

Global Nuclear Reactor Pressure Vessel (RPV) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Nuclear Reactor Pressure Vessel (RPV) market size was valued at US\$ million in 2025 and is forecast to a readjusted size of US\$ million by 2032 with a CAGR of %during review period.

A Nuclear Reactor Pressure Vessel (RPV) is a crucial component in a nuclear power plant responsible for containing and confining the reactor core. It is a robust, typically cylindrical steel structure that houses the nuclear fuel and coolant, ensuring that the reactor operates under controlled and safe conditions. The RPV is designed to withstand high pressure and temperature conditions generated by the nuclear fission reactions occurring within the reactor core. Its primary functions include containing radioactive materials, providing structural integrity, and allowing controlled circulation of coolant for efficient heat transfer. The RPV is a critical safety barrier in nuclear reactors, and its design and manufacturing adhere to stringent standards to ensure the overall safety and reliability of nuclear power plants.

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 Reactor Pressure Vessel (RPV) 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 Reactor Pressure Vessel (RPV) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Nuclear Reactor Pressure Vessel (RPV) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Nuclear Reactor Pressure Vessel (RPV) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Nuclear Reactor Pressure Vessel (RPV) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Reactor Pressure Vessel (RPV)

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 Reactor Pressure Vessel (RPV) 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, Japan Steel Works, Mitsubishi Power, BWX Technologies, IHI Corporation, Dongfang Electric, Shanghai Electric, KEPCO, Doosan Enerbility, China First Heavy Industries, etc.

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

Market Segmentation

Nuclear Reactor Pressure Vessel (RPV) market is split by Type and by Application. For the period 2021-2032, 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 (BWR)

Pressurized Water Reactors (PWR)

Heavy Water Reactors (CANDU)

Gas Cooled Reactor (GCR)

Major players covered

Framatome

Japan Steel Works

Mitsubishi Power

BWX Technologie

IHI Corporation

Dongfang Electric

Shanghai Electric

KEPCO

Doosan Enerbility

China First Heavy Industries

Larsen & Toubro

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 Reactor Pressure Vessel (RPV) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nuclear Reactor Pressure Vessel (RPV), with price, sales quantity, revenue, and global market share of Nuclear Reactor Pressure Vessel (RPV) from 2021 to 2026.

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

Chapter 4, the Nuclear Reactor Pressure Vessel (RPV) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Nuclear Reactor Pressure Vessel (RPV) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Reactor Pressure Vessel (RPV).

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Steel Pressure Vessel

1.3.3 Prestressed Concrete Pressure Vessel

1.4 Market Analysis by Application

1.4.1 Overview: Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.4.2 Boiling Water Reactors (BWR)

1.4.3 Pressurized Water Reactors (PWR)

1.4.4 Heavy Water Reactors (CANDU)

1.4.5 Gas Cooled Reactor (GCR)

1.5 Global Nuclear Reactor Pressure Vessel (RPV) Market Size & Forecast

1.5.1 Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021 & 2025 & 2032)

1.5.2 Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity (2021-2032)

1.5.3 Global Nuclear Reactor Pressure Vessel (RPV) Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Framatome

2.1.1 Framatome Details

2.1.2 Framatome Major Business

2.1.3 Framatome Nuclear Reactor Pressure Vessel (RPV) Product and Services

2.1.4 Framatome Nuclear Reactor Pressure Vessel (RPV) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Framatome Recent Developments/Updates

2.2 Japan Steel Works

2.2.1 Japan Steel Works Details

2.2.2 Japan Steel Works Major Business

2.2.3 Japan Steel Works Nuclear Reactor Pressure Vessel (RPV) Product and Services

2.2.4 Japan Steel Works Nuclear Reactor Pressure Vessel (RPV) Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Japan Steel Works Recent Developments/Updates

2.3 Mitsubishi Power

2.3.1 Mitsubishi Power Details

2.3.2 Mitsubishi Power Major Business

2.3.3 Mitsubishi Power Nuclear Reactor Pressure Vessel (RPV) Product and Services

2.3.4 Mitsubishi Power Nuclear Reactor Pressure Vessel (RPV) Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Mitsubishi Power Recent Developments/Updates

