

# **Nuclear Plant Services Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Plant Type (Pressured, Boiling, Pressurized Heavy Water Plants, Gas Cooled Plants), By Services (Plant Commissioning, Operations Management, Laboratory Management, Safety & Environmental Services, Emergency Response Services, Modernization, Decontamination & Decommissioning, Quality Management), By Region, By Competition, 2018-2028**

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## **Abstracts**

Global Nuclear Plant Services Market was valued at USD 67.08 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 5.01% through 2028.

The Nuclear Plant Services market refers to a specialized sector of the global energy industry that provides a comprehensive range of services and solutions aimed at supporting the safe, efficient, and reliable operation of nuclear power plants. These services encompass various aspects of the nuclear energy lifecycle, including plant construction, commissioning, operation, maintenance, refurbishment, and decommissioning.

In this market, highly skilled professionals, engineering firms, and service providers offer expertise in areas such as nuclear safety, regulatory compliance, maintenance, and technological advancements. They work closely with nuclear power plant operators and government agencies to ensure that nuclear facilities adhere to stringent safety standards and environmental regulations.

The Nuclear Plant Services market plays a crucial role in addressing the challenges posed by aging nuclear infrastructure, enhancing safety measures, and meeting the growing demand for clean and sustainable energy sources. It is also integral in supporting the global transition towards a low-carbon future, as nuclear power remains a vital component of the energy mix, offering a reliable source of electricity with minimal greenhouse gas emissions.

## Key Market Drivers

### Aging Nuclear Infrastructure and Maintenance Needs

One of the primary drivers of the global Nuclear Plant Services market is the aging infrastructure of nuclear power plants. Many of the world's nuclear facilities were constructed during the mid to late 20th century, and as a result, they are reaching the end of their originally intended operational lifespans. The aging infrastructure presents a multitude of challenges and opportunities for the nuclear industry.

As nuclear power plants age, their components and systems gradually deteriorate due to factors such as radiation exposure, thermal stress, and mechanical wear and tear. This degradation necessitates regular maintenance, refurbishment, and replacement of critical components to ensure the continued safe and reliable operation of these facilities. These maintenance activities encompass a wide range of services, including reactor vessel inspections, steam generator replacements, and electrical system upgrades.

Furthermore, the need for enhanced safety measures and compliance with evolving regulatory standards further drives the demand for nuclear plant services. Aging plants must adapt to meet new safety requirements and maintain their licenses to operate. Consequently, service providers offering expertise in safety assessments, risk mitigation, and regulatory compliance play a crucial role in the nuclear industry.

### Expanding Global Nuclear Fleet

Despite challenges and controversies surrounding nuclear energy, some countries are actively expanding their nuclear power generation capacity. This expansion is driven by the need for a stable, low-carbon energy source to meet growing electricity demand while reducing greenhouse gas emissions. Emerging economies, in particular, are investing in nuclear energy as a part of their long-term energy strategies.

As new nuclear power plants are planned, constructed, and commissioned, there is a growing demand for various services throughout their lifecycle. These services encompass project management, construction, commissioning, operation, and maintenance. Service providers specializing in nuclear plant services are poised to benefit from the increasing demand for their expertise and support in bringing new nuclear facilities online and ensuring their efficient and safe operation.

### Stringent Regulatory Environment

The nuclear industry operates under a highly regulated environment, with stringent safety and environmental regulations in place to protect public health and minimize environmental impact. Compliance with these regulations is a paramount concern for nuclear power plant operators. As regulatory standards evolve and become more rigorous, operators must continually invest in services to meet these standards.

Regulatory compliance services in the nuclear plant services market encompass a wide range of activities, including safety assessments, environmental impact assessments, radiation monitoring, and emergency preparedness planning. Service providers with expertise in navigating the complex regulatory landscape and helping operators maintain compliance are in high demand.

### Growing Emphasis on Nuclear Safety

Safety is paramount in the nuclear industry due to the potentially catastrophic consequences of accidents or malfunctions. Recent nuclear incidents, such as the Fukushima Daiichi disaster in 2011, have amplified the global focus on nuclear safety. This increased emphasis on safety drives demand for services that enhance safety measures, conduct risk assessments, and develop emergency response plans.

