

# **Enhanced Geothermal System Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Resource Type (Hot Dry Rock, Sedimentary Basin, Radiogenic, Molten Magma), By Depth (Shallow, Deep), By Simulation Method (Hydraulic, Chemical, Thermal), By End User (Residential, Commercial), By Power Station Type (Dry Steam Power Station, Flash Steam Power Station, Binary Cycle Power Station), By Region, By Competition, 2018-2028**

<https://marketpublishers.com/r/EF5292A2CD28EN.html>

Date: October 2023

Pages: 171

Price: US\$ 4,900.00 (Single User License)

ID: EF5292A2CD28EN

## **Abstracts**

Global Enhanced Geothermal System Market has valued at USD 3.08 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 5.19% through 2028.

The Enhanced Geothermal System (EGS) market refers to a sector within the broader geothermal energy industry that focuses on the development and commercialization of advanced geothermal technologies. EGS represents an innovative approach to harnessing the Earth's heat from beneath the surface for electricity generation and other applications. In an EGS system, instead of relying on naturally occurring high-temperature and permeable rock formations found in conventional geothermal reservoirs, engineers create artificial reservoirs deep within the Earth's crust. This is typically achieved by injecting fluids at high pressures into boreholes, creating fractures and stimulating heat exchange with the surrounding rock. EGS holds promise as a sustainable and low-carbon energy source, offering a continuous and reliable supply of

electricity with minimal greenhouse gas emissions. It presents an opportunity to tap into vast geothermal resources that were previously considered inaccessible, expanding the geographical reach of geothermal power generation.

The EGS market encompasses research, development, and deployment of technologies and projects aimed at making enhanced geothermal energy more accessible, cost-effective, and environmentally friendly. It aligns with global efforts to transition towards cleaner and more sustainable energy sources, contributing to the reduction of carbon emissions and mitigating the impacts of climate change.

## Key Market Drivers

### Environmental Concerns and Renewable Energy Transition

One of the primary drivers propelling the global Enhanced Geothermal System (EGS) market is the growing concern for environmental sustainability and the transition towards renewable energy sources. As the world grapples with the adverse effects of climate change and the depletion of fossil fuels, there is a pressing need for cleaner and more sustainable energy solutions.

EGS technology harnesses the Earth's geothermal heat, which is both renewable and low in carbon emissions, making it an attractive option in the shift towards greener energy. Unlike traditional fossil fuels, EGS produces minimal greenhouse gas emissions, reducing the carbon footprint of power generation. This alignment with environmental goals and sustainability initiatives has spurred increased interest and investments in EGS projects worldwide.

### Energy Security and Independence

Energy security and independence are critical drivers of the global EGS market. Many countries are motivated to reduce their dependence on imported fossil fuels, as it often leads to economic vulnerabilities and geopolitical uncertainties. EGS offers a reliable and domestic source of energy that is not subject to supply disruptions or price fluctuations associated with fossil fuels.

By tapping into their own geothermal resources, nations can enhance their energy security, reduce trade deficits, and mitigate the risks associated with fossil fuel dependency. This desire for energy autonomy and security has led to the exploration and development of EGS projects in various regions, contributing to the market's

growth.

### Technological Advancements and Research Investments

Technological advancements and research investments play a pivotal role in driving the global EGS market. Continuous research and development efforts have improved the efficiency and cost-effectiveness of EGS systems. Enhanced drilling techniques, reservoir engineering, and heat exchange technologies have expanded the feasibility of EGS projects.

Furthermore, governments, private companies, and research institutions worldwide have allocated significant resources to advance EGS technology. Research initiatives aim to better understand subsurface geology, enhance reservoir stimulation techniques, and optimize energy extraction processes. These investments drive innovation and reduce the risks associated with EGS development, making it a more attractive and viable option for clean energy production.

### Favorable Government Policies and Incentives

Favorable government policies and incentives are key drivers of the global EGS market. Many countries have implemented regulatory frameworks and financial incentives to encourage the development of geothermal energy, including EGS projects. These policies include feed-in tariffs, tax credits, grants, and renewable energy mandates that create a conducive environment for EGS investments.