2.4 BWX Technologie

2.4.1 BWX Technologie Details

2.4.2 BWX Technologie Major Business

2.4.3 BWX Technologie Nuclear Reactor Pressure Vessel (RPV) Product and Services

2.4.4 BWX Technologie Nuclear Reactor Pressure Vessel (RPV) Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 BWX Technologie Recent Developments/Updates

2.5 IHI Corporation

2.5.1 IHI Corporation Details

2.5.2 IHI Corporation Major Business

2.5.3 IHI Corporation Nuclear Reactor Pressure Vessel (RPV) Product and Services

2.5.4 IHI Corporation Nuclear Reactor Pressure Vessel (RPV) Sales Quantity, Average

Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 IHI Corporation Recent Developments/Updates

2.6 Dongfang Electric

2.6.1 Dongfang Electric Details

2.6.2 Dongfang Electric Major Business

2.6.3 Dongfang Electric Nuclear Reactor Pressure Vessel (RPV) Product and Services

2.6.4 Dongfang Electric Nuclear Reactor Pressure Vessel (RPV) Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Dongfang Electric Recent Developments/Updates

2.7 Shanghai Electric

2.7.1 Shanghai Electric Details

2.7.2 Shanghai Electric Major Business

2.7.3 Shanghai Electric Nuclear Reactor Pressure Vessel (RPV) Product and Services

2.7.4 Shanghai Electric Nuclear Reactor Pressure Vessel (RPV) Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Shanghai Electric Recent Developments/Updates

2.8 KEPCO

2.8.1 KEPCO Details

- 2.8.2 KEPCO Major Business
- 2.8.3 KEPCO Nuclear Reactor Pressure Vessel (RPV) Product and Services
- 2.8.4 KEPCO Nuclear Reactor Pressure Vessel (RPV) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.8.5 KEPCO Recent Developments/Updates
- 2.9 Doosan Enerbility
 - 2.9.1 Doosan Enerbility Details
 - 2.9.2 Doosan Enerbility Major Business
 - 2.9.3 Doosan Enerbility Nuclear Reactor Pressure Vessel (RPV) Product and Services
 - 2.9.4 Doosan Enerbility Nuclear Reactor Pressure Vessel (RPV) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Doosan Enerbility Recent Developments/Updates
- 2.10 China First Heavy Industries
 - 2.10.1 China First Heavy Industries Details
 - 2.10.2 China First Heavy Industries Major Business
 - 2.10.3 China First Heavy Industries Nuclear Reactor Pressure Vessel (RPV) Product and Services
 - 2.10.4 China First Heavy Industries Nuclear Reactor Pressure Vessel (RPV) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 China First Heavy Industries Recent Developments/Updates
- 2.11 Larsen & Toubro
 - 2.11.1 Larsen & Toubro Details
 - 2.11.2 Larsen & Toubro Major Business
 - 2.11.3 Larsen & Toubro Nuclear Reactor Pressure Vessel (RPV) Product and Services
 - 2.11.4 Larsen & Toubro Nuclear Reactor Pressure Vessel (RPV) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Larsen & Toubro Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: NUCLEAR REACTOR PRESSURE VESSEL (RPV) BY MANUFACTURER

- 3.1 Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Nuclear Reactor Pressure Vessel (RPV) Revenue by Manufacturer (2021-2026)
- 3.3 Global Nuclear Reactor Pressure Vessel (RPV) Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Nuclear Reactor Pressure Vessel (RPV) by Manufacturer

Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Nuclear Reactor Pressure Vessel (RPV) Manufacturer Market Share in 2025

3.4.3 Top 6 Nuclear Reactor Pressure Vessel (RPV) Manufacturer Market Share in 2025

3.5 Nuclear Reactor Pressure Vessel (RPV) Market: Overall Company Footprint Analysis

3.5.1 Nuclear Reactor Pressure Vessel (RPV) Market: Region Footprint

3.5.2 Nuclear Reactor Pressure Vessel (RPV) Market: Company Product Type Footprint

3.5.3 Nuclear Reactor Pressure Vessel (RPV) Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Nuclear Reactor Pressure Vessel (RPV) Market Size by Region

4.1.1 Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Region (2021-2032)

4.1.2 Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Region (2021-2032)

4.1.3 Global Nuclear Reactor Pressure Vessel (RPV) Average Price by Region (2021-2032)

4.2 North America Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032)

4.3 Europe Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032)

4.4 Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032)

4.5 South America Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032)

4.6 Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2021-2032)

5.2 Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Type (2021-2032)

