

Global Nuclear Power Digital Control System Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Nuclear Power Digital Control System competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. In 2024, global Nuclear Power Digital Control System production reached approximately 1,224 units, with an average global market price of around US\$3.4 million per unit. In 2024, the global 's total production capacity of Nuclear Power Digital Control System reached 1,530 units. The industry average gross profit margin of this product reached 36%. The nuclear power digital control system is a distributed control system based on computers and network communication. It connects field control stations, operator stations, and engineer stations located near the industrial site through a communication network, enabling decentralized control and centralized operation management of hundreds of systems and nearly ten thousand pieces of equipment within the nuclear power plant. This system, often referred to as the "nerve center" of the nuclear power plant, consists of both safety-grade and non-safety-grade systems: the safety-grade systems act as the "guardians" of the nuclear power plant, responsible for reactor safety control under various operating conditions; the non-safety-grade systems, acting as the "super brain," are responsible for automatic monitoring of the unit's operating status and ensuring efficient and economical operation. This system ensures the safe, reliable, stable, and economical operation of the nuclear power plant through digital and intelligent technologies, and is one of the major critical complete sets of equipment in a nuclear power plant. The nuclear power digital control system industry chain covers upstream core hardware and software supply, midstream system integration and solution provision, and downstream nuclear power plant construction and full life-cycle services. The upstream sector primarily includes key components such as sensors, controllers, and actuators; the midstream sector, mainly composed of

domestic enterprises and international manufacturers, provides products such as control systems, monitoring and diagnostic systems, and information management platforms; the downstream sector is applied throughout the entire process of nuclear power plant design, construction, operation, maintenance, and decommissioning, and extends to operation and maintenance services, data analysis, and intelligent decision-making through industrial internet platforms. Currently, the industry chain is relying on a "platform + ecosystem" strategy to promote domestic substitution and cross-domain collaboration, forming a closed loop from technology research and development to industrial application. The prospects for nuclear power digital control systems are broad, and they will accelerate their evolution towards intelligence, domestic production, and ecological sustainability in the future. On the one hand, the deep application of AI, digital twins, and large-scale model technologies is driving the system to achieve a closed loop of "perception-analysis-decision-execution," helping nuclear power plants transform towards "less manned, proactive operation and maintenance"; on the other hand, independent controllability has become a core trend, with domestic platforms achieving 100% domestic production and large-scale application, significantly reducing costs and dependence on foreign countries. Driven by policy and market demand, new scenarios such as small modular reactor (SMR) power supply data centers and full lifecycle services are constantly emerging. It is expected that by 2030, the industry will build a complete standard system and technology ecosystem, injecting new momentum into the safe, efficient and clean development of global nuclear power.

The global Nuclear Power Digital Control System market size was estimated at USD 4162.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Nuclear Power Digital Control System market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Nuclear Power Digital Control System market. It offers detailed profiles of major players,

including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Nuclear Power Digital Control System market.

Global Nuclear Power Digital Control System Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

L3Harris
GE Vernova Hitachi
Curtiss-Wright
Framatome
GE Vernova
Westinghouse Electric Company
AREVA
Mitsubishi
CNNC Control
CGN Group
Guoneng Zhishen
Holysys

Market Segmentation (by Type)

Safety Level
Non-Safety Level

Market Segmentation (by Application)

Nuclear Island
Regular Island
Power Station Auxiliary Facilities

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Nuclear Power Digital Control System Market
Overview of the regional outlook of the Nuclear Power Digital Control System Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division

standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Nuclear Power Digital Control System Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Nuclear Power Digital Control System, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Nuclear Power Digital Control System
- 1.2 Key Market Segments
 - 1.2.1 Nuclear Power Digital Control System Segment by Type
 - 1.2.2 Nuclear Power Digital Control System Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 NUCLEAR POWER DIGITAL CONTROL SYSTEM MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Nuclear Power Digital Control System Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Nuclear Power Digital Control System Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 NUCLEAR POWER DIGITAL CONTROL SYSTEM MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Nuclear Power Digital Control System Product Life Cycle
- 3.3 Global Nuclear Power Digital Control System Sales by Manufacturers (2020-2025)
- 3.4 Global Nuclear Power Digital Control System Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Nuclear Power Digital Control System Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Nuclear Power Digital Control System Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Nuclear Power Digital Control System Market Competitive Situation and Trends

- 3.8.1 Nuclear Power Digital Control System Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest Nuclear Power Digital Control System Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

