvious. Closed loop geothermal runs around the clock and isn't hostage to sunshine or wind. It's especially useful for big energy users like hospitals, universities, and data centers.

Federal incentives are speeding things up too. Tax credits from the Inflation Reduction Act are lowering costs and spurring new projects across the country.

There are still questions about long-term performance and scalability. But the momentum is real and growing fast.

If this quiet trend continues, closed loop geothermal could become one of the most transformative energy technologies in decades. No smoke, no noise, just heat from the Earth, turned into power for a changing world.

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REGULATORY

Green Light for Geothermal Power

New permitting rules give geothermal energy a boost in the US clean power race

10 June 2025

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The US government has introduced new permitting rules aimed at speeding up geothermal energy development, marking a policy shift intended to elevate the role of this clean energy source in the national grid.

Under the updated framework, announced by the Department of the Interior on May 29, eligible geothermal projects may now receive permits in as little as 28 days, a sharp reduction from what was often a multi-year process. The rule reclassifies geothermal as a resource of national interest, placing it on par with oil, gas, and critical minerals in terms of regulatory priority.

The change has been welcomed by industry players. Ormat Technologies, a leading geothermal operator, plans to use the expedited process for upcoming projects in Nevada, one of the most geothermally active regions in the US. Fervo Energy, a developer known for using advanced drilling techniques, is also expected to benefit.

“This is a big step forward,” said a spokesperson for Geothermal Rising, the sector’s main trade body. “It finally puts geothermal on equal footing and signals that it’s no longer an overlooked player in the clean energy race.”

Geothermal systems harness underground heat to generate electricity continuously, offering a stable supply of clean power that complements intermittent sources such as wind and solar. Despite these advantages, the technology has seen limited deployment due to high initial costs and a complex federal permitting regime.

The new rule aims to address those hurdles by consolidating federal reviews and removing procedural overlap, while maintaining environmental protections. Officials said public transparency requirements and community engagement standards would remain in place.

The move comes amid broader efforts to diversify the US clean energy portfolio and reduce dependence on fossil fuels. With geothermal now receiving federal support comparable to other strategic resources, investors are taking renewed interest in the sector’s potential to provide consistent, emissions-free power.

The revised permitting pathway is expected to encourage greater private sector participation, accelerate deployment, and improve integration of geothermal into a grid increasingly reliant on renewable energy.

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TECHNOLOGY

How AI Is Speeding Up Geothermal by Weeks

Fervo Energy's AI-powered drilling slashes costs and time, advancing geothermal as a scalable, 24/7 clean energy source.

13 June 2025

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At a remote site in Utah, geothermal energy may be getting a long-awaited upgrade. Fervo Energy, a Houston-based start-up, has drilled an ultradeep well in just 16 days, an operation that once took months. Using artificial intelligence to guide its drill through hard rock, Fervo has cut costs nearly in half. Each well now costs $4.8m, down from $9.4m, according to the firm.

This shift in speed and efficiency changes the economics of geothermal energy. Unlike solar and wind, geothermal provides a constant source of power. That makes it attractive to industries and utilities in need of reliable, low-emissions electricity. But until now, high drilling costs and slow development have limited its reach.

Fervo's breakthrough came at Cape Station, a commercial site under development in Utah. The company's AI tools process real-time sensor data to adjust drill paths mid-operation, improving accuracy and speed. "We've proven we can do it faster, and cheaper," says Tim Latimer, Fervo's chief executive. The approach builds on earlier work with X, Alphabet's moonshot division, though the Utah result is the first to show commercial viability at this scale.

The technology is promising, but not yet a panacea. AI-driven systems rely on large volumes of high-quality data and may perform less consistently in unfamiliar geological settings. Surface infrastructure, especially power conversion and grid integration, still needs investment. Yet Fervo's success suggests geothermal could finally become more than a niche.

In theory, geothermal energy could supply vast amounts of baseload power in regions with deep underground heat. In practice, it has languished, supplying less than 1% of America's electricity. But as policymakers look for clean, round-the-clock energy sources, AI may help tip the balance.

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INVESTMENT

Big Bet: $206M Push for Geothermal Scale

Fervo raises $206M to scale Utah geothermal to 500 MW by 2028, with backing from Shell and Southern California Edison

17 June 2025

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Fervo Energy has raised $206mn to expand its advanced geothermal project in Utah, positioning the company as a frontrunner in delivering firm, carbon-free electricity to the US grid.

The company said the new financing will accelerate development of its Cape Station facility, which aims to supply 100 megawatts (MW) of constant, zero-emissions power by 2026. A second phase is expected to add another 400MW by 2028, bringing total capacity to 500MW.

The investment package includes $100mn in preferred equity from Breakthrough Energy Catalyst, a $60mn corporate term loan from energy trading group Mercuria, and $45.6mn in bridge debt financing from XRL-ALC LLC.