5.3 Global Nuclear Reactor Pressure Vessel (RPV) Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2021-2032)

6.2 Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Application (2021-2032)

6.3 Global Nuclear Reactor Pressure Vessel (RPV) Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2021-2032)

7.2 North America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2021-2032)

7.3 North America Nuclear Reactor Pressure Vessel (RPV) Market Size by Country

7.3.1 North America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Country (2021-2032)

7.3.2 North America Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2021-2032)

8.2 Europe Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2021-2032)

8.3 Europe Nuclear Reactor Pressure Vessel (RPV) Market Size by Country

8.3.1 Europe Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Country (2021-2032)

8.3.2 Europe Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Market Size by Region

9.3.1 Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2021-2032)

10.2 South America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2021-2032)

10.3 South America Nuclear Reactor Pressure Vessel (RPV) Market Size by Country

10.3.1 South America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Country (2021-2032)

10.3.2 South America Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by

Type (2021-2032)

11.2 Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Market Size by Country

11.3.1 Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Nuclear Reactor Pressure Vessel (RPV) Market Drivers

12.2 Nuclear Reactor Pressure Vessel (RPV) Market Restraints

12.3 Nuclear Reactor Pressure Vessel (RPV) Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Nuclear Reactor Pressure Vessel (RPV) and Key Manufacturers

13.2 Manufacturing Costs Percentage of Nuclear Reactor Pressure Vessel (RPV)

13.3 Nuclear Reactor Pressure Vessel (RPV) Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Nuclear Reactor Pressure Vessel (RPV) Typical Distributors

14.3 Nuclear Reactor Pressure Vessel (RPV) Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 3. Framatome Basic Information, Manufacturing Base and Competitors

Table 4. Framatome Major Business

Table 5. Framatome Nuclear Reactor Pressure Vessel (RPV) Product and Services

Table 6. Framatome Nuclear Reactor Pressure Vessel (RPV) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 7. Framatome Recent Developments/Updates

Table 8. Japan Steel Works Basic Information, Manufacturing Base and Competitors

Table 9. Japan Steel Works Major Business

Table 10. Japan Steel Works Nuclear Reactor Pressure Vessel (RPV) Product and Services

Table 11. Japan Steel Works Nuclear Reactor Pressure Vessel (RPV) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 12. Japan Steel Works Recent Developments/Updates

Table 13. Mitsubishi Power Basic Information, Manufacturing Base and Competitors

Table 14. Mitsubishi Power Major Business

Table 15. Mitsubishi Power Nuclear Reactor Pressure Vessel (RPV) Product and Services

Table 16. Mitsubishi Power Nuclear Reactor Pressure Vessel (RPV) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 17. Mitsubishi Power Recent Developments/Updates

Table 18. BWX Technologie Basic Information, Manufacturing Base and Competitors

Table 19. BWX Technologie Major Business

Table 20. BWX Technologie Nuclear Reactor Pressure Vessel (RPV) Product and Services

Table 21. BWX Technologie Nuclear Reactor Pressure Vessel (RPV) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 22. BWX Technologie Recent Developments/Updates

Table 23. IHI Corporation Basic Information, Manufacturing Base and Competitors

Table 24. IHI Corporation Major Business

Table 25. IHI Corporation Nuclear Reactor Pressure Vessel (RPV) Product and Services

Table 26. IHI Corporation Nuclear Reactor Pressure Vessel (RPV) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 27. IHI Corporation Recent Developments/Updates

Table 28. Dongfang Electric Basic Information, Manufacturing Base and Competitors

Table 29. Dongfang Electric Major Business

Table 30. Dongfang Electric Nuclear Reactor Pressure Vessel (RPV) Product and Services

Table 31. Dongfang Electric Nuclear Reactor Pressure Vessel (RPV) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 32. Dongfang Electric Recent Developments/Updates

Table 33. Shanghai Electric Basic Information, Manufacturing Base and Competitors

Table 34. Shanghai Electric Major Business

Table 35. Shanghai Electric Nuclear Reactor Pressure Vessel (RPV) Product and Services

Table 36. Shanghai Electric Nuclear Reactor Pressure Vessel (RPV) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 37. Shanghai Electric Recent Developments/Updates