4 NUCLEAR POWER DIGITAL CONTROL SYSTEM INDUSTRY CHAIN ANALYSIS

- 4.1 Nuclear Power Digital Control System Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF NUCLEAR POWER DIGITAL CONTROL SYSTEM MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Nuclear Power Digital Control System Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Nuclear Power Digital Control System Market
- 5.7 ESG Ratings of Leading Companies

6 NUCLEAR POWER DIGITAL CONTROL SYSTEM MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Nuclear Power Digital Control System Sales Market Share by Type (2020-2025)

6.3 Global Nuclear Power Digital Control System Market Size by Type (2020-2025)

6.4 Global Nuclear Power Digital Control System Price by Type (2020-2025)

7 NUCLEAR POWER DIGITAL CONTROL SYSTEM MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Nuclear Power Digital Control System Market Sales by Application (2020-2025)

7.3 Global Nuclear Power Digital Control System Market Size (M USD) by Application (2020-2025)

7.4 Global Nuclear Power Digital Control System Sales Growth Rate by Application (2020-2025)

8 NUCLEAR POWER DIGITAL CONTROL SYSTEM MARKET SALES BY REGION

8.1 Global Nuclear Power Digital Control System Sales by Region

8.1.1 Global Nuclear Power Digital Control System Sales by Region

8.1.2 Global Nuclear Power Digital Control System Sales Market Share by Region

8.2 Global Nuclear Power Digital Control System Market Size by Region

8.2.1 Global Nuclear Power Digital Control System Market Size by Region

8.2.2 Global Nuclear Power Digital Control System Market Size by Region

8.3 North America

8.3.1 North America Nuclear Power Digital Control System Sales by Country

8.3.2 North America Nuclear Power Digital Control System Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Nuclear Power Digital Control System Sales by Country

8.4.2 Europe Nuclear Power Digital Control System Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

- 8.5.1 Asia Pacific Nuclear Power Digital Control System Sales by Region
- 8.5.2 Asia Pacific Nuclear Power Digital Control System Market Size by Region
- 8.5.3 China Market Overview
- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Nuclear Power Digital Control System Sales by Country
 - 8.6.2 South America Nuclear Power Digital Control System Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Nuclear Power Digital Control System Sales by Region
 - 8.7.2 Middle East and Africa Nuclear Power Digital Control System Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 NUCLEAR POWER DIGITAL CONTROL SYSTEM MARKET PRODUCTION BY REGION

- 9.1 Global Production of Nuclear Power Digital Control System by Region(2020-2025)
- 9.2 Global Nuclear Power Digital Control System Revenue Market Share by Region (2020-2025)
- 9.3 Global Nuclear Power Digital Control System Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Nuclear Power Digital Control System Production
 - 9.4.1 North America Nuclear Power Digital Control System Production Growth Rate (2020-2025)
 - 9.4.2 North America Nuclear Power Digital Control System Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Nuclear Power Digital Control System Production
 - 9.5.1 Europe Nuclear Power Digital Control System Production Growth Rate (2020-2025)

9.5.2 Europe Nuclear Power Digital Control System Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Nuclear Power Digital Control System Production (2020-2025)

9.6.1 Japan Nuclear Power Digital Control System Production Growth Rate (2020-2025)

9.6.2 Japan Nuclear Power Digital Control System Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Nuclear Power Digital Control System Production (2020-2025)

