

# **Nuclear Decommissioning Services Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2028 Segmented By Reactor Type (Pressurized Water Reactor, Boiling Water Reactor and Gas Cooled Reactor), By Capacity (Below 100 MW, 100 – 1,000 MW and Above 1,000 MW), By Application (Commercial Power Reactor, Prototype Power Reactor and Research Reactor), By Region, Competition, 2018-2028**

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## **Abstracts**

The Global Nuclear Decommissioning Services Market, valued at USD 3.95 billion in 2022, experiencing a steady growth rate with a CAGR of 6.71% throughout the forecast period. The necessity for nuclear facility decommissioning is shaped by several factors, including the plant's service life, political decisions, and considerations related to radiation risk. As nuclear power plants approach the conclusion of their operational lifespan, which typically spans 30 to 60 years, the process of shutdown and subsequent decommissioning becomes imperative. This entails the systematic dismantling and cleanup of facilities that are no longer viable either from an operational or economic standpoint. Over recent decades, a multitude of nuclear power plants, encompassing commercial generating reactors, prototype or experimental reactors, and research reactors, have undergone the decommissioning process.

### **Key Market Drivers**

Aging Nuclear Infrastructure and Regulatory Mandates

The global nuclear decommissioning services market is witnessing substantial growth attributed to the aging infrastructure of nuclear power plants and the strict regulatory mandates that necessitate the safe and responsible retirement of these facilities. Many nuclear power plants worldwide were constructed during the mid to late 20th century. As they approach the end of their operational lifespans, decommissioning becomes imperative to ensure public safety and environmental protection. One significant driver is the increasing number of nuclear power plants that have reached or are nearing the end of their operational lives. These aging facilities require decommissioning to mitigate risks. The decommissioning process involves dismantling and decontaminating various components of a nuclear facility, including reactors, cooling systems, and waste storage facilities. With the aging of more nuclear power plants, the demand for decommissioning services continues to rise. Moreover, stringent regulatory mandates play a crucial role in driving the global nuclear decommissioning services market. Regulatory bodies worldwide, such as the United States Nuclear Regulatory Commission (NRC) and the European Union's Nuclear Safety Directive, have established rigorous guidelines and safety standards for nuclear decommissioning. Compliance with these regulations is indispensable, and nuclear facility operators must adhere to them during the decommissioning process. This regulatory environment has generated a strong demand for specialized decommissioning service providers with the expertise and resources to ensure compliance and safety throughout the process. In summary, the aging nuclear infrastructure and the accompanying regulatory mandates are significant drivers of the global nuclear decommissioning services market. As more nuclear power plants approach the end of their operational lifespans and governments worldwide emphasize safety and environmental protection, the demand for these services will continue to grow, presenting significant opportunities for companies in the decommissioning sector.

### Increasing Focus on Environmental Stewardship and Waste Management

The global market for nuclear decommissioning services is propelled by a growing focus on environmental stewardship and the effective management of nuclear waste. With increasing concerns about climate change and the safe disposal of radioactive materials, governments and nuclear facility operators are actively seeking responsible solutions for retiring nuclear power plants. One significant driving force behind this market is the commitment to reducing the environmental impact of nuclear decommissioning. The decommissioning process generates various types of waste, including radioactive materials, contaminated equipment, and structural components. Ensuring the safe and environmentally responsible disposal of these materials is of utmost importance. As a result, there is a rising demand for decommissioning service

providers with expertise in waste management and disposal. Companies that can effectively manage and dispose of radioactive waste in compliance with regulatory standards are highly sought after in this market. Another driving factor is the development of innovative technologies for nuclear decommissioning that prioritize environmental sustainability. These technologies aim to minimize the environmental footprint of the decommissioning process. For instance, robotics and automation are being utilized to reduce workers' exposure to radiation and to facilitate the efficient dismantling of nuclear facilities. Additionally, advancements in materials science are leading to the development of materials that are easier to decontaminate and dispose of safely. These innovations are fostering the growth of the nuclear decommissioning services market by providing more environmentally friendly solutions. Furthermore, the global community's commitment to responsibly managing nuclear waste is exemplified by initiatives such as the geological disposal of high-level nuclear waste. Countries such as Finland and Sweden have made significant progress in developing deep geological repositories for the long-term storage of nuclear waste. These projects require specialized expertise in excavation, waste packaging, and safety assessments, further bolstering the demand for nuclear decommissioning services. In conclusion, the increasing emphasis on environmental stewardship, waste management, and the development of sustainable decommissioning technologies are key driving factors in the global market for nuclear decommissioning services. As the world strives for responsible solutions in the retirement of nuclear facilities, companies that offer expertise in these areas are well-positioned for growth and success.