Nuclear safety services include evaluating and upgrading safety systems, conducting probabilistic risk assessments, and ensuring that nuclear power plants are resilient to natural disasters and human errors. Service providers offering state-of-the-art safety solutions are essential to building and maintaining public confidence in nuclear energy.

### Technological Advancements and Digitalization

Technological advancements are a significant driver of innovation in the nuclear plant services market. As technology evolves, opportunities arise to improve the efficiency,

safety, and reliability of nuclear power plants. Service providers that leverage cutting-edge technologies and digitalization solutions are well-positioned to meet the evolving needs of the nuclear industry.

Digitalization in the nuclear sector involves the use of advanced data analytics, predictive maintenance, and automation to optimize plant operations, reduce downtime, and enhance safety. Additionally, developments in reactor design, materials science, and waste management technologies contribute to the growth of the nuclear plant services market. Service providers that can integrate these technological advancements into their offerings are highly sought after by nuclear operators.

### Environmental Concerns and Decarbonization Goals

The global imperative to address climate change and reduce greenhouse gas emissions has placed nuclear power in the spotlight as a low-carbon energy source. Nuclear energy is considered a crucial part of the solution to transition away from fossil fuels and achieve decarbonization goals.

Nuclear plant services that support the maintenance and operation of existing nuclear facilities, as well as services related to the decommissioning and waste management of retired plants, play a critical role in addressing environmental concerns. Service providers that specialize in these areas contribute to the sustainable growth of nuclear energy and help mitigate the impacts of climate change.

In conclusion, the global Nuclear Plant Services market is influenced by a multitude of drivers, including aging infrastructure, expanding nuclear fleets, regulatory demands, safety considerations, technological advancements, and environmental goals. These drivers collectively shape the demand for services that are essential for the continued safe, efficient, and sustainable operation of nuclear power plants, making the nuclear plant services market a vital component of the global energy landscape.

### Government Policies are Likely to Propel the Market

#### Nuclear Safety and Regulatory Frameworks

One of the most critical government policies in the global Nuclear Plant Services market is the establishment of comprehensive nuclear safety and regulatory frameworks. Governments worldwide recognize the potential risks associated with nuclear power, and therefore, they institute stringent regulations to ensure the safety of both nuclear

facilities and the surrounding environment.

These regulatory frameworks include guidelines for plant design, construction, operation, and decommissioning. They also stipulate safety assessment and inspection procedures, radiation protection measures, and emergency preparedness plans. Governments work closely with nuclear regulatory bodies to continually update and enforce these policies, ensuring that nuclear power plants adhere to the highest safety standards.

### Licensing and Permitting

Governments play a crucial role in the licensing and permitting of nuclear power plants. Before construction and operation, nuclear facilities must obtain licenses and permits to ensure they comply with safety, environmental, and land-use regulations. These licenses often require rigorous assessments of the facility's design, safety features, and emergency response plans.

The process of obtaining licenses and permits can be lengthy and complex, as it involves thorough reviews and public consultations. Governments aim to strike a balance between encouraging nuclear energy development and safeguarding public interests. The transparency and rigor of this policy are essential in instilling public trust and confidence in nuclear power.

### Financial Support and Incentives

To promote nuclear energy development, governments often provide financial support and incentives to nuclear power plant operators. These incentives can include loan guarantees, tax credits, or subsidies to make nuclear power more economically viable compared to other energy sources.

Additionally, governments may establish policies that facilitate the financing of new nuclear projects. These policies can include measures to reduce financing costs, provide access to low-interest loans, or create partnerships between public and private entities to share financial risks.

### Waste Management and Disposal

The safe management and disposal of nuclear waste are paramount concerns for governments with nuclear power programs. Policies related to nuclear waste

management encompass the handling, transportation, storage, and final disposal of radioactive waste materials generated by nuclear power plants.

Governments often establish centralized waste repositories and set regulations for waste packaging, transportation, and storage. They also fund research and development initiatives to explore advanced waste disposal technologies, such as deep geological repositories. The effectiveness of waste management policies is critical in mitigating long-term environmental and safety risks associated with nuclear power generation.

### Non-Proliferation and International Agreements

Governments are deeply involved in international efforts to prevent nuclear proliferation and promote the peaceful use of nuclear energy. They participate in treaties and agreements such as the Treaty on the Non-Proliferation of Nuclear Weapons (NPT) and the Comprehensive Nuclear-Test-Ban Treaty (CTBT) to curb the spread of nuclear weapons.

