

Global Enhanced Geothermal Energy Systems Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Enhanced Geothermal Energy Systems market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Enhanced Geothermal Energy Systems (EGS) is a technology that harnesses geothermal energy by injecting liquid underground to enhance geothermal energy production. Traditional geothermal energy systems rely on naturally occurring hot water and steam resources, while EGS can expand the scope of geothermal energy extraction and improve energy production efficiency. The key to the EGS system is to create and maintain an artificial fracture network and ensure the stability and efficiency of hydrothermal circulation. This requires careful assessment and control of subsurface geological conditions and managing the system with appropriate injection pressures, flows and temperatures. The advantage of EGS technology is that it can develop a wider range of geothermal resources, reduce dependence on specific hot spots in the region, and effectively utilize underground thermal energy. It is expected to provide an important energy supplement for the development of renewable energy and reduce the demand for traditional fossil fuels, thereby reducing greenhouse gas emissions. However, EGS technology also faces some challenges, such as underground injection of liquid that may cause earthquakes, rock crack stability and other issues, so it needs to be treated with caution during implementation. In recent years, scientists and engineers have been working hard to overcome these challenges to promote the development and commercial application of EGS technology.

This report studies the global Enhanced Geothermal Energy Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Enhanced Geothermal Energy Systems, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Enhanced Geothermal Energy Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Enhanced Geothermal Energy Systems total production and demand, 2018-2029, (kWh)

Global Enhanced Geothermal Energy Systems total production value, 2018-2029, (USD Million)

Global Enhanced Geothermal Energy Systems production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (kWh)

Global Enhanced Geothermal Energy Systems consumption by region & country, CAGR, 2018-2029 & (kWh)

U.S. VS China: Enhanced Geothermal Energy Systems domestic production, consumption, key domestic manufacturers and share

Global Enhanced Geothermal Energy Systems production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (kWh)

Global Enhanced Geothermal Energy Systems production by Type, production, value, CAGR, 2018-2029, (USD Million) & (kWh)

Global Enhanced Geothermal Energy Systems production by Application production, value, CAGR, 2018-2029, (USD Million) & (kWh).

This reports profiles key players in the global Enhanced Geothermal Energy Systems market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AltaRock Energy, Ormat Technologies, Geodynamics, Sandia National Laboratories, Fervo Energy, Sage Geosystems, Calpine, Enel Green Power and Welltec, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Enhanced Geothermal Energy Systems market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kWh) and average price (US\$/kWh) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Enhanced Geothermal Energy Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Enhanced Geothermal Energy Systems Market, Segmentation by Type

Single Well Circulation

Double Well Circulation

Others

Global Enhanced Geothermal Energy Systems Market, Segmentation by Application

Generate Electricity

Heating

Industrial Production

Others

Companies Profiled:

AltaRock Energy

Ormat Technologies

Geodynamics

Sandia National Laboratories

Fervo Energy

Sage Geosystems

Calpine

Enel Green Power

Welltec

Energy Development

GreenFire Energy

Pertamina

Bestec

Chevron

BHE Renewables

Key Questions Answered

1. How big is the global Enhanced Geothermal Energy Systems market?
2. What is the demand of the global Enhanced Geothermal Energy Systems market?
3. What is the year over year growth of the global Enhanced Geothermal Energy Systems market?
4. What is the production and production value of the global Enhanced Geothermal Energy Systems market?
5. Who are the key producers in the global Enhanced Geothermal Energy Systems market?

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