### Growing Public Awareness and Opposition to Nuclear Energy

The global market for nuclear decommissioning services is influenced by the increasing public awareness of the risks associated with nuclear energy and the growing opposition to the construction of new nuclear power plants. Concerns about nuclear accidents, radioactive waste, and the proliferation of nuclear weapons have raised the urgency to safely manage existing nuclear facilities and responsibly decommission them. One significant driver is the impact of public opinion on nuclear energy. Notable nuclear disasters like Chernobyl and Fukushima have left a lasting impression on the public, heightening awareness about the potential catastrophic consequences of nuclear accidents. This heightened awareness has resulted in increased scrutiny of operating nuclear power plants and a reluctance to invest in new ones. Consequently, some countries are opting to phase out or reduce their reliance on nuclear energy, which, in turn, drives the demand for decommissioning services for existing facilities. Public opposition to new nuclear power plant construction is another driver of the decommissioning services market. In many regions, the approval and financing of new

nuclear projects have become politically challenging due to concerns about safety and environmental impacts. As a result, governments and energy companies are more inclined to focus on decommissioning existing plants rather than investing in new ones. This shift in priorities is bolstering the demand for specialized decommissioning services. Moreover, the desire to mitigate nuclear proliferation risks is driving the decommissioning of certain nuclear facilities, particularly research reactors and weapons-related facilities. As part of international non-proliferation efforts, some countries are decommissioning and dismantling such facilities to prevent the diversion of nuclear materials for illicit purposes. This process requires specialized expertise and contributes to the growth of the global nuclear decommissioning services market.

## Key Market Challenges

### High Costs and Funding Uncertainty

One of the primary challenges faced by the global nuclear decommissioning services market is the high cost associated with dismantling and decontaminating nuclear facilities. The process of nuclear decommissioning is complex and resource-intensive, requiring significant financial investment. This cost includes factors such as labor, specialized equipment, and proper disposal of radioactive waste. The complexity of decommissioning can lead to rapid cost escalation, particularly when unexpected challenges arise during the process. First and foremost, the size of nuclear facilities presents a substantial financial challenge. Large nuclear power plants with multiple reactors and auxiliary facilities require significant financial resources for decommissioning. These costs can be further compounded when considering long-term waste management and environmental restoration. Smaller research-oriented nuclear facilities also pose financial challenges, albeit on a smaller scale. Secondly, funding uncertainty is a major obstacle in the nuclear decommissioning services market. Government entities and nuclear operators are typically responsible for funding decommissioning activities. However, financial planning for decommissioning is often complex and spans several decades. As a result, the adequacy and availability of funding can become problematic, especially when nuclear operators are no longer generating revenue from electricity production. Furthermore, changes in government policies and political priorities can have an impact on the allocation of funds for decommissioning. For example, shifts in administration or changes in energy policy can result in reduced funding for nuclear decommissioning, leaving projects uncertain. This uncertainty can hinder the planning and execution of decommissioning efforts, potentially leading to delays and increased costs. Addressing this challenge requires robust, long-term financial planning and the establishment of dedicated funding

mechanisms. Governments and nuclear operators must ensure that funds are available throughout the entire decommissioning process, from initial planning to final site restoration. Additionally, creating financial safeguards against shifting political priorities can help mitigate funding uncertainty.