These policies reflect governments' commitment to ensuring that nuclear power technology and materials do not fall into the wrong hands. They also underscore the importance of international collaboration in monitoring and verifying compliance with non-proliferation agreements.

### Decarbonization and Climate Goals

Many governments have recognized nuclear power's role in addressing climate change and reducing greenhouse gas emissions. As part of broader decarbonization strategies, they may include nuclear energy as a key component of their energy mix.

These policies often involve setting ambitious targets for reducing carbon emissions and providing support for the expansion or refurbishment of existing nuclear power plants. Governments may also prioritize research and development efforts to advance next-generation nuclear technologies, such as small modular reactors (SMRs) and advanced fast reactors, to contribute to a low-carbon future.

In conclusion, government policies significantly influence the global Nuclear Plant Services market by shaping safety standards, regulatory frameworks, financial incentives, waste management strategies, international cooperation, and decarbonization goals. These policies are essential in ensuring the responsible and

sustainable development of nuclear energy while addressing environmental concerns and global security issues.

## Key Market Challenges

### Aging Nuclear Infrastructure and Maintenance

One of the primary challenges facing the global Nuclear Plant Services market is the aging infrastructure of existing nuclear power plants. Many of the world's nuclear facilities were constructed several decades ago, and their operational lifespans were originally estimated to be around 30 to 40 years. However, as these plants age, they require increasingly frequent and costly maintenance, refurbishment, and upgrades to ensure their continued safe and reliable operation.

The challenge of aging infrastructure in nuclear power plants is multifaceted:

**Costly Maintenance:** As nuclear plants get older, they experience wear and tear on critical components and systems. Routine maintenance becomes more frequent and expensive, as specialized materials and expertise are required to handle radioactive environments. This can strain the budgets of plant operators and governments.

**Risk of Unplanned Shutdowns:** Aging infrastructure increases the risk of unexpected failures, which can lead to unplanned shutdowns. These shutdowns not only disrupt electricity generation but can also result in substantial economic losses and compromise the reliability of nuclear power as a baseload energy source.

**Regulatory Compliance:** Regulatory bodies impose stringent safety and environmental standards on nuclear power plants. As these standards evolve, older plants may struggle to keep up with the latest requirements, leading to challenges in maintaining compliance. Meeting updated safety regulations often requires significant investments in plant upgrades and modernization.

**Skilled Workforce Shortages:** The nuclear industry faces a shortage of skilled workers, including engineers, technicians, and specialized labor, who are qualified to perform maintenance and refurbishment tasks in radiation-controlled environments. Finding and retaining qualified personnel to work on aging nuclear infrastructure can be a major challenge.

**Decommissioning Costs:** Eventually, nuclear power plants reach the end of their

operational lifespans and must be decommissioned. The costs and complexities associated with decommissioning and waste management are substantial challenges, as they require careful planning and adherence to regulatory requirements.

To address the challenge of aging infrastructure and maintenance in the Nuclear Plant Services market, plant operators, governments, and service providers must collaborate to develop comprehensive long-term maintenance strategies, invest in workforce training and development, and allocate sufficient resources for upgrades and modernization efforts.

### Public Perception and Safety Concerns

Another significant challenge facing the global Nuclear Plant Services market is public perception and safety concerns related to nuclear power. Despite its low carbon emissions and potential as a reliable energy source, nuclear power has long been a subject of controversy and skepticism due to high-profile accidents, such as the Chernobyl disaster in 1986 and the Fukushima Daiichi incident in 2011.

Key elements of this challenge include:

**Public Fear and Opposition:** The general public often harbors fears and misconceptions about nuclear power, including concerns about radiation exposure, accidents, and the long-term impact of nuclear waste. This fear can lead to opposition to the construction or expansion of nuclear power plants, making it challenging for governments and operators to gain public support.

**Regulatory Complexity:** Public safety concerns have led to increasingly stringent regulatory requirements for nuclear power plants. While these regulations are essential for ensuring safety, their complexity and the time required for approval can significantly slow down project timelines and increase costs.

**Decommissioning and Waste Disposal:** The challenge of safely decommissioning nuclear power plants and managing radioactive waste is closely tied to public perception. Public opposition can complicate the process of selecting and developing disposal sites for nuclear waste, leading to delays and uncertainty regarding the long-term management of nuclear materials.

