

Global Molten Salt Reactor Market Growth 2026-2032

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Abstracts

The global Molten Salt Reactor market size is predicted to grow from US\$ 1015 million in 2025 to US\$ 1847 million in 2032; it is expected to grow at a CAGR of 9.0% from 2026 to 2032.

Molten salt reactor is a major type of nuclear fission reactor, in which molten salt plays a crucial role in the core, serving as fuel, coolant, or moderator. Typical molten salt systems include fluoride and chloride salts, characterized by high temperature, low pressure, and the potential for efficient heating and power generation. In 2025, global Molten Salt Reactor production reached approximately 1,627 Units, with an average global market price of around K US\$ 638 per unit.

Thorium based molten salt reactor is a new type of nuclear reactor technology that uses thorium as nuclear fuel and molten fluoride salts as carriers. This type of reactor utilizes thorium material in liquid molten salt to trigger sustained nuclear fission reactions and release energy at high temperatures. The thorium based molten salt reactor is the fourth generation nuclear fission reactor in China. It was officially built and converted from thorium to uranium in 2025, becoming the only operating molten salt reactor in the world and the only nuclear reactor currently built in the Gobi Desert in China.

LP Information, Inc. (LPI) ' newest research report, the "Molten Salt Reactor Industry Forecast" looks at past sales and reviews total world Molten Salt Reactor sales in 2025, providing a comprehensive analysis by region and market sector of projected Molten Salt Reactor sales for 2026 through 2032. With Molten Salt Reactor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Molten Salt Reactor industry.

This Insight Report provides a comprehensive analysis of the global Molten Salt Reactor landscape and highlights key trends related to product segmentation, company

formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Molten Salt Reactor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Molten Salt Reactor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Molten Salt Reactor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Molten Salt Reactor.

This report presents a comprehensive overview, market shares, and growth opportunities of Molten Salt Reactor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Thorium Based Molten Salt Reactor

Plutonium Based Molten Salt Reactor

Uranium Based Molten Salt Reactor

Segmentation by Salt System:

Fluoride Salt System

Chloride Salt System

Segmentation by Fuel Form:

Liquid Fuel

Solid Fuel

Segmentation by Application:

Energy and Electricity

Oil and Gas

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Everllence

Kairos Power

Copenhagen Atomics

Terrestrial Energy

ThorCon Power

Transatomic

Flibe Energy

Key Questions Addressed in this Report

What is the 10-year outlook for the global Molten Salt Reactor market?

What factors are driving Molten Salt Reactor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Molten Salt Reactor market opportunities vary by end market size?

How does Molten Salt Reactor break out by Type, by Application?

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