Additionally, governments recognize the importance of diversifying their energy portfolios and achieving climate goals, which often involves promoting renewable energy sources like EGS. By incentivizing EGS development, governments not only stimulate economic growth but also contribute to their renewable energy targets and reduce carbon emissions.

### Baseload Power Generation Capability

EGS technology's ability to provide baseload power generation is a significant driver of its global market growth. Unlike some renewable energy sources that are intermittent, such as solar and wind, EGS can deliver a stable and continuous supply of electricity. This baseload capability is crucial for meeting the consistent energy demand of industries, businesses, and households.

EGS complements intermittent renewables by offering a reliable and constant source of clean energy. It can serve as a backbone in the energy mix, helping to stabilize power grids and ensure uninterrupted electricity supply. As the demand for reliable and consistent energy grows, the baseload power generation capability of EGS becomes increasingly valuable and drives its adoption.

### Regional Geothermal Potential and Resource Availability

The presence of significant geothermal potential and resource availability in various regions serves as a driver for the global EGS market. Many countries are endowed with abundant geothermal resources, including high-temperature heat reservoirs located deep within the Earth's crust. These regions often have a natural advantage for EGS development.

Countries such as the United States, Iceland, Indonesia, and New Zealand have harnessed their geothermal potential, establishing themselves as leaders in EGS deployment. The availability of such resources incentivizes investment in EGS projects and enables nations to capitalize on their indigenous geothermal energy, reducing the need for fossil fuels and contributing to their energy transition goals.

In conclusion, the global Enhanced Geothermal System (EGS) market is driven by environmental concerns, energy security, technological advancements, government support, baseload power generation capabilities, and regional geothermal potential. These drivers collectively facilitate the expansion of EGS technology and its contribution to the global clean energy landscape.

### Government Policies are Likely to Propel the Market

#### Renewable Energy Mandates and Targets

One of the primary government policies driving the global Enhanced Geothermal System (EGS) market is the establishment of renewable energy mandates and targets. Many nations have set ambitious goals to increase the share of renewable energy sources in their energy mix to combat climate change and reduce greenhouse gas emissions.

These policies mandate that a certain percentage of a country's energy generation must come from renewable sources by a specific date. EGS, being a reliable and consistent renewable energy source, benefits from these mandates. Governments often offer

incentives and financial support to EGS projects to help meet these renewable energy targets.

The existence of these mandates and targets creates a stable and predictable market for EGS developers and investors, encouraging the growth of EGS capacity and technology advancements.

### Feed-In Tariffs (FiTs) and Power Purchase Agreements (PPAs)

Feed-In Tariffs (FiTs) and Power Purchase Agreements (PPAs) are essential government policies that drive the global EGS market by ensuring a guaranteed and favorable price for the electricity produced by EGS projects.

Under FiTs, governments set fixed rates at which EGS project owners are paid for the electricity they generate. These rates are often higher than the market price, providing financial incentives for EGS investments. PPAs, on the other hand, involve long-term contracts between EGS developers and utilities or private buyers, guaranteeing a fixed price for the electricity over an extended period.

Both FiTs and PPAs provide revenue certainty, reduce project risks, and attract private sector investments into the EGS sector. These policies are crucial in making EGS projects financially viable, particularly during the initial stages of development.

### Research and Development (R&D) Funding

Government-funded research and development (R&D) programs are instrumental in advancing EGS technology and driving innovation in the sector. Many governments allocate substantial resources to support R&D initiatives focused on improving drilling techniques, reservoir engineering, and heat exchange processes in EGS systems.

These programs aim to reduce the technical and economic risks associated with EGS development, making it more attractive to private investors. By fostering innovation, governments contribute to the growth and commercialization of EGS technology, ultimately expanding the market.

Additionally, government-sponsored R&D can lead to breakthroughs that enhance the efficiency and cost-effectiveness of EGS projects, making them more competitive with other forms of renewable energy.

