

Nuclear Waste Management Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Waste Type (Low Level Waste, Intermediate Level Waste, High Level Waste), By Reactor Type (Pressurized Water Reactor, Boiling Water Reactor, Gas Cooled Reactor, Pressurized Heavy Water Reactor), By Disposal Method (Incineration, Storage, Deep Geological Disposal, Others), By Region & Competition, 2021-2031F

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Abstracts

The Global Nuclear Waste Management Market will grow from USD 6.06 Billion in 2025 to USD 7.69 Billion by 2031 at a 4.05% CAGR. The Global Nuclear Waste Management Market encompasses the systematic collection, treatment, packaging, transportation, and long-term disposal of radioactive materials generated by nuclear power plants, medical facilities, and defense activities.

Key Market Drivers

The Expansion of Global Nuclear Power Generation Capacity acts as a primary catalyst for the market as nations aggressively prioritize energy security and low-carbon transitions. This resurgence in new reactor construction directly correlates with increased volumes of spent fuel and operational waste that require immediate and sophisticated management strategies. Such growth extends beyond traditional markets into emerging economies and necessitates the rapid development of disposal infrastructure and regulatory compliance mechanisms.

Key Market Challenges

The establishment of permanent deep geological repositories for high-level waste presents a significant barrier to the progress of the Global Nuclear Waste Management Market. This difficulty arises from stringent regulatory requirements and sustained public resistance regarding site selection, which collectively delay project approval and construction. Such delays extend the industry's reliance on interim storage facilities, thereby increasing long-term maintenance costs and preventing the implementation of a complete lifecycle solution for radioactive materials.

Key Market Trends

The Transition from Wet Storage to Modular Dry Cask Storage Systems represents a critical evolution in the management of spent nuclear fuel, driven by the saturation of on-site cooling pools and the continued unavailability of permanent deep geological repositories. Operators are increasingly adopting modular dry storage solutions which offer passive cooling capabilities and robust, scalable infrastructure that can be deployed incrementally at reactor sites. This shift significantly reduces the operational risks associated with active liquid cooling systems and provides a licensed, secure interim solution for long-term fuel retention while permanent disposal routes are finalized.

Key Market Players

Veolia Environnement S.A.

Bechtel Corporation

Waste Control Specialists LLC

Perma-Fix Environmental Services, Inc.

Jacobs Solutions Inc.

EnergySolutions, LLC

Studsvik AB

SNC-Lavalin Group Inc.

Rosatom State Atomic Energy Corporation

Augean PLC

Report Scope:

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

Nuclear Waste Management Market, By Waste Type:

Low Level Waste

Intermediate Level Waste

High Level Waste

Nuclear Waste Management Market, By Reactor Type:

Pressurized Water Reactor

Boiling Water Reactor

Gas Cooled Reactor

Pressurized Heavy Water Reactor

Nuclear Waste Management Market, By Disposal Method:

Incineration

Storage

Deep Geological Disposal

Others

Nuclear Waste Management 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

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Nuclear Waste Management Market.

Available Customizations:

Global Nuclear Waste Management Market report with the given market data, TechSci 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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