**Risk Communication:** Effectively communicating the risks and benefits of nuclear power to the public is a significant challenge. Misinformation and public mistrust can hinder



transparent and constructive dialogues about nuclear energy's role in addressing climate change and meeting energy needs.

Addressing the challenge of public perception and safety concerns in the Nuclear Plant Services market requires concerted efforts by governments, operators, and industry stakeholders. Public education and engagement campaigns, transparent communication about safety measures, and adherence to the highest safety standards are essential to building trust and addressing the concerns associated with nuclear power. Additionally, continuous improvements in nuclear safety technology and practices can further enhance the industry's reputation and safety record.

## Segmental Insights

### Pressurized Heavy Water Plants Insights

The Pressurized Heavy Water Plants (PHWR) segment held the largest market share in 2022. PHWRs are more commonly found in specific regions, such as Canada and India. In Canada, the CANDU (Canada Deuterium Uranium) reactor, a type of PHWR, has been widely adopted. In India, PHWRs have played a significant role in the country's nuclear energy program. The concentration of these plants in certain regions leads to a higher demand for services related to PHWRs in those areas. Government policies and energy strategies can influence the dominance of certain reactor types. In countries where there is strong government support for PHWRs, such as Canada and India, these reactors are more likely to dominate the market. Government investments in nuclear power can drive demand for services related to PHWRs. The age of existing nuclear facilities is a crucial factor. PHWRs have been in operation for several decades in some regions. As these plants age, they require more maintenance, upgrades, and modernization, which leads to a greater demand for Nuclear Plant Services specific to PHWRs. In regions where PHWRs are prevalent, there is a well-established expertise and workforce skilled in servicing and maintaining this type of reactor. This expertise can lead to a thriving market for Nuclear Plant Services related to PHWRs. PHWRs often use natural uranium or slightly enriched uranium as fuel, which can be advantageous in regions with readily available uranium resources. This can influence the choice of reactor type and the demand for services associated with PHWRs.

### Operations Management Insights

The Operations Management segment held the largest market share in 2022. Nuclear power plants are expected to operate continuously and provide a stable source of

electricity to the grid. Any interruption in power generation can have significant economic and operational implications. Therefore, operations management services play a critical role in ensuring the uninterrupted and efficient operation of nuclear facilities. Nuclear power plants are highly complex and require specialized expertise to manage. Operations management services encompass a wide range of activities, including reactor control, fuel management, maintenance scheduling, and outage planning. These tasks are intricate and demand a deep understanding of nuclear physics and engineering. Nuclear power plants are subject to strict regulatory standards to ensure safety, security, and environmental protection. Compliance with these regulations is essential for the continued operation of nuclear facilities. Operations management services include ensuring that all operational activities adhere to these stringent regulatory requirements. Safety is paramount in the nuclear industry. Operations management services focus on safety protocols, radiation protection, and risk mitigation strategies. These services are vital to preventing accidents and ensuring the well-being of plant personnel and the surrounding community. Optimization of plant performance is a key goal in the nuclear industry. Operations management services involve monitoring plant performance, identifying inefficiencies, and implementing measures to enhance efficiency, thereby maximizing electricity output. Operations management services require a highly skilled and experienced workforce, including licensed reactor operators and qualified nuclear engineers. The availability of qualified personnel with expertise in nuclear operations further contributes to the dominance of this segment. Many nuclear power plants have operational lifespans spanning several decades. As these plants age, their operation and maintenance become increasingly complex and require specialized attention. Operations management services are instrumental in extending the operational lifespans of aging nuclear facilities. Nuclear power often serves as a baseload energy source, providing a stable and reliable supply of electricity to the grid. Operations management services are vital in maintaining grid reliability, especially in regions where nuclear power plays a significant role in the energy mix.

## Regional Insights

### North America

The North American nuclear power plant services market was the largest in the world, accounting for over 30% of the global market in 2022. The region is home to the largest fleet of nuclear power plants in the world, and many of these plants are aging and require maintenance and refurbishment. The United States is the dominant player in the North American nuclear power plant services market.

Key trends in the North American nuclear power plant services market:

**Increasing demand for nuclear power plant services:** The demand for nuclear power plant services in North America is expected to grow in the coming years, driven by the aging nuclear power plant fleet and the need to maintain and refurbish these plants.