## Tax Incentives and Investment Credits

Tax incentives and investment credits are powerful tools for stimulating EGS investments. Governments often offer tax breaks and investment credits to EGS developers and investors as a way to reduce the upfront costs and financial burdens associated with project development.

These incentives can take the form of tax credits, deductions, accelerated depreciation, or exemptions from certain taxes. They effectively lower the overall project costs and improve the return on investment for EGS projects. As a result, they attract more private capital and encourage the expansion of EGS capacity.

By reducing the financial barriers to entry, tax incentives and investment credits make EGS projects more financially appealing and contribute to the growth of the global EGS market.

## Geothermal Resource Leasing and Permitting

Government policies related to geothermal resource leasing and permitting are critical for facilitating EGS development. These policies define the procedures for accessing and utilizing geothermal resources located on public lands or within a country's jurisdiction.

Governments often lease geothermal exploration and production rights to private developers through competitive bidding processes. They also establish permitting frameworks that outline the regulatory requirements for drilling, reservoir stimulation, and environmental protection.

Efficient and transparent leasing and permitting policies are essential for reducing bureaucratic delays and uncertainties associated with EGS projects. When these policies are well-designed and streamlined, they encourage EGS developers to explore and invest in geothermal resources, accelerating project implementation and market growth.

## Environmental and Emission Reduction Targets

Government policies aimed at environmental protection and emission reduction goals contribute to the global EGS market's expansion. As countries commit to reducing greenhouse gas emissions and combatting climate change, EGS is recognized as a



clean and low-carbon energy source.

To meet these targets, governments may implement carbon pricing mechanisms, cap-and-trade programs, or renewable energy portfolio standards that favor EGS development. EGS projects align with these policies by providing a consistent and emission-free source of electricity.

Moreover, EGS technology offers the flexibility to provide baseload power, which can replace fossil fuel-based generation and help countries achieve their emission reduction goals while maintaining grid stability.

In conclusion, government policies such as renewable energy mandates, FiTs, PPAs, R&D funding, tax incentives, resource leasing and permitting, and emission reduction targets are key drivers of the global Enhanced Geothermal System (EGS) market. These policies create a supportive regulatory and economic environment that encourages EGS development, investment, and innovation, ultimately leading to the expansion of clean and sustainable geothermal energy.

## Key Market Challenges

### Technical and Geological Complexity

One of the foremost challenges confronting the global Enhanced Geothermal System (EGS) market is the technical and geological complexity associated with EGS projects. Unlike traditional geothermal resources, which naturally occur in high-temperature and permeable rock formations, EGS relies on creating artificial reservoirs in deep, hot rock layers through a process known as reservoir stimulation or hydraulic fracturing.

This complexity arises from several factors:

**Geological Variability:** Geological conditions can vary significantly from one site to another, requiring a thorough understanding of subsurface geology to identify suitable locations for EGS development. In some cases, the desired rock formations may be deeper or less permeable, making reservoir creation and heat extraction more challenging.

**Reservoir Engineering:** Designing and engineering an EGS reservoir necessitates precise knowledge of fracture patterns, rock properties, and stress conditions deep underground. Achieving effective heat exchange between the injection and production

wells is essential for the success of EGS projects.

**Hydraulic Fracturing Challenges:** The process of hydraulic fracturing, which involves injecting fluids at high pressures to create fractures in the rock, can be technically demanding. Ensuring that fractures propagate as intended and do not cause unintended seismic events or fluid losses is a critical challenge.

**Heat Extraction Efficiency:** EGS systems must efficiently capture and transfer heat from the fractured rock to the surface for power generation. Maximizing heat extraction while minimizing thermal losses presents engineering challenges.

Addressing these technical and geological complexities often requires extensive research, site-specific assessments, and innovative engineering solutions. It also involves managing the associated risks, such as induced seismicity, reservoir depletion, or unexpected operational difficulties. These complexities can result in longer project lead times and increased development costs, posing obstacles to the widespread adoption of EGS technology.

### High Initial Capital Costs and Financial Risks

Another significant challenge facing the global Enhanced Geothermal System (EGS) market is the high initial capital costs and financial risks associated with EGS projects. While EGS has the potential to provide a reliable and sustainable source of clean energy, the upfront investments required to develop and commercialize EGS resources can be substantial.