Fervo applies drilling techniques from the oil and gas industry, such as horizontal drilling and fiber-optic sensing, to access heat from deep rock formations. This approach is intended to scale geothermal energy beyond traditional high-temperature regions.

Cape Station has already secured long-term power purchase agreements. Shell Energy has committed to a 15-year deal for 31MW, while Southern California Edison has signed a separate agreement. These contracts signal a shift among utilities toward firm renewable energy sources that can balance intermittent generation from wind and solar.

“These investments demonstrate what we’ve known all along, that geothermal can be a cornerstone of a reliable, decarbonized grid,” said David Ulrey, Fervo’s chief financial officer. “Now we have the capital to prove it at full commercial scale.”

Geothermal has historically represented a small share of US energy output, limited by geography and cost. However, advances in drilling and a growing demand for clean baseload power have revived interest from investors and grid operators.

Challenges remain, including regulatory permitting and high upfront drilling expenses. Still, if successful, Cape Station would become one of the largest geothermal plants in the US and a model for broader deployment.

Fervo’s progress comes as US policymakers seek to accelerate decarbonisation without compromising grid reliability. The company’s backers see the project as a step toward meeting rising power demand while reducing reliance on fossil fuels.

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PARTNERSHIPS

Meta Taps Earth’s Hidden Heat to Power the AI Revolution

Tech group partners with XGS Energy to tap dry rock heat for 24/7 clean electricity at New Mexico site

20 June 2025

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Meta is digging deep to keep its AI ambitions running. The tech giant is backing a 150-megawatt geothermal power project in New Mexico in partnership with startup XGS Energy. The aim is to provide constant clean energy for its expanding network of data centres.

This is not traditional geothermal, which depends on hot water near the surface. XGS is using a newer method called dry rock heat extraction. It drills into deep hot rock and draws out heat through a closed-loop system. There is no need for water or volcanic activity, which means the technology can work in more locations.

Meta wants its data centres to run on 100 percent clean electricity every hour of the day. As AI workloads grow, so does the demand for power. Building energy projects close to its infrastructure helps reduce transmission losses and takes pressure off public grids. “This is a long-duration solution,” said Urvi Parekh, Meta’s head of renewable energy.

New Mexico was chosen for its hot geology, low seismic risk and good access to the grid. The deal gives XGS a chance to prove that dry rock geothermal can work at scale. The energy sector is paying attention. Other firms are testing similar technologies, but Meta is the first major tech company to invest at this level.

There are still obstacles. Deep drilling is expensive, and the technology is not yet fully proven. But if successful, this could be an important step forward. A little-used source of clean energy may soon help power the data-driven future from far below the surface.

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PARTNERSHIPS

Old Heat, New Power: Ormat’s Bold Bet

Ormat’s revival of Nevada’s Blue Mountain plant blends solar and geothermal, signaling a new era for US clean energy reinvention.

25 July 2025

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When Ormat Technologies bought back the Blue Mountain geothermal plant in Nevada this July, it was acquiring more than a struggling asset. The $88m deal reflects a quiet shift in America’s clean energy strategy: reviving underused infrastructure rather than building anew.

The firm plans to restore geothermal output and install a 13-megawatt solar array alongside it, creating a hybrid system aimed at smoothing power flows through day and night.

“The acquisition of the Blue Mountain geothermal power plant enhances our portfolio and reinforces our commitment to sustainable base-load energy solutions,” said Doron Blachar, Ormat’s chief executive. A long-term supply contract with NV Energy provides a secure outlet for the revived output.

Hybrid renewables are gaining favour. Solar and wind are cheap but intermittent. Geothermal, though expensive to develop, is a rare source of carbon-free baseload power. Combining the two could help utilities meet clean energy targets without sacrificing reliability.

Ormat’s strategy also avoids some of the pitfalls of greenfield development such as permitting delays, uncertain drilling results and rising costs. Instead, it is targeting dormant geothermal assets that can be brought back to life relatively quickly. The firm aims to add 130 megawatts of geothermal capacity in the US by 2026, mostly through such refurbishments.

There are risks. It remains to be seen whether Blue Mountain’s underground heat source can sustain higher output over time. But Ormat has a long history of working with low to medium temperature geothermal systems and optimising them with binary-cycle technology.

The economics of hybridisation will depend on continued support from federal and state incentives, as well as grid operators’ appetite for firm renewables. Still, Ormat’s approach may serve as a template not just for squeezing more power from the earth, but for squeezing more value from old energy infrastructure.

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INSIGHTS

Can This Laser-Like Drill Unlock Earth's Infinite Power?

Quaise Energy uses millimetre waves to vaporise rock, aiming to scale geothermal power globally

28 July 2025

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Quaise Energy, a Massachusetts-based startup, has drilled 100 metres into hard rock using millimetre-wave beams, marking a potential shift in how geothermal energy is accessed. The trial, completed in July in Central Texas, employed contactless electromagnetic radiation to vaporise rock, a method adapted from nuclear fusion research at MIT.