**Growing emphasis on safety and security:** The safety and security of nuclear power plants is a top priority for governments and operators in North America. This is driving the demand for safety and security-related services in the nuclear power plant services market.

**Development of new nuclear power technologies:** New nuclear power technologies, such as small modular reactors (SMRs), are being developed and deployed in North America. This is creating new opportunities for nuclear power plant services companies.

## Europe

The European nuclear power plant services market was the second-largest in the world, accounting for over 25% of the global market in 2022. France is the dominant player in the European nuclear power plant services market, followed by the United Kingdom, Germany, and Russia.

Key trends in the European nuclear power plant services market:

**Aging nuclear power plant fleet:** The European nuclear power plant fleet is one of the oldest in the world, with an average age of over 35 years. This is creating a growing demand for maintenance and refurbishment services in the region.

**Growing emphasis on safety and security:** The safety and security of nuclear power plants is a top priority for governments and operators in Europe. This is driving the demand for safety and security-related services in the nuclear power plant services market.

**Decommissioning of nuclear power plants:** A number of nuclear power plants in Europe are scheduled to be decommissioned in the coming years. This is creating new opportunities for nuclear power plant services companies that specialize in decommissioning services.

## Asia Pacific

The Asia Pacific nuclear power plant services market is the fastest-growing market in the world, with a high CAGR in the upcoming years. China is the dominant player in the Asia Pacific nuclear power plant services market, followed by India, South Korea, and Japan.

Key trends in the Asia Pacific nuclear power plant services market:

**Increasing demand for nuclear power:** The demand for nuclear power in the Asia Pacific region is expected to grow significantly in the coming years, driven by the need to meet growing energy needs and reduce carbon emissions.

**Construction of new nuclear power plants:** A number of new nuclear power plants are under construction in the Asia Pacific region. This is creating new opportunities for nuclear power plant services companies that specialize in construction and commissioning services.

**Growing emphasis on safety and security:** The safety and security of nuclear power plants is a top priority for governments and operators in the Asia Pacific region. This is driving the demand for safety and security-related services in the nuclear power plant services market.

## Key Market Players

Westinghouse Electric Company LLC

Bechtel Group Inc.

Jacobs Engineering Group Inc.

GE Hitachi Nuclear Energy LLC

Fluor Corporation

Framatome

EDF Energy Services LLC

SNC-Lavalin Group Inc

KEPCO E&C

CNNC International Ltd

Report Scope:

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

Nuclear Plant Services Market, By Plant Type:

Pressured

Boiling

Pressurized Heavy Water Plants

Gas Cooled Plants

Nuclear Plant Services Market, By Services:

Plant Commissioning

Operations Management

Laboratory Management

Safety & Environmental Services

Emergency Response Services

Modernization

Decontamination & Decommissioning

Quality Management

## Nuclear Plant Services 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

Kuwait

Turkey

## Competitive Landscape

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

## Available Customizations:

Global Nuclear Plant 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).

## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
- 1.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
  - 2.5.1. Secondary Research
  - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
  - 2.6.1. The Bottom-Up Approach
  - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
  - 2.8.1. Data Triangulation & Validation

### **3. EXECUTIVE SUMMARY**

### **4. VOICE OF CUSTOMER**

### **5. GLOBAL NUCLEAR PLANT SERVICES MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Plant Type (Pressured, Boiling, Pressurized Heavy Water Plants, Gas Cooled Plants)



5.2.2. By Services (Plant Commissioning, Operations Management, Laboratory Management, Safety & Environmental Services, Emergency Response Services, Modernization, Decontamination & Decommissioning, Quality Management)