Several factors contribute to the high initial capital costs and financial risks:

**Exploration and Site Assessment:** Identifying suitable EGS sites necessitates thorough geological surveys, exploration drilling, and site assessment studies. These activities incur significant expenses, and the outcomes are uncertain until comprehensive data is available.

**Reservoir Development:** Creating an EGS reservoir through hydraulic fracturing involves specialized equipment, technologies, and skilled personnel. The reservoir development phase requires substantial upfront investments in drilling, well construction, and stimulation.

**Infrastructure and Power Plant Construction:** Building the necessary surface



infrastructure, including power plants, transmission lines, and cooling systems, adds to the capital costs. EGS power plants must be designed to handle the unique challenges posed by geothermal heat extraction.

**Operational Risks:** EGS projects may face operational challenges such as maintaining reservoir integrity, optimizing heat exchange, and managing subsurface pressure. These operational risks can impact project viability and long-term sustainability.

**Market and Policy Uncertainty:** EGS projects are influenced by market dynamics and government policies, including incentives and regulatory frameworks. Uncertainty in energy markets and policy changes can affect project financing and returns on investment.

To address the challenge of high initial capital costs and financial risks, governments, financial institutions, and project developers need to collaborate to create financial mechanisms, such as grants, loan guarantees, and risk-sharing agreements, that reduce the financial burden on investors. Additionally, cost-effective drilling and reservoir stimulation technologies and improved project planning and risk management strategies can help mitigate these challenges and make EGS projects more economically viable in the long term.

In summary, the global Enhanced Geothermal System (EGS) market faces challenges related to technical and geological complexity, as well as high initial capital costs and financial risks. Overcoming these obstacles requires ongoing research and innovation, risk management strategies, and financial support mechanisms to accelerate the adoption of EGS technology and harness its potential as a clean and sustainable energy source.

## Segmental Insights

### Hot Dry Rock (HDR) Insights

The Hot Dry Rock segment had the largest market share in 2022 & expected to maintain it in the forecast period. HDR resources are relatively abundant and widely distributed beneath the Earth's crust. Unlike some other geothermal resource types, such as hydrothermal reservoirs, which are confined to specific geological settings, HDR resources can be found in various regions, increasing their accessibility for EGS development. This widespread distribution makes HDR a practical option for many countries seeking to harness geothermal energy. HDR resources offer the potential for

high-temperature gradients at depth. As you drill deeper into the Earth's crust, temperatures increase significantly. HDR systems can access these elevated temperatures, enhancing the efficiency and energy output of EGS projects. The availability of high-temperature heat sources makes HDR particularly attractive for power generation and direct heating applications. HDR resources are well-suited for reservoir stimulation techniques, a key component of EGS development. In EGS projects, hydraulic fracturing (or similar methods) is employed to create and enhance fractures in the hot rock, allowing for the circulation of water or heat transfer fluids. HDR formations, with their fractured nature, facilitate effective reservoir stimulation, making them ideal for heat extraction. HDR-based EGS systems are versatile and scalable, accommodating a wide range of energy demands. These systems can be tailored to meet diverse applications, from small-scale district heating projects to large, utility-scale power generation facilities. This adaptability ensures that HDR resources can address various market needs and energy requirements. HDR geological characteristics are often more predictable and well-understood compared to some other geothermal resource types. This predictability reduces geological exploration risks and enhances project planning and feasibility assessments. Investors and developers find HDR resources more attractive due to the reduced uncertainty associated with geological factors. Over the years, HDR technology has received significant attention and investment in research and development. Scientists and engineers have made advancements in drilling techniques, reservoir engineering, and heat exchange processes for HDR-based EGS projects. These advancements have improved the overall feasibility and efficiency of HDR resource utilization.

