

# Global Nuclear Power Reactor Pressure Vessel Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Nuclear Power Reactor Pressure Vessel market size was valued at US\$ 7767 million in 2024 and is forecast to a readjusted size of USD 15270 million by 2031 with a CAGR of 10.3% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Nuclear power reactor pressure vessel is a closed container that houses the nuclear reactor and withstands its huge operating pressure. It is also called the reactor pressure vessel. It is a key equipment in a pressurized water reactor nuclear power plant. It has the characteristics of high manufacturing technology standards, high difficulty and long cycle. It is also a non-replaceable equipment. It must be guaranteed to be absolutely safe and reliable during the 40-year life of the nuclear power plant. The reactor pressure vessel fixes and contains the core and the internal components of the reactor, so that the fission reaction of the nuclear fuel is confined to a sealed space. It and the primary circuit pipeline together form the pressure boundary of the high-pressure coolant, which is one of the second barriers to prevent the escape of radioactive substances. Reactor pressure vessels are divided into two categories: steel and prestressed concrete. Steel pressure vessels can be used in various types of nuclear reactors. Prestressed concrete pressure vessels have been successfully used in gas-cooled reactors and are being explored for use in other types of nuclear reactors.

The industry is witnessing increased interest in nuclear power as a clean energy source,

driven by the global push for decarbonization and the need for reliable, low-emission electricity. Governments and private entities are investing in research and development for innovative nuclear technologies, emphasizing safety, efficiency, and waste reduction. Additionally, advancements in digitalization and automation are being incorporated into nuclear facilities for enhanced monitoring, control, and safety. The market is also influenced by efforts to extend the lifespan of existing nuclear plants through upgrades and refurbishments, promoting a mix of both traditional and advanced nuclear technologies to meet diverse energy needs.

This report is a detailed and comprehensive analysis for global Nuclear Power Reactor Pressure Vessel market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Nuclear Power Reactor Pressure Vessel market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Nuclear Power Reactor Pressure Vessel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Nuclear Power Reactor Pressure Vessel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Nuclear Power Reactor Pressure Vessel market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

#### The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Nuclear Power Reactor Pressure Vessel
- To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Nuclear Power Reactor Pressure Vessel market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Framatome, Mitsubishi Power, DOOSAN, BWX Technologies Inc., IHI Corporation, KEPCO, Shanghai Electric, Dongfang Electric, Hitachi-GE, China First Heavy Industries, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### Market Segmentation

Nuclear Power Reactor Pressure Vessel market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

Steel Pressure Vessel

Prestressed Concrete Pressure Vessel

#### Market segment by Application

Boiling Water Reactors

Pressurized Water Reactors

Heavy Water Reactors

??

#### Major players covered

Framatome

Mitsubishi Power

DOOSAN

BWX Technologies Inc.

IHI Corporation

KEPCO

Shanghai Electric

Dongfang Electric

Hitachi-GE

China First Heavy Industries

Larsen & Toubro

Japan Steel Works

Harbin Electric Company Limited

Suzhou Hailu Heavy Industry Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Nuclear Power Reactor Pressure Vessel product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nuclear Power Reactor Pressure Vessel, with price, sales quantity, revenue, and global market share of Nuclear Power Reactor Pressure Vessel from 2020 to 2025.

Chapter 3, the Nuclear Power Reactor Pressure Vessel competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nuclear Power Reactor Pressure Vessel breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Nuclear Power Reactor Pressure Vessel market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Nuclear Power Reactor Pressure Vessel.

Chapter 14 and 15, to describe Nuclear Power Reactor Pressure Vessel sales channel, distributors, customers, research findings and conclusion.

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