5.2.3. By Region

5.2.4. By Company (2022)

5.3. Market Map

## **6. NORTH AMERICA NUCLEAR PLANT SERVICES MARKET OUTLOOK**

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Plant Type

6.2.2. By Services

6.2.3. By Country

6.3. North America: Country Analysis

6.3.1. United States Nuclear Plant Services Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Plant Type

6.3.1.2.2. By Services

6.3.2. Canada Nuclear Plant Services Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Plant Type

6.3.2.2.2. By Services

6.3.3. Mexico Nuclear Plant Services Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Plant Type

6.3.3.2.2. By Services

## **7. EUROPE NUCLEAR PLANT SERVICES MARKET OUTLOOK**

7.1. Market Size & Forecast

7.1.1. By Value

## 7.2. Market Share & Forecast

### 7.2.1. By Plant Type

### 7.2.2. By Services

### 7.2.3. By Country

## 7.3. Europe: Country Analysis

### 7.3.1. Germany Nuclear Plant Services Market Outlook

#### 7.3.1.1. Market Size & Forecast

##### 7.3.1.1.1. By Value

#### 7.3.1.2. Market Share & Forecast

##### 7.3.1.2.1. By Plant Type

##### 7.3.1.2.2. By Services

### 7.3.2. United Kingdom Nuclear Plant Services Market Outlook

#### 7.3.2.1. Market Size & Forecast

##### 7.3.2.1.1. By Value

#### 7.3.2.2. Market Share & Forecast

##### 7.3.2.2.1. By Plant Type

##### 7.3.2.2.2. By Services

### 7.3.3. Italy Nuclear Plant Services Market Outlook

#### 7.3.3.1. Market Size & Forecast

##### 7.3.3.1.1. By Value

#### 7.3.3.2. Market Share & Forecast

##### 7.3.3.2.1. By Plant Type

##### 7.3.3.2.2. By Services

### 7.3.4. France Nuclear Plant Services Market Outlook

#### 7.3.4.1. Market Size & Forecast

##### 7.3.4.1.1. By Value

#### 7.3.4.2. Market Share & Forecast

##### 7.3.4.2.1. By Plant Type

##### 7.3.4.2.2. By Services

### 7.3.5. Spain Nuclear Plant Services Market Outlook

#### 7.3.5.1. Market Size & Forecast

##### 7.3.5.1.1. By Value

#### 7.3.5.2. Market Share & Forecast

##### 7.3.5.2.1. By Plant Type

##### 7.3.5.2.2. By Services

## **8. ASIA-PACIFIC NUCLEAR PLANT SERVICES MARKET OUTLOOK**

### 8.1. Market Size & Forecast

- 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Plant Type
  - 8.2.2. By Services
  - 8.2.3. By Country
- 8.3. Asia-Pacific: Country Analysis
  - 8.3.1. China Nuclear Plant Services Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Plant Type
      - 8.3.1.2.2. By Services
  - 8.3.2. India Nuclear Plant Services Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Plant Type
      - 8.3.2.2.2. By Services
  - 8.3.3. Japan Nuclear Plant Services Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value
    - 8.3.3.2. Market Share & Forecast
      - 8.3.3.2.1. By Plant Type
      - 8.3.3.2.2. By Services
  - 8.3.4. South Korea Nuclear Plant Services Market Outlook
    - 8.3.4.1. Market Size & Forecast
      - 8.3.4.1.1. By Value
    - 8.3.4.2. Market Share & Forecast
      - 8.3.4.2.1. By Plant Type
      - 8.3.4.2.2. By Services
  - 8.3.5. Australia Nuclear Plant Services Market Outlook
    - 8.3.5.1. Market Size & Forecast
      - 8.3.5.1.1. By Value
    - 8.3.5.2. Market Share & Forecast
      - 8.3.5.2.1. By Plant Type
      - 8.3.5.2.2. By Services

## **9. SOUTH AMERICA NUCLEAR PLANT SERVICES MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Plant Type
  - 9.2.2. By Services
  - 9.2.3. By Country
- 9.3. South America: Country Analysis
  - 9.3.1. Brazil Nuclear Plant Services Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Plant Type
      - 9.3.1.2.2. By Services
  - 9.3.2. Argentina Nuclear Plant Services Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Plant Type
      - 9.3.2.2.2. By Services
  - 9.3.3. Colombia Nuclear Plant Services Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value
    - 9.3.3.2. Market Share & Forecast
      - 9.3.3.2.1. By Plant Type
      - 9.3.3.2.2. By Services

## **10. MIDDLE EAST AND AFRICA NUCLEAR PLANT SERVICES MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Plant Type
  - 10.2.2. By Services
  - 10.2.3. By Country
- 10.3. MEA: Country Analysis
  - 10.3.1. South Africa Nuclear Plant Services Market Outlook
    - 10.3.1.1. Market Size & Forecast
      - 10.3.1.1.1. By Value
    - 10.3.1.2. Market Share & Forecast