## Deep Insights

The Deep segment had the largest market share in 2022 and is projected to experience rapid growth during the forecast period. Deep EGS projects access significantly higher temperature gradients at greater depths within the Earth's crust. As you drill deeper, temperatures increase due to the Earth's natural geothermal gradient. This results in access to higher-temperature heat sources, which are particularly attractive for electricity generation and industrial applications. The ability to tap into these elevated temperatures enhances the energy output and efficiency of deep EGS projects. The higher temperatures available in deep EGS reservoirs translate into more efficient and productive heat extraction. The greater temperature differential between the reservoir and the surface allows for enhanced energy output, making deep EGS projects well-suited for power generation and large-scale heating applications. This increased energy output is essential for meeting the demands of power grids and industrial processes. Deep EGS systems provide a more consistent and stable source of geothermal heat

compared to shallow systems. They are less affected by surface conditions and seasonal temperature variations, offering the potential for consistent and baseload power generation. This reliability aligns with the growing need for stable energy sources to support the grid and meet the continuous demands of industries and households. Advances in drilling technologies and reservoir engineering have significantly improved the feasibility and efficiency of deep EGS projects. Enhanced drilling techniques, including directional drilling and deep drilling technologies, have made it more practical to access geothermal resources at greater depths. These technological advancements have reduced costs and risks associated with deep drilling, accelerating the development of deep EGS projects. Deep EGS resources are often more abundant and widespread beneath the Earth's surface compared to shallow resources. The increased availability of deep geothermal resources provides greater opportunities for exploration and development. Countries and regions seeking to expand their geothermal energy capacity find deep EGS projects appealing due to the larger potential resource base. Deep EGS projects are well-positioned to meet the rising demand for reliable, continuous, and high-capacity energy generation. Industries, utilities, and power producers seek clean and stable power sources to meet their operational and grid reliability needs. Deep EGS systems offer the capability to provide consistent and baseload electricity, making them a preferred choice for meeting these demands. As countries and regions set ambitious climate and sustainability goals, there is a growing emphasis on transitioning to renewable and low-carbon energy sources. Deep EGS projects align with these goals by providing a sustainable and environmentally friendly source of heat and power. Their ability to reduce greenhouse gas emissions and reliance on fossil fuels further drives their adoption.

## Regional Insights

North America had the largest market for EGS, accounting for over 50% of the global market share in 2022. The US is the leading country in the North American EGS market, followed by Canada. The growth of the EGS market in North America is driven by factors such as increasing demand for renewable energy, government support for EGS development, and technological advancements in EGS technology.

Europe had the second-largest market for EGS, accounting for over 30% of the global market share in 2022. The major countries in the European EGS market include Germany, the UK, France, and Italy. The growth of the EGS market in Europe is driven by factors such as the rising demand for renewable energy and the European Green

Deal initiative.

Asia Pacific had the third-largest market for EGS, accounting for over 10% of the global market share in 2022. The major countries in the Asia Pacific EGS market include China, Japan, and Australia. The growth of the EGS market in Asia Pacific is driven by factors such as the increasing demand for energy and the growing awareness of the benefits of geothermal energy.

Key Market Players

Enel SpA

Ormat Technologies, Inc.

AltaRock Energy, Inc.

Shell Plc

Kenya Electricity Generating Company Limited

BESTEC GmbH

Geothermie Bouillante SA

Fuji Electric Co., Ltd.

Calpine Corporation

Energy Development Corporation.

Report Scope:

In this report, the Global Enhanced Geothermal System Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Enhanced Geothermal System Market, By Resource Type:

Hot Dry Rock

Sedimentary Basin

Radiogenic

Molten Magma

Enhanced Geothermal System Market, By Depth:

Shallow

Deep

Enhanced Geothermal System Market, By Simulation Method:

Hydraulic

Chemical

Thermal

Enhanced Geothermal System Market, By End User:

Residential

Commercial

Enhanced Geothermal System Market, By Power Station Type:

Dry Steam Power Station

Flash Steam Power Station

Binary Cycle Power Station

Enhanced Geothermal System Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa



South Africa

Saudi Arabia

UAE

Kuwait

Turkey

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Enhanced Geothermal System Market.

## Available Customizations:

Global Enhanced Geothermal System market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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