

Comprehensive Report on the Spent Nuclear Fuel Waste Management Market: Opportunities and Challenges

The Business Research Company's Spent Nuclear Fuel Waste Management Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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Spent Nuclear Fuel Waste Management Global
Market Report 2025

What Is The Expected Cagr For The [Spent Nuclear Fuel Waste Management Market](#) Through 2025?



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The market size for managing spent nuclear fuel waste has seen a slight growth in the past few years. The growth is projected to increase from \$6.18 billion in 2024 to \$6.23 billion in 2025, with a compound annual growth rate (CAGR) of 0.9%. The growth observed in the historic period has been influenced by factors such as the expansion of nuclear power, the decommissioning of nuclear facilities, governmental regulations, concerns about the public and the environment, as well as research and development initiatives.

The market for managing spent nuclear fuel waste is projected to experience a slight increase in the coming years. It is forecasted to reach \$6.46 billion by 2029, growing at a compound annual growth rate (CAGR) of 0.9%. This predicted growth during the forecast period is due to factors such as understanding of long-term responsibilities, high energy requirements, rising safety issues, economic factors and efforts to combat climate change. Key trends expected to drive the market during the forecast period are the change in disposal techniques, advancements and integration in technology, involvement of the public and development of policies, economic

feasibility and private sector investments, and strategic alliances.

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What Are The Driving Factors Impacting The Spent Nuclear Fuel Waste Management Market?

The surge in energy requirement is anticipated to boost the expansion of the spent nuclear fuel waste management market in future. This surge refers to the cumulative amount of energy needed by a specific system or populace within a set timeframe. In cases where energy security becomes paramount, nations may focus on spent fuel management to lessen dependence on unsteady foreign energy sources. This could instigate a rise in investment towards reprocessing or other sophisticated waste management technologies. For instance, ExxonMobil, a US-based oil and gas corporation, stated in August 2023 that the global energy demand is predicted to hit approximately 660 quadrillion British thermal units (Btu) in 2050, denoting an approximately 15% growth from 2021. Hence, the escalating energy demand is fueling the expansion of the spent nuclear fuel waste management market.

Which Players Dominate The [Spent Nuclear Fuel Waste Management Industry](#) Landscape?

Major players in the Spent Nuclear Fuel Waste Management include:

- Veolia Environment SA
- Bechtel Corp.
- Fluor Corporation
- Westinghouse Electric Company LLC.
- SNC Lavalin Group Inc.
- John Wood Group
- Posiva Oy
- US Ecology Inc.
- Enercon Services Inc.
- Magnox Technologies Pvt Ltd.

What Are The Key Trends Shaping The Spent Nuclear Fuel Waste Management Industry?

Leading firms in spent fuel nuclear waste management are creating strategic affiliations to fortify their market presence. A strategic alliance refers to a cooperative relationship established among two or more organizations, usually businesses, to fulfill shared objectives that would be challenging or impossible to accomplish individually. For example, Skanska, a construction company based in Sweden, entered into a collaboration agreement with Svensk Kärnbränslehantering AB (SKB), a Swedish nuclear fuel and waste management company, in July 2023. The cooperation's intention is to improve the handling and disposal of nuclear waste in Sweden by leveraging Skanska's proficiency in construction and SKB's expertise in radioactive material management. This partnership aims to come up with innovative solutions that guarantee environmental protection and adhere to regulatory guidelines, echoing both organisations' dedication to sustainability in the energy sector.

Global Spent Nuclear Fuel Waste Management Market Segmentation By Type, Application, And Region

The spent nuclear fuel waste management market covered in this report is segmented –

- 1) By Type: Low-Level Waste, Intermediate-Level Waste, High-level Waste
- 2) By Disposal Type: Near Surface Disposal, Deep Surface Disposal
- 3) By Source: Nuclear Fuel Cycle, Research, Medical, and Industrial Source, Military And Defense Programs
- 4) By Application: Boiling Water Reactors, Gas Cooled Reactors, Pressurized Water Reactors, Pressurized Heavy Water Reactors, Other Applications

Subsegments:

- 1) By Low-Level Waste: Solid Low-Level Waste, Liquid Low-Level Waste
- 2) By Intermediate-Level Waste: Solid Intermediate-Level Waste, Liquid Intermediate-Level Waste
- 3) By High-Level Waste: Spent Nuclear Fuel, Highly Radioactive Waste

View the full spent nuclear fuel waste management market report:

<https://www.thebusinessresearchcompany.com/report/spent-nuclear-fuel-waste-management-global-market-report>

Which Region Holds The Largest Market Share In The Spent Nuclear Fuel Waste Management Market?

In 2024, North America led the market for spent nuclear fuel waste management. The region predicted to see the quickest growth in the future is Asia-Pacific. The report on the spent nuclear fuel waste management market included the following regions: Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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Speak With Our Expert:

Saumya Sahay

Americas +1 310-496-7795

Asia +44 7882 955267 & +91 8897263534

Europe +44 7882 955267

Email: saumyas@tbrc.info

The Business Research Company - www.thebusinessresearchcompany.com

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Oliver Guirdham

The Business Research Company

+44 7882 955267

info@tbrc.info

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