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Global Nuclear Steam Generator Pipes 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 Steam Generator Pipes market size was valued at US$ 352 million in 2025 and is forecast to a readjusted size of US$ 505 million by 2032 with a CAGR of 5.3% during review period.

In 2025, global sales of Nuclear Steam Generator Pipes reached 18,500 metric tons, with an average selling price of $18,500 per ton. Total global production capacity stood at approximately 22,000 tons, and the industry's overall gross profit margin was around 38%. These tubes are core heat-exchange components located on the primary side of steam generators in pressurized water reactor (PWR) nuclear power plants; typically manufactured from high-performance nickel-based alloys (such as Inconel 600, 690, or 718) or high-purity austenitic stainless steel, they are produced using advanced processes?including precision cold working, solution heat treatment, and non-destructive testing. They exhibit exceptional resistance to high temperatures and pressures, stress corrosion cracking, and intergranular corrosion, alongside long-term radiation stability. Their primary function is to facilitate efficient heat exchange between the highly radioactive primary-loop coolant and the secondary-loop water while ensuring complete isolation of the two media, making them a critical material within the nuclear power plant's safety barrier system. Upstream raw materials primarily include nickel-based alloy base stock, high-purity iron-nickel-chromium alloying elements, and refining additives; the midstream sector involves vacuum melting, piercing and rolling, precision cold-drawing, multi-stage heat treatment, and eddy-current testing; and downstream supply chains encompass nuclear equipment manufacturers, steam generator integrators, and national nuclear power engineering systems. Future development will focus on upgrading to highly corrosion-resistant nickel-based alloys, developing long-life radiation-resistant material systems, and producing specialized tubing for Small Modular

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Reactors (SMRs). Demand growth is driven by global nuclear power expansion, the replacement of aging steam generators, and the advancement of nuclear technologies, with business opportunities concentrated in the domestic substitution of high-end nuclear-grade nickel-based alloys and the upgrading of critical materials for next-generation nuclear islands.

This report is a detailed and comprehensive analysis for global Nuclear Steam Generator Pipes 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 Steam Generator Pipes market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Nuclear Steam Generator Pipes market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Nuclear Steam Generator Pipes market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Nuclear Steam Generator Pipes market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/Ton), 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 Steam Generator Pipes

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Nuclear Steam Generator Pipes 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 Alleima, Framatome, Nippon Steel, NEOTISS, BAOYIN, JIULI, BWX Technologies, etc.

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

Market Segmentation

Nuclear Steam Generator Pipes 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

U-tube Heat Exchanger Tube

Straight Heat Exchanger Tube

Helical Tube

Market segment by Preparation process

Cold-drawn Precision Seamless Pipe

Hot-extruded and Cold-worked Composite Pipe

Market segment by Operating Conditions

Operating Conditions: 200?300?C

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Operating Conditions: 300?C+

Market segment by Application

Pressurized Water Reactor

Boiling Water Reactor

Major players covered

Alleima

Framatome

Nippon Steel

NEOTISS

BAOYIN

JIULI

BWX Technologies

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)

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

Chapter 1, to describe Nuclear Steam Generator Pipes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nuclear Steam Generator Pipes, with price, sales quantity, revenue, and global market share of Nuclear Steam Generator Pipes from 2021 to 2026.

Chapter 3, the Nuclear Steam Generator Pipes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nuclear Steam Generator Pipes 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 Steam Generator Pipes 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 Steam Generator Pipes.

Chapter 14 and 15, to describe Nuclear Steam Generator Pipes sales channel, distributors, customers, research findings and conclusion.

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