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Global MOX Fuel Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global MOX Fuel market size is predicted to grow from US$ 145 million in 2025 to US$ 406 million in 2032; it is expected to grow at a CAGR of 16.2% from 2026 to 2032.

Mixed oxide fuel, commonly referred to as MOX fuel, is nuclear fuel that contains more than one oxide of fissile material, usually consisting of plutonium blended with natural uranium, reprocessed uranium, or depleted uranium. MOX fuel is an alternative to the low-enriched uranium fuel used in the light-water reactors that predominate nuclear power generation.

One attraction of MOX fuel is that it is a way of utilizing surplus weapons-grade plutonium, an alternative to storage of surplus plutonium, which would need to be secured against the risk of theft for use in nuclear weapons. On the other hand, some studies warned that normalizing the global commercial use of MOX fuel and the associated expansion of nuclear reprocessing would increase, rather than reduce, the risk of nuclear proliferation, by encouraging increased separation of plutonium from spent fuel in the civil nuclear fuel cycle.

United States market for MOX Fuel is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for MOX Fuel is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for MOX Fuel is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

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Global key MOX Fuel players cover Orano, J-MOX Rokkasho, TVEL, MCC Zheleznogorsk, AFFF, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global MOX Fuel landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on MOX Fuel portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global MOX Fuel market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for MOX Fuel 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 MOX Fuel.

This report presents a comprehensive overview, market shares, and growth opportunities of MOX Fuel market by product type, application, key players and key regions and countries.

Segmentation by Type:

Two Phases (UO2 and PuO2)

Single Phase Solid Solution (U,Pu)O2

Segmentation by Application:

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Thermal Neutron reactor

Fast Neutron Reactors

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

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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 analyzing the company's coverage, product portfolio, its market penetration.

Orano

J-MOX Rokkasho

TVEL

MCC Zheleznogorsk

AFFF

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