Table 38. KEPCO Basic Information, Manufacturing Base and Competitors

Table 39. KEPCO Major Business

Table 40. KEPCO Nuclear Reactor Pressure Vessel (RPV) Product and Services

Table 41. KEPCO Nuclear Reactor Pressure Vessel (RPV) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 42. KEPCO Recent Developments/Updates

Table 43. Doosan Enerbility Basic Information, Manufacturing Base and Competitors

Table 44. Doosan Enerbility Major Business

Table 45. Doosan Enerbility Nuclear Reactor Pressure Vessel (RPV) Product and Services

Table 46. Doosan Enerbility Nuclear Reactor Pressure Vessel (RPV) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 47. Doosan Enerbility Recent Developments/Updates

Table 48. China First Heavy Industries Basic Information, Manufacturing Base and Competitors

Table 49. China First Heavy Industries Major Business

Table 50. China First Heavy Industries Nuclear Reactor Pressure Vessel (RPV) Product and Services

Table 51. China First Heavy Industries Nuclear Reactor Pressure Vessel (RPV) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 52. China First Heavy Industries Recent Developments/Updates

Table 53. Larsen & Toubro Basic Information, Manufacturing Base and Competitors

Table 54. Larsen & Toubro Major Business

Table 55. Larsen & Toubro Nuclear Reactor Pressure Vessel (RPV) Product and Services

Table 56. Larsen & Toubro Nuclear Reactor Pressure Vessel (RPV) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 57. Larsen & Toubro Recent Developments/Updates

Table 58. Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 59. Global Nuclear Reactor Pressure Vessel (RPV) Revenue by Manufacturer (2021-2026) & (USD Million)

Table 60. Global Nuclear Reactor Pressure Vessel (RPV) Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 61. Market Position of Manufacturers in Nuclear Reactor Pressure Vessel (RPV), (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 62. Head Office and Nuclear Reactor Pressure Vessel (RPV) Production Site of Key Manufacturer

Table 63. Nuclear Reactor Pressure Vessel (RPV) Market: Company Product Type Footprint

Table 64. Nuclear Reactor Pressure Vessel (RPV) Market: Company Product Application Footprint

Table 65. Nuclear Reactor Pressure Vessel (RPV) New Market Entrants and Barriers to Market Entry

Table 66. Nuclear Reactor Pressure Vessel (RPV) Mergers, Acquisition, Agreements, and Collaborations

Table 67. Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 68. Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Region (2021-2026) & (K Units)

Table 69. Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Region (2027-2032) & (K Units)

Table 70. Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Region (2021-2026) & (USD Million)

Table 71. Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Region (2027-2032) & (USD Million)

Table 72. Global Nuclear Reactor Pressure Vessel (RPV) Average Price by Region (2021-2026) & (US\$/Unit)

Table 73. Global Nuclear Reactor Pressure Vessel (RPV) Average Price by Region (2027-2032) & (US\$/Unit)

Table 74. Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2021-2026) & (K Units)

Table 75. Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2027-2032) & (K Units)

Table 76. Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Type (2021-2026) & (USD Million)

Table 77. Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Type (2027-2032) & (USD Million)

Table 78. Global Nuclear Reactor Pressure Vessel (RPV) Average Price by Type (2021-2026) & (US\$/Unit)

Table 79. Global Nuclear Reactor Pressure Vessel (RPV) Average Price by Type (2027-2032) & (US\$/Unit)

Table 80. Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2021-2026) & (K Units)

Table 81. Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2027-2032) & (K Units)

Table 82. Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Application (2021-2026) & (USD Million)

Table 83. Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Application (2027-2032) & (USD Million)

Table 84. Global Nuclear Reactor Pressure Vessel (RPV) Average Price by Application (2021-2026) & (US\$/Unit)

Table 85. Global Nuclear Reactor Pressure Vessel (RPV) Average Price by Application (2027-2032) & (US\$/Unit)

Table 86. North America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2021-2026) & (K Units)

Table 87. North America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2027-2032) & (K Units)

Table 88. North America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by

Application (2021-2026) & (K Units)

Table 89. North America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2027-2032) & (K Units)

Table 90. North America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Country (2021-2026) & (K Units)

Table 91. North America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Country (2027-2032) & (K Units)

Table 92. North America Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Country (2021-2026) & (USD Million)

Table 93. North America Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Country (2027-2032) & (USD Million)

Table 94. Europe Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2021-2026) & (K Units)

Table 95. Europe Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2027-2032) & (K Units)

Table 96. Europe Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2021-2026) & (K Units)

