

# Global AI in Nuclear Power Plant Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global AI in Nuclear Power Plant market size was valued at US\$ 603 million in 2025 and is forecast to a readjusted size of US\$ 1336 million by 2032 with a CAGR of 12.1% during review period.

AI in Nuclear Power Plant refers to an intelligent technology system that deeply integrates machine learning, computer vision, expert systems, and other technologies to empower the entire lifecycle of a nuclear power plant. Its core value lies in using massive amounts of sensor data to predict equipment failures and diagnose conditions, utilizing robots to replace manual labor in high-radiation areas for inspections and maintenance, and assisting operators in making precise decisions and handling transient situations. This technology aims to significantly improve the safety, economy, and operational efficiency of nuclear power plants, and is a crucial support for driving the development of nuclear power towards greater intelligence and reliability.

The global AI in Nuclear Power Plant market is currently in a rapid development phase, transitioning from pilot validation to large-scale application. North America, Europe, and China are the main technology leaders, focusing on scenarios such as predictive maintenance of equipment, visual intelligent inspection, and optimization of personnel radiation dose. With the increasing demand for life extension of existing units and the growing need for digitalization of new units, the market is evolving from single algorithm models to integrated solutions combining 'AI + digital twins'.

This report is a detailed and comprehensive analysis for global AI in Nuclear Power Plant market. Both quantitative and qualitative analyses are presented by company, 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 AI in Nuclear Power Plant market size and forecasts, in consumption value (\$ Million), 2021-2032

Global AI in Nuclear Power Plant market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global AI in Nuclear Power Plant market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global AI in Nuclear Power Plant market shares of main players, in revenue (\$ Million), 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 AI in Nuclear Power Plant

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 AI in Nuclear Power Plant market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nuclearn, Westinghouse Nuclear, Pacific Gas & Electric Company, X-energy, ABB, BWX Technologies, Framatome, Hitachi Global, NuScale Power Corporation, Siemens, etc.

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

### **Market segmentation**

AI in Nuclear Power Plant 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. This analysis can help you expand

your business by targeting qualified niche markets.

#### Market segment by Type

Perception and Cognition AI

Prediction and Diagnosis AI

Decision-Making and Optimization AI

Task Execution AI

Other

#### Market segment by Deployment

Edge AI

Platform AI

#### Market segment by Application

Design and Construction

Operation and Maintenance

Decommissioning

Others

#### Market segment by players, this report covers

Nuclear

Westinghouse Nuclear

Pacific Gas & Electric Company

X-energy

ABB

BWX Technologies

Framatome

Hitachi Global

NuScale Power Corporation

Siemens

NANO Nuclear Energy Inc

Blue Wave AI Labs

Foro Nuclear

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

Chapter 1, to describe AI in Nuclear Power Plant product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of AI in Nuclear Power Plant, with revenue, gross margin, and global market share of AI in Nuclear Power Plant from 2021 to 2026.

Chapter 3, the AI in Nuclear Power Plant competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and AI in Nuclear Power Plant market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of AI in Nuclear Power Plant.

Chapter 13, to describe AI in Nuclear Power Plant research findings and conclusion.

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