9.7.1 China Nuclear Power Digital Control System Production Growth Rate (2020-2025)

9.7.2 China Nuclear Power Digital Control System Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 L3Harris

10.1.1 L3Harris Basic Information

10.1.2 L3Harris Nuclear Power Digital Control System Product Overview

10.1.3 L3Harris Nuclear Power Digital Control System Product Market Performance

10.1.4 L3Harris Business Overview

10.1.5 L3Harris SWOT Analysis

10.1.6 L3Harris Recent Developments

10.2 GE Vernova Hitachi

10.2.1 GE Vernova Hitachi Basic Information

10.2.2 GE Vernova Hitachi Nuclear Power Digital Control System Product Overview

10.2.3 GE Vernova Hitachi Nuclear Power Digital Control System Product Market Performance

10.2.4 GE Vernova Hitachi Business Overview

10.2.5 GE Vernova Hitachi SWOT Analysis

10.2.6 GE Vernova Hitachi Recent Developments

10.3 Curtiss-Wright

10.3.1 Curtiss-Wright Basic Information

10.3.2 Curtiss-Wright Nuclear Power Digital Control System Product Overview

10.3.3 Curtiss-Wright Nuclear Power Digital Control System Product Market Performance

10.3.4 Curtiss-Wright Business Overview

10.3.5 Curtiss-Wright SWOT Analysis

10.3.6 Curtiss-Wright Recent Developments

10.4 Framatome

- 10.4.1 Framatome Basic Information
- 10.4.2 Framatome Nuclear Power Digital Control System Product Overview
- 10.4.3 Framatome Nuclear Power Digital Control System Product Market Performance
- 10.4.4 Framatome Business Overview
- 10.4.5 Framatome Recent Developments
- 10.5 GE Vernova
 - 10.5.1 GE Vernova Basic Information
 - 10.5.2 GE Vernova Nuclear Power Digital Control System Product Overview
 - 10.5.3 GE Vernova Nuclear Power Digital Control System Product Market Performance
 - 10.5.4 GE Vernova Business Overview
 - 10.5.5 GE Vernova Recent Developments
- 10.6 Westinghouse Electric Company
 - 10.6.1 Westinghouse Electric Company Basic Information
 - 10.6.2 Westinghouse Electric Company Nuclear Power Digital Control System Product Overview
 - 10.6.3 Westinghouse Electric Company Nuclear Power Digital Control System Product Market Performance
 - 10.6.4 Westinghouse Electric Company Business Overview
 - 10.6.5 Westinghouse Electric Company Recent Developments
- 10.7 AREVA
 - 10.7.1 AREVA Basic Information
 - 10.7.2 AREVA Nuclear Power Digital Control System Product Overview
 - 10.7.3 AREVA Nuclear Power Digital Control System Product Market Performance
 - 10.7.4 AREVA Business Overview
 - 10.7.5 AREVA Recent Developments
- 10.8 Mitsubishi
 - 10.8.1 Mitsubishi Basic Information
 - 10.8.2 Mitsubishi Nuclear Power Digital Control System Product Overview
 - 10.8.3 Mitsubishi Nuclear Power Digital Control System Product Market Performance
 - 10.8.4 Mitsubishi Business Overview
 - 10.8.5 Mitsubishi Recent Developments
- 10.9 CNNC Control
 - 10.9.1 CNNC Control Basic Information
 - 10.9.2 CNNC Control Nuclear Power Digital Control System Product Overview
 - 10.9.3 CNNC Control Nuclear Power Digital Control System Product Market Performance
 - 10.9.4 CNNC Control Business Overview
 - 10.9.5 CNNC Control Recent Developments

10.10 CGN Group

10.10.1 CGN Group Basic Information

10.10.2 CGN Group Nuclear Power Digital Control System Product Overview

10.10.3 CGN Group Nuclear Power Digital Control System Product Market

Performance

10.10.4 CGN Group Business Overview

10.10.5 CGN Group Recent Developments

10.11 Guoneng Zhishen

10.11.1 Guoneng Zhishen Basic Information

10.11.2 Guoneng Zhishen Nuclear Power Digital Control System Product Overview

10.11.3 Guoneng Zhishen Nuclear Power Digital Control System Product Market

Performance

10.11.4 Guoneng Zhishen Business Overview

10.11.5 Guoneng Zhishen Recent Developments

10.12 Holysys

10.12.1 Holysys Basic Information

10.12.2 Holysys Nuclear Power Digital Control System Product Overview

10.12.3 Holysys Nuclear Power Digital Control System Product Market Performance

10.12.4 Holysys Business Overview

10.12.5 Holysys Recent Developments

11 NUCLEAR POWER DIGITAL CONTROL SYSTEM MARKET FORECAST BY REGION

11.1 Global Nuclear Power Digital Control System Market Size Forecast

11.2 Global Nuclear Power Digital Control System Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Nuclear Power Digital Control System Market Size Forecast by Country

11.2.3 Asia Pacific Nuclear Power Digital Control System Market Size Forecast by

Region

11.2.4 South America Nuclear Power Digital Control System Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Nuclear Power Digital Control System by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Nuclear Power Digital Control System Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Nuclear Power Digital Control System by Type (2026-2035)

12.1.2 Global Nuclear Power Digital Control System Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Nuclear Power Digital Control System by Type (2026-2035)