Table 97. Europe Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2027-2032) & (K Units)

Table 98. Europe Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Country (2021-2026) & (K Units)

Table 99. Europe Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Country (2027-2032) & (K Units)

Table 100. Europe Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Country (2021-2026) & (USD Million)

Table 101. Europe Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Country (2027-2032) & (USD Million)

Table 102. Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2021-2026) & (K Units)

Table 103. Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2027-2032) & (K Units)

Table 104. Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2021-2026) & (K Units)

Table 105. Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2027-2032) & (K Units)

Table 106. Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Region (2021-2026) & (K Units)

Table 107. Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Region (2027-2032) & (K Units)

Table 108. Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Region (2021-2026) & (USD Million)

Table 109. Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Region (2027-2032) & (USD Million)

Table 110. South America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2021-2026) & (K Units)

Table 111. South America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2027-2032) & (K Units)

Table 112. South America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2021-2026) & (K Units)

Table 113. South America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2027-2032) & (K Units)

Table 114. South America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Country (2021-2026) & (K Units)

Table 115. South America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Country (2027-2032) & (K Units)

Table 116. South America Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Country (2021-2026) & (USD Million)

Table 117. South America Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Country (2027-2032) & (USD Million)

Table 118. Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2021-2026) & (K Units)

Table 119. Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Type (2027-2032) & (K Units)

Table 120. Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2021-2026) & (K Units)

Table 121. Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Application (2027-2032) & (K Units)

Table 122. Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Country (2021-2026) & (K Units)

Table 123. Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Sales Quantity by Country (2027-2032) & (K Units)

Table 124. Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Country (2021-2026) & (USD Million)

Table 125. Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Country (2027-2032) & (USD Million)

Table 126. Nuclear Reactor Pressure Vessel (RPV) Raw Material

Table 127. Key Manufacturers of Nuclear Reactor Pressure Vessel (RPV) Raw Materials

Table 128. Nuclear Reactor Pressure Vessel (RPV) Typical Distributors

Table 129. Nuclear Reactor Pressure Vessel (RPV) Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Nuclear Reactor Pressure Vessel (RPV) Picture
- Figure 2. Global Nuclear Reactor Pressure Vessel (RPV) Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Nuclear Reactor Pressure Vessel (RPV) Revenue Market Share by Type in 2025
- Figure 4. Steel Pressure Vessel Examples
- Figure 5. Prestressed Concrete Pressure Vessel Examples
- Figure 6. Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Nuclear Reactor Pressure Vessel (RPV) Revenue Market Share by Application in 2025
- Figure 8. Boiling Water Reactors (BWR) Examples
- Figure 9. Pressurized Water Reactors (PWR) Examples
- Figure 10. Heavy Water Reactors (CANDU) Examples
- Figure 11. Gas Cooled Reactor (GCR) Examples
- Figure 12. Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 13. Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 14. Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity (2021-2032) & (K Units)
- Figure 15. Global Nuclear Reactor Pressure Vessel (RPV) Price (2021-2032) & (US\$/Unit)
- Figure 16. Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market Share by Manufacturer in 2025
- Figure 17. Global Nuclear Reactor Pressure Vessel (RPV) Revenue Market Share by Manufacturer in 2025
- Figure 18. Producer Shipments of Nuclear Reactor Pressure Vessel (RPV) by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 19. Top 3 Nuclear Reactor Pressure Vessel (RPV) Manufacturer (Revenue) Market Share in 2025
- Figure 20. Top 6 Nuclear Reactor Pressure Vessel (RPV) Manufacturer (Revenue) Market Share in 2025
- Figure 21. Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market Share by Region (2021-2032)

Figure 22. Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value Market Share by Region (2021-2032)

Figure 23. North America Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032) & (USD Million)

Figure 24. Europe Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032) & (USD Million)

Figure 25. Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032) & (USD Million)

Figure 26. South America Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032) & (USD Million)

Figure 27. Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032) & (USD Million)

Figure 28. Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market Share by Type (2021-2032)

Figure 29. Global Nuclear Reactor Pressure Vessel (RPV) Consumption Value Market Share by Type (2021-2032)

Figure 30. Global Nuclear Reactor Pressure Vessel (RPV) Average Price by Type (2021-2032) & (US\$/Unit)

Figure 31. Global Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market Share by Application (2021-2032)

Figure 32. Global Nuclear Reactor Pressure Vessel (RPV) Revenue Market Share by Application (2021-2032)