## Regulatory Complexity and Compliance

Navigating the intricate web of regulatory requirements poses a significant challenge in the global nuclear decommissioning services market. Regulatory agencies across different countries have established comprehensive guidelines and standards to ensure the safe and environmentally responsible decommissioning of nuclear facilities. Meeting these stringent requirements necessitates meticulous planning, execution, and documentation, adding complexity to the decommissioning process. Firstly, regulatory compliance demands a profound understanding of complex technical and safety standards. Decommissioning service providers must possess the expertise and knowledge to interpret and adhere to these regulations. Regulatory bodies often require extensive documentation and reporting, imposing an additional administrative burden on decommissioning projects. Secondly, variations in regulatory frameworks across different countries can pose challenges, particularly for multinational companies operating in the nuclear decommissioning services market. Service providers must adapt to differing regulatory environments, which can lead to additional costs and complexities in ensuring compliance. Furthermore, evolving regulatory landscapes can introduce uncertainty into decommissioning projects. Regulatory requirements may change over time, and keeping up with these changes can be demanding. Adapting ongoing projects to meet new regulations can result in delays and increased costs. To address these challenges, nuclear decommissioning service providers must establish a robust compliance framework that incorporates expertise in regulatory affairs. They should also proactively engage with regulatory bodies to stay informed about upcoming changes and ensure their projects align with evolving standards. Collaboration between industry stakeholders and regulators can lead to smoother decommissioning processes and reduced compliance-related hurdles.

## Key Market Trends

### Acceleration of Decommissioning Activities

One notable trend in the global market for nuclear decommissioning services is the increasing pace of decommissioning activities worldwide. This acceleration is driven by various factors, including the aging nuclear infrastructure, evolving energy landscapes,

and heightened regulatory pressure. First and foremost, the aging of nuclear power plants plays a significant role in driving this trend. Many of the world's nuclear facilities were built during the mid to late 20th century and are now approaching the end of their operational lifespans. As these facilities age, the imperative to decommission them becomes more apparent to ensure safety and environmental protection. Consequently, there has been a surge in decommissioning projects, particularly in countries with a substantial number of older nuclear power plants, such as the United States and several European nations. Secondly, changes in energy policies and priorities are influencing the acceleration of decommissioning efforts. Some countries are shifting their energy portfolios away from nuclear power in favor of renewable energy sources and natural gas. This transition often leads to the premature closure of nuclear plants, thereby prompting swift decommissioning endeavors. Additionally, the Fukushima Daiichi nuclear disaster in 2011 had a profound impact on public perception and government policies regarding nuclear energy, resulting in the accelerated decommissioning of nuclear plants in Japan and a reassessment of nuclear energy in other nations. Lastly, stringent regulatory mandates are driving the need for expedited decommissioning timelines. Regulatory bodies worldwide have established stringent guidelines for nuclear decommissioning, with a strong emphasis on safety and environmental protection. Complying with these requirements necessitates expeditious decommissioning processes, which can result in shorter project durations. This prevailing trend creates opportunities for companies in the nuclear decommissioning services market to expand their capabilities and capacity to meet the growing demand for decommissioning services. Furthermore, it highlights the importance of efficient project management, innovative technologies, and adherence to safety standards to ensure successful and timely decommissioning.

### Technological Advancements and Innovation

Another significant trend in the global market for nuclear decommissioning services is the rapid advancement of technologies and innovation in decommissioning processes. As the industry faces increasingly complex challenges, such as the dismantling of aging nuclear facilities and the management of radioactive waste, technology plays a pivotal role in streamlining operations, reducing costs, and enhancing safety. One key area of technological advancement is the utilization of robotics and automation in nuclear decommissioning. Remote-controlled robotic systems equipped with advanced sensors and tools are deployed to perform tasks that are hazardous or difficult for humans to undertake, such as the removal of radioactive materials and the dismantling of intricate components. These technologies not only improve safety by reducing human exposure to radiation but also expedite decommissioning processes. Furthermore, advances in

materials science contribute to the development of more efficient decontamination techniques. New materials that are easier to decontaminate and decontamination methods that are less resource-intensive become integral to decommissioning processes, reducing both time and cost. In the realm of waste management and disposal, innovative solutions emerge to address the long-term storage of high-level radioactive waste. Deep geological repositories, like those in Finland and Sweden, are being developed to provide safe and permanent storage options. Research into alternative disposal methods, such as advanced fuel recycling and transmutation, is also ongoing, promising more sustainable approaches to handling nuclear waste. The trend towards technological advancement and innovation in nuclear decommissioning services highlights the importance of research and development in the industry. Companies that invest in cutting-edge technologies and foster a culture of innovation are well-positioned to meet the evolving needs of decommissioning projects and gain a competitive edge in the market.

