

Global AI in Nuclear Power Plant Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G3F67495DF87EN.html>

Date: April 2026

Pages: 130

Price: US\$ 4,480.00 (Single User License)

ID: G3F67495DF87EN

Abstracts

The global AI in Nuclear Power Plant market size is expected to reach \$ 1336 million by 2032, rising at a market growth of 12.1% CAGR during the forecast period (2026-2032).

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 studies the global AI in Nuclear Power Plant demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI in Nuclear Power Plant, and provides market size (US\$ million) and Year-over-Year (YoY)

growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AI in Nuclear Power Plant that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI in Nuclear Power Plant total market, 2021-2032, (USD Million)

Global AI in