Figure 33. Global Nuclear Reactor Pressure Vessel (RPV) Average Price by Application (2021-2032) & (US\$/Unit)

Figure 34. North America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market Share by Type (2021-2032)

Figure 35. North America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market Share by Application (2021-2032)

Figure 36. North America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market Share by Country (2021-2032)

Figure 37. North America Nuclear Reactor Pressure Vessel (RPV) Consumption Value Market Share by Country (2021-2032)

Figure 38. United States Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032) & (USD Million)

Figure 39. Canada Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032) & (USD Million)

Figure 40. Mexico Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032) & (USD Million)

Figure 41. Europe Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market

Share by Type (2021-2032)

Figure 42. Europe Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market

Share by Application (2021-2032)

Figure 43. Europe Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market

Share by Country (2021-2032)

Figure 44. Europe Nuclear Reactor Pressure Vessel (RPV) Consumption Value Market

Share by Country (2021-2032)

Figure 45. Germany Nuclear Reactor Pressure Vessel (RPV) Consumption Value
(2021-2032) & (USD Million)

Figure 46. France Nuclear Reactor Pressure Vessel (RPV) Consumption Value
(2021-2032) & (USD Million)

Figure 47. United Kingdom Nuclear Reactor Pressure Vessel (RPV) Consumption Value
(2021-2032) & (USD Million)

Figure 48. Russia Nuclear Reactor Pressure Vessel (RPV) Consumption Value
(2021-2032) & (USD Million)

Figure 49. Italy Nuclear Reactor Pressure Vessel (RPV) Consumption Value
(2021-2032) & (USD Million)

Figure 50. Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market
Share by Type (2021-2032)

Figure 51. Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market
Share by Application (2021-2032)

Figure 52. Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market
Share by Region (2021-2032)

Figure 53. Asia-Pacific Nuclear Reactor Pressure Vessel (RPV) Consumption Value
Market Share by Region (2021-2032)

Figure 54. China Nuclear Reactor Pressure Vessel (RPV) Consumption Value
(2021-2032) & (USD Million)

Figure 55. Japan Nuclear Reactor Pressure Vessel (RPV) Consumption Value
(2021-2032) & (USD Million)

Figure 56. South Korea Nuclear Reactor Pressure Vessel (RPV) Consumption Value
(2021-2032) & (USD Million)

Figure 57. India Nuclear Reactor Pressure Vessel (RPV) Consumption Value
(2021-2032) & (USD Million)

Figure 58. Southeast Asia Nuclear Reactor Pressure Vessel (RPV) Consumption Value
(2021-2032) & (USD Million)

Figure 59. Australia Nuclear Reactor Pressure Vessel (RPV) Consumption Value
(2021-2032) & (USD Million)

Figure 60. South America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity
Market Share by Type (2021-2032)

Figure 61. South America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market Share by Application (2021-2032)

Figure 62. South America Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market Share by Country (2021-2032)

Figure 63. South America Nuclear Reactor Pressure Vessel (RPV) Consumption Value Market Share by Country (2021-2032)

Figure 64. Brazil Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032) & (USD Million)

Figure 65. Argentina Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032) & (USD Million)

Figure 66. Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market Share by Type (2021-2032)

Figure 67. Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market Share by Application (2021-2032)

Figure 68. Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Sales Quantity Market Share by Country (2021-2032)

Figure 69. Middle East & Africa Nuclear Reactor Pressure Vessel (RPV) Consumption Value Market Share by Country (2021-2032)

Figure 70. Turkey Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032) & (USD Million)

Figure 71. Egypt Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032) & (USD Million)

Figure 72. Saudi Arabia Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032) & (USD Million)

Figure 73. South Africa Nuclear Reactor Pressure Vessel (RPV) Consumption Value (2021-2032) & (USD Million)

Figure 74. Nuclear Reactor Pressure Vessel (RPV) Market Drivers

Figure 75. Nuclear Reactor Pressure Vessel (RPV) Market Restraints

Figure 76. Nuclear Reactor Pressure Vessel (RPV) Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of Nuclear Reactor Pressure Vessel (RPV) in 2025

Figure 79. Manufacturing Process Analysis of Nuclear Reactor Pressure Vessel (RPV)

Figure 80. Nuclear Reactor Pressure Vessel (RPV) Industrial Chain

Figure 81. Sales Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

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