## Segmental Insights

### Capacity Insights

100 – 1,000 MW segment is expected to dominate the market during the forecast period. The market size for decommissioning services in this segment is substantial and is projected to experience steady growth in the coming years. This growth is primarily driven by the aging infrastructure of nuclear power plants, with many reactors in this capacity range reaching the end of their operational lifespans. Ensuring proper management of radioactive waste remains a paramount concern in this sector. To address the challenges associated with handling and disposing of radioactive materials generated during decommissioning, innovative waste management solutions, including compact and secure storage options, are being developed. Given the presence of nuclear facilities in this capacity range across various regions worldwide, companies capable of offering their expertise and services internationally can tap into a broader customer base. In conclusion, the 100 – 1,000 MW segment of the global nuclear decommissioning services market is characterized by aging reactors, technological advancements, and evolving waste management solutions. Although challenges related to funding, regulations, and waste management persist, significant opportunities exist for service providers to expand their presence in this market by offering innovative solutions and collaborating with operators and governments on responsible decommissioning projects.

### Reactor Type Insights

Pressurized Water Reactor (PWR) segment is expected to dominate the market during the forecast period. Pressurized Water Reactors (PWRs) have been extensively utilized for electricity generation, naval propulsion, and research, leading to a significant global presence of PWRs. As these reactors age, they undergo decommissioning, creating a substantial demand for decommissioning services. The market for PWR decommissioning services is substantial and projected to grow steadily in the upcoming years. Collaboration among countries with PWRs is commonplace in decommissioning projects. Such collaboration enables the exchange of expertise, resources, and best practices, resulting in more efficient and cost-effective decommissioning efforts. Given the global utilization of PWRs, companies offering their expertise and services internationally can access a broader customer base and participate in collaborative international projects. In conclusion, the PWR segment of the global nuclear decommissioning services market is characterized by aging reactors, advanced decommissioning technologies, and international collaboration. While funding, regulatory compliance, and radioactive waste management pose challenges, significant opportunities exist for service providers to expand their presence in this market by offering innovative solutions and collaborating with operators and governments on responsible PWR decommissioning projects.

## Regional Insights

North America is expected to dominate the market during the forecast period. Europe plays a significant role in the global nuclear decommissioning services market, boasting a diverse landscape of nuclear facilities encompassing power plants and research reactors. The region encompasses mature nuclear markets where numerous facilities are nearing the end of their operational lifespans, as well as emerging nuclear nations seeking to expand their expertise in decommissioning. In this analysis, we examine Europe's impact on the global nuclear decommissioning services market, shedding light on key trends, challenges, and opportunities. Europe is currently experiencing an upsurge in nuclear decommissioning activities. Strategic decisions made by countries such as Germany, Belgium, and the United Kingdom to phase out or reduce their reliance on nuclear power have led to the accelerated closure of nuclear facilities. Consequently, there is an increased demand for decommissioning services. European countries are at the forefront of technological advancements in nuclear decommissioning, leveraging robotics and automation to enhance safety and efficiency in dismantling and decontaminating nuclear facilities. This emphasis on innovation positions European companies as leaders in the development and implementation of advanced decommissioning technologies. Furthermore, Europe's focus on technological



advancements presents promising opportunities for companies to develop and commercialize innovative decommissioning technologies. These breakthroughs have the potential not only to benefit the region but also to find widespread application globally.

### Key Market Players

Ansaldo Energia S.p.A.

Babcock International Group PLC

Bechtel Corporation

GE Hitachi Nuclear Energy (GEH)

Westinghouse Electric Company LLC

Fluor Corporation

NUVIA Group

Northstar Group Services, Inc.

Elektra GmbH

NUKEM Technologies

### Report Scope:

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

Global Nuclear Decommissioning Services Market, By Reactor Type:

Pressurized Water Reactor

Boiling Water Reactor

Gas Cooled Reactor

Global Nuclear Decommissioning Services Market, By Capacity:

Below 100 MW

100 – 1,000 MW

Above 1,000 MW

Global Nuclear Decommissioning Services Market, By Application:

Commercial Power Reactor

Prototype Power Reactor

Research Reactor

Global Nuclear Decommissioning Services Market, By Region:

North America

Europe

South America

Middle East & Africa

Asia Pacific

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Nuclear Decommissioning Services Market.

Available Customizations:

Global Nuclear Decommissioning Services Market report with the given market data, Tech Sci 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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## **16. STRATEGIC RECOMMENDATIONS**

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