

North America Nuclear Decommissioning Market Size and Share - Outlook Report, Forecast Trends and Growth Analysis (2025-2034)

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Report description:

The North America nuclear decommissioning market size reached nearly USD 1.16 Billion in 2024. The market is projected to grow at a CAGR of 5.20% between 2025 and 2034, reaching almost USD 1.93 Billion by 2034.

Increasing safety concerns surrounding the operation of nuclear power plants amidst geopolitical tensions are prompting the US government to shift towards renewable sources of energy for powering up its households and industries. The high affordability of alternatives like solar and wind energy has made this shift increasingly attractive for consumers and industrialists. This is expected to accelerate the North America nuclear decommissioning market expansion in the forecast period.

The automation of key inspection and maintenance tasks at nuclear sites has emerged as one of the key North America nuclear decommissioning market trends. With the integration of LiDAR lasers on robots in high-radiation environments, workers can map their way around relatively less hazardous areas and perform clean-up operations. This ensures occupational safety and reduces the risk of adverse occurrences on site.

The decommissioning of nuclear power plants involves the safe disposal of nuclear wastes and the removal of all radioactive materials on-site. Deferred dismantling is the preferred strategy for nuclear decommissioning in North America because it minimises the levels of radioactive contamination over a long period of time, which provides companies with an opportunity to access loans for other decommissioning activities. This also reduces the overall cost of decommissioning, thereby contributing towards the North America nuclear decommissioning market growth.

Market Segmentation

North America Nuclear Decommissioning Market Report and Forecast 2025-2034 offers a detailed analysis of the market based on the following segments:

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Market Breakup by Reactor Type

- Pressurised Water Reactor (PWR)
- Pressurised Heavy Water Reactor (PHWR)
- Boiling Water Reactor (BWR)
- Gas Cooled Reactor (GCR)
- Others

Market Breakup by Strategy

- Immediate Dismantling
- Deferred Dismantling
- Entombment

Market Breakup by Capacity

- Up To 800 MW
- 801 MW - 1,000 MW
- Above 1,000 MW

Market Breakup by Country

- United States of America
- Canada

The key North America nuclear decommissioning market players are GE Hitachi Nuclear Energy Ltd., Toshiba Corp. (Toshiba Energy Systems & Solutions Corporation), Centrus Energy Corp., Orano S.A., Westinghouse Electric Company LLC, NorthStar Group Services, Inc., Holtec International, Manafort Brothers Inc., Jacobs Solutions Inc., and Radiation Safety & Control Services, Inc., among others.

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