Unlike conventional drilling, which relies on rotating bits and drilling mud, Quaise's system cuts through subsurface layers without direct contact. This enables access to deeper and hotter rock formations previously out of reach. The company aims to tap these superheated zones to produce geothermal energy that operates continuously, regardless of weather or season.

"Our goal is to make geothermal scalable everywhere," said Carlos Araque, chief executive of Quaise. He added that the technology could allow the repurposing of retired fossil fuel infrastructure into baseload clean energy sites suitable for residential power, industry, and data centres.

Geothermal energy, while offering constant supply, has been limited by cost, drilling difficulty, and geographical constraints. Quaise's technique could reduce those barriers and allow geothermal to compete with intermittent sources such as solar and wind.

The approach has drawn attention from private investors and the US Department of Energy, which is expanding support for advanced geothermal systems. However, questions remain over whether the beam drilling system can maintain efficiency at greater depths and higher temperatures, and whether project economics will scale competitively.

Quaise plans to extend its drilling to depths of several kilometres in future tests, where temperatures exceed 400°C. This is a threshold required for superhot rock geothermal systems that promise greater energy output per well.

The company is targeting commercial demonstration by 2026. If proven viable, the technology could support climate goals by providing round-the-clock clean power from a wider range of locations than traditional geothermal fields.

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MARKET TRENDS

Heat Beneath, Power Ahead!

Fervo, Ormat, and Enel push ahead as US geothermal aims for 100GW by 2050 amid permitting delays and rising costs

4 Aug 2025

SHARE

US geothermal developers are pushing ahead with next-generation drilling projects despite funding delays and regulatory uncertainty that risk slowing progress in one of the country's most promising clean energy sectors.

Fervo Energy, a Houston-based start-up, has successfully deployed an Enhanced Geothermal System (EGS) in Nevada, using horizontal drilling to access previously untapped heat resources. Backed by power purchase agreements with Google and private equity investment, the project marks a key technical milestone. But progress has come against the backdrop of stalled federal loan approvals and increased material costs, driven in part by new tariffs on imported steel and equipment.

The Department of Energy's loan programme, once a crucial source of financing for clean infrastructure, has slowed following staffing reductions and stricter oversight. Although clean energy tax credits from the Inflation Reduction Act remain in place, they have not been sufficient to offset the uncertainty in project timelines and capital access.

Ormat Technologies, one of the US's most established geothermal firms, has stepped up lobbying efforts in Washington. It is calling for faster permitting processes and clearer loan guidance to reduce bottlenecks. "The tech is proven," said one company executive. "Now the system needs to catch up."

Enel Green Power, the renewable energy arm of Italy's Enel Group, continues to test hybrid applications abroad. Its 2018 pilot project in Chile combined geothermal and battery storage at Cerro Pabellón, showcasing the potential for flexible geothermal systems. While the company has not yet introduced similar projects in the US, it remains active in research and exploration.

Despite the headwinds, the sector's outlook remains strong. A recent McKinsey report suggests the US could deploy up to 100GW of geothermal capacity by 2050 if regulatory and financial frameworks improve. That would represent a substantial expansion from the roughly 4GW currently installed.

As firms adjust their strategies and technologies, industry executives say geothermal is moving beyond its niche status. The coming years will test whether developers and policymakers can align fast enough to meet the sector's potential.

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Automotive (inc. Battery Minerals, Automotive Logistics)	Discounts Available For OEM's	OEM's GROUP PASS	MEET THE MANUFACTURERS: ...
Aerospace (Electric Aircraft)	Discounts Available For Your Team	TEAM GROUP PASS	MEET THE LEADERS: ...
Oil & Gas	Discounts Available For Operators	OPERATORS GROUP PASS	MEET THE OPERATORS: ...
Graphene	Discounts Available For Your Team	TEAM GROUP PASS	MEET THE LEADERS: ...
Deep Sea Mining	Discounts Available For Your Team	TEAM GROUP PASS	MEET THE LEADERS: ...
Clean Energy (Carbon Capture, Smart Grids)	Discounts Available For Your Team	TEAM GROUP PASS	MEET THE LEADERS: ...
Sustainable Plastics	Discounts Available For Your Team	TEAM GROUP PASS	MEET THE MANUFACTURERS: ...
Pharmaceuticals	Discounts Available For Your Team	TEAM GROUP PASS	MEET THE LEADERS: ...
Agriculture	Discounts Available for Your Team	TEAM GROUP PASS	MEET THE LEADERS: ...

DESIGN THEME

HEADER BACKGROUND TYPE

Video

HEADER TEXT COLUMN TYPE

One Column Text

TICKERS

Only applicable if slider layout selected under header background type

Ticker headline 1

Ticker Description 1

Ticker headline 2

Ticker Description 2

Ticker headline 3

Ticker Description 3

Ticker headline 4

Ticker Description 4