- 10.3.1.2.1. By Plant Type
- 10.3.1.2.2. By Services
- 10.3.2. Saudi Arabia Nuclear Plant Services Market Outlook
  - 10.3.2.1. Market Size & Forecast
    - 10.3.2.1.1. By Value
  - 10.3.2.2. Market Share & Forecast
    - 10.3.2.2.1. By Plant Type
    - 10.3.2.2.2. By Services
- 10.3.3. UAE Nuclear Plant Services Market Outlook
  - 10.3.3.1. Market Size & Forecast
    - 10.3.3.1.1. By Value
  - 10.3.3.2. Market Share & Forecast
    - 10.3.3.2.1. By Plant Type
    - 10.3.3.2.2. By Services
- 10.3.4. Kuwait Nuclear Plant Services Market Outlook
  - 10.3.4.1. Market Size & Forecast
    - 10.3.4.1.1. By Value
  - 10.3.4.2. Market Share & Forecast
    - 10.3.4.2.1. By Plant Type
    - 10.3.4.2.2. By Services
- 10.3.5. Turkey Nuclear Plant Services Market Outlook
  - 10.3.5.1. Market Size & Forecast
    - 10.3.5.1.1. By Value
  - 10.3.5.2. Market Share & Forecast
    - 10.3.5.2.1. By Plant Type
    - 10.3.5.2.2. By Services

## **11. MARKET DYNAMICS**

## **12. MARKET TRENDS & DEVELOPMENTS**

## **13. COMPANY PROFILES**

- 13.1. Westinghouse Electric Company LLC
  - 13.1.1. Business Overview
  - 13.1.2. Key Revenue and Financials
  - 13.1.3. Recent Developments

- 13.1.4. Key Personnel/Key Contact Person
- 13.1.5. Key Product/Services Offered
- 13.2. Bechtel Group Inc.
  - 13.2.1. Business Overview
  - 13.2.2. Key Revenue and Financials
  - 13.2.3. Recent Developments
  - 13.2.4. Key Personnel/Key Contact Person
  - 13.2.5. Key Product/Services Offered
- 13.3. Jacobs Engineering Group Inc.
  - 13.3.1. Business Overview
  - 13.3.2. Key Revenue and Financials
  - 13.3.3. Recent Developments
  - 13.3.4. Key Personnel/Key Contact Person
  - 13.3.5. Key Product/Services Offered
- 13.4. GE Hitachi Nuclear Energy LLC
  - 13.4.1. Business Overview
  - 13.4.2. Key Revenue and Financials
  - 13.4.3. Recent Developments
  - 13.4.4. Key Personnel/Key Contact Person
  - 13.4.5. Key Product/Services Offered
- 13.5. Fluor Corporation
  - 13.5.1. Business Overview
  - 13.5.2. Key Revenue and Financials
  - 13.5.3. Recent Developments
  - 13.5.4. Key Personnel/Key Contact Person
  - 13.5.5. Key Product/Services Offered
- 13.6. Framatome
  - 13.6.1. Business Overview
  - 13.6.2. Key Revenue and Financials
  - 13.6.3. Recent Developments
  - 13.6.4. Key Personnel/Key Contact Person
  - 13.6.5. Key Product/Services Offered
- 13.7. EDF Energy Services LLC
  - 13.7.1. Business Overview
  - 13.7.2. Key Revenue and Financials
  - 13.7.3. Recent Developments
  - 13.7.4. Key Personnel/Key Contact Person
  - 13.7.5. Key Product/Services Offered
- 13.8. SNC-Lavalin Group Inc

- 13.8.1. Business Overview
- 13.8.2. Key Revenue and Financials
- 13.8.3. Recent Developments
- 13.8.4. Key Personnel/Key Contact Person
- 13.8.5. Key Product/Services Offered
- 13.9. KEPCO E&C
  - 13.9.1. Business Overview
  - 13.9.2. Key Revenue and Financials
  - 13.9.3. Recent Developments
  - 13.9.4. Key Personnel/Key Contact Person
  - 13.9.5. Key Product/Services Offered
- 13.10. CNNC International Ltd
  - 13.10.1. Business Overview
  - 13.10.2. Key Revenue and Financials
  - 13.10.3. Recent Developments
  - 13.10.4. Key Personnel/Key Contact Person
  - 13.10.5. Key Product/Services Offered

## **14. STRATEGIC RECOMMENDATIONS**

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