12.2 Global Nuclear Power Digital Control System Market Forecast by Application (2026-2035)

12.2.1 Global Nuclear Power Digital Control System Sales (K Units) Forecast by Application

12.2.2 Global Nuclear Power Digital Control System Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Nuclear Power Digital Control System Market Size by Type (M USD)

Table 4. Global Nuclear Power Digital Control System Market Size by Application

Table 5. Nuclear Power Digital Control System Market Size Comparison by Region (M USD)

Table 6. Global Nuclear Power Digital Control System Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Nuclear Power Digital Control System Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Nuclear Power Digital Control System Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Nuclear Power Digital Control System Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Nuclear Power Digital Control System as of 2025)

Table 11. Global Market Nuclear Power Digital Control System Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Nuclear Power Digital Control System Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Nuclear Power Digital Control System Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Nuclear Power Digital Control System Sales by Type (K Units)

Table 27. Global Nuclear Power Digital Control System Market Size by Type (M USD)

Table 28. Global Nuclear Power Digital Control System Sales (K Units) by Type (2020-2025)

Table 29. Global Nuclear Power Digital Control System Sales Market Share by Type (2020-2025)

Table 30. Global Nuclear Power Digital Control System Market Size (M USD) by Type (2020-2025)

Table 31. Global Nuclear Power Digital Control System Market Share by Type (2020-2025)

Table 32. Global Nuclear Power Digital Control System Price (USD/Unit) by Type (2020-2025)

Table 33. Global Nuclear Power Digital Control System Sales (K Units) by Application

Table 34. Global Nuclear Power Digital Control System Market Size by Application

Table 35. Global Nuclear Power Digital Control System Sales by Application (2020-2025) & (K Units)

Table 36. Global Nuclear Power Digital Control System Sales Market Share by Application (2020-2025)

Table 37. Global Nuclear Power Digital Control System Market Size by Application (2020-2025) & (M USD)

Table 38. Global Nuclear Power Digital Control System Market Share by Application (2020-2025)

Table 39. Global Nuclear Power Digital Control System Sales Growth Rate by Application (2020-2025)

Table 40. Global Nuclear Power Digital Control System Sales by Region (2020-2025) & (K Units)

Table 41. Global Nuclear Power Digital Control System Sales Market Share by Region (2020-2025)

Table 42. Global Nuclear Power Digital Control System Market Size by Region (2020-2025) & (M USD)

Table 43. Global Nuclear Power Digital Control System Market Size by Region (2020-2025)

Table 44. North America Nuclear Power Digital Control System Sales by Country (2020-2025) & (K Units)

Table 45. North America Nuclear Power Digital Control System Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Nuclear Power Digital Control System Sales by Country (2020-2025) & (K Units)

Table 47. Europe Nuclear Power Digital Control System Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Nuclear Power Digital Control System Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Nuclear Power Digital Control System Market Size by Region (2020-2025) & (M USD)

Table 50. South America Nuclear Power Digital Control System Sales by Country (2020-2025) & (K Units)

Table 51. South America Nuclear Power Digital Control System Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Nuclear Power Digital Control System Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Nuclear Power Digital Control System Market Size by Region (2020-2025) & (M USD)

Table 54. Global Nuclear Power Digital Control System Production (K Units) by Region(2020-2025)

Table 55. Global Nuclear Power Digital Control System Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Nuclear Power Digital Control System Revenue Market Share by Region (2020-2025)

Table 57. Global Nuclear Power Digital Control System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Nuclear Power Digital Control System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Nuclear Power Digital Control System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Nuclear Power Digital Control System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Nuclear Power Digital Control System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. L3Harris Basic Information

Table 63. L3Harris Nuclear Power Digital Control System Product Overview

Table 64. L3Harris Nuclear Power Digital Control System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. L3Harris Business Overview

Table 66. L3Harris SWOT Analysis

Table 67. L3Harris Recent Developments

Table 68. GE Vernova Hitachi Basic Information

Table 69. GE Vernova Hitachi Nuclear Power Digital Control System Product Overview

Table 70. GE Vernova Hitachi Nuclear Power Digital Control System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 71. GE Vernova Hitachi Business Overview
- Table 72. GE Vernova Hitachi SWOT Analysis
- Table 73. GE Vernova Hitachi Recent Developments
- Table 74. Curtiss-Wright Basic Information
- Table 75. Curtiss-Wright Nuclear Power Digital Control System Product Overview
- Table 76. Curtiss-Wright Nuclear Power Digital Control System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. Curtiss-Wright Business Overview
- Table 78. Curtiss-Wright SWOT Analysis
- Table 79. Curtiss-Wright Recent Developments
- Table 80. Framatome Basic Information
- Table 81. Framatome Nuclear Power Digital Control System Product Overview
- Table 82. Framatome Nuclear Power Digital Control System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Framatome Business Overview
- Table 84. Framatome Recent Developments
- Table 85. GE Vernova Basic Information
- Table 86. GE Vernova Nuclear Power Digital Control System Product Overview
- Table 87. GE Vernova Nuclear Power Digital Control System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. GE Vernova Business Overview
- Table 89. GE Vernova Recent Developments
- Table 90. Westinghouse Electric Company Basic Information
- Table 91. Westinghouse Electric Company Nuclear Power Digital Control System Product Overview
- Table 92. Westinghouse Electric Company Nuclear Power Digital Control System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Westinghouse Electric Company Business Overview
- Table 94. Westinghouse Electric Company Recent Developments
- Table 95. AREVA Basic Information
- Table 96. AREVA Nuclear Power Digital Control System Product Overview
- Table 97. AREVA Nuclear Power Digital Control System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. AREVA Business Overview
- Table 99. AREVA Recent Developments
- Table 100. Mitsubishi Basic Information
- Table 101. Mitsubishi Nuclear Power Digital Control System Product Overview
- Table 102. Mitsubishi Nuclear Power Digital Control System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 103. Mitsubishi Business Overview
- Table 104. Mitsubishi Recent Developments
- Table 105. CNNC Control Basic Information
- Table 106. CNNC Control Nuclear Power Digital Control System Product Overview
- Table 107. CNNC Control Nuclear Power Digital Control System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. CNNC Control Business Overview
- Table 109. CNNC Control Recent Developments
- Table 110. CGN Group Basic Information
- Table 111. CGN Group Nuclear Power Digital Control System Product Overview
- Table 112. CGN Group Nuclear Power Digital Control System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. CGN Group Business Overview
- Table 114. CGN Group Recent Developments
- Table 115. Guoneng Zhishen Basic Information
- Table 116. Guoneng Zhishen Nuclear Power Digital Control System Product Overview
- Table 117. Guoneng Zhishen Nuclear Power Digital Control System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Guoneng Zhishen Business Overview
- Table 119. Guoneng Zhishen Recent Developments
- Table 120. Holysys Basic Information
- Table 121. Holysys Nuclear Power Digital Control System Product Overview
- Table 122. Holysys Nuclear Power Digital Control System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. Holysys Business Overview
- Table 124. Holysys Recent Developments
- Table 125. Global Nuclear Power Digital Control System Sales Forecast by Region (2026-2035) & (K Units)
- Table 126. Global Nuclear Power Digital Control System Market Size Forecast by Region (2026-2035) & (M USD)
- Table 127. North America Nuclear Power Digital Control System Sales Forecast by Country (2026-2035) & (K Units)
- Table 128. North America Nuclear Power Digital Control System Market Size Forecast by Country (2026-2035) & (M USD)
- Table 129. Europe Nuclear Power Digital Control System Sales Forecast by Country (2026-2035) & (K Units)
- Table 130. Europe Nuclear Power Digital Control System Market Size Forecast by Country (2026-2035) & (M USD)
- Table 131. Asia Pacific Nuclear Power Digital Control System Sales Forecast by Region

(2026-2035) & (K Units)

Table 132. Asia Pacific Nuclear Power Digital Control System Market Size Forecast by Region (2026-2035) & (M USD)

Table 133. South America Nuclear Power Digital Control System Sales Forecast by Country (2026-2035) & (K Units)

Table 134. South America Nuclear Power Digital Control System Market Size Forecast by Country (2026-2035) & (M USD)

Table 135. Middle East and Africa Nuclear Power Digital Control System Sales Forecast by Country (2026-2035) & (Units)

Table 136. Middle East and Africa Nuclear Power Digital Control System Market Size Forecast by Country (2026-2035) & (M USD)

Table 137. Global Nuclear Power Digital Control System Sales Forecast by Type (2026-2035) & (K Units)

Table 138. Global Nuclear Power Digital Control System Market Size Forecast by Type (2026-2035) & (M USD)

Table 139. Global Nuclear Power Digital Control System Price Forecast by Type (2026-2035) & (USD/Unit)

Table 140. Global Nuclear Power Digital Control System Sales (K Units) Forecast by Application (2026-2035)

Table 141. Global Nuclear Power Digital Control System Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Nuclear Power Digital Control System
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Nuclear Power Digital Control System Market Size (M USD), 2025-2035
- Figure 5. Global Nuclear Power Digital Control System Market Size (M USD) (2020-2035)
- Figure 6. Global Nuclear Power Digital Control System Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Nuclear Power Digital Control System Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Nuclear Power Digital Control System Product Life Cycle
- Figure 13. Nuclear Power Digital Control System Sales Share by Manufacturers in 2025
- Figure 14. Global Nuclear Power Digital Control System Revenue Share by Manufacturers in 2025
- Figure 15. Nuclear Power Digital Control System Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Nuclear Power Digital Control System Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Nuclear Power Digital Control System Revenue in 2025
- Figure 18. Industry Chain Map of Nuclear Power Digital Control System
- Figure 19. Global Nuclear Power Digital Control System Market PEST Analysis
- Figure 20. Global Nuclear Power Digital Control System Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Nuclear Power Digital Control System Market Share by Type
- Figure 27. Sales Market Share of Nuclear Power Digital Control System by Type (2020-2025)

Figure 28. Sales Market Share of Nuclear Power Digital Control System by Type in 2025

Figure 29. Market Share of Nuclear Power Digital Control System by Type (2020-2025)

Figure 30. Market Share of Nuclear Power Digital Control System by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Nuclear Power Digital Control System Market Share by Application

Figure 33. Global Nuclear Power Digital Control System Sales Market Share by Application (2020-2025)

Figure 34. Global Nuclear Power Digital Control System Sales Market Share by Application in 2025

Figure 35. Global Nuclear Power Digital Control System Market Share by Application (2020-2025)

Figure 36. Global Nuclear Power Digital Control System Market Share by Application in 2025

Figure 37. Global Nuclear Power Digital Control System Sales Growth Rate by Application (2020-2025)

Figure 38. Global Nuclear Power Digital Control System Sales Market Share by Region (2020-2025)

Figure 39. Global Nuclear Power Digital Control System Market Size by Region (2020-2025)

Figure 40. North America Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Nuclear Power Digital Control System Sales Market Share by Country in 2024

Figure 43. North America Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Nuclear Power Digital Control System Market Size by Country in 2024

Figure 45. U.S. Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Nuclear Power Digital Control System Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Nuclear Power Digital Control System Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Nuclear Power Digital Control System Sales (Units) and Growth Rate

(2020-2025)

Figure 50. Mexico Nuclear Power Digital Control System Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Nuclear Power Digital Control System Sales Market Share by Country in 2024

Figure 53. Europe Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Nuclear Power Digital Control System Market Size by Country in 2024

Figure 55. Germany Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Nuclear Power Digital Control System Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Nuclear Power Digital Control System Sales Market Share by Region in 2024

Figure 67. Asia Pacific Nuclear Power Digital Control System Market Size by Region in 2024

Figure 68. China Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Nuclear Power Digital Control System Sales and Growth Rate (K Units)

Figure 79. South America Nuclear Power Digital Control System Sales Market Share by Country in 2024

Figure 80. South America Nuclear Power Digital Control System Market Size and Growth Rate (M USD)

Figure 81. South America Nuclear Power Digital Control System Market Size by Country in 2024

Figure 82. Brazil Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Nuclear Power Digital Control System Sales and

Growth Rate (K Units)

Figure 89. Middle East and Africa Nuclear Power Digital Control System Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Nuclear Power Digital Control System Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Nuclear Power Digital Control System Market Size by Region in 2024

Figure 92. Saudi Arabia Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Nuclear Power Digital Control System Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Nuclear Power Digital Control System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Nuclear Power Digital Control System Production Market Share by Region (2020-2025)

Figure 103. North America Nuclear Power Digital Control System Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Nuclear Power Digital Control System Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Nuclear Power Digital Control System Production (K Units) Growth Rate (2020-2025)

Figure 106. China Nuclear Power Digital Control System Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Nuclear Power Digital Control System Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Nuclear Power Digital Control System Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Nuclear Power Digital Control System Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Nuclear Power Digital Control System Market Share Forecast by Type (2026-2035)

Figure 111. Global Nuclear Power Digital Control System Sales Forecast by Application (2026-2035)

Figure 112. Global Nuclear Power Digital Control System Market Share Forecast by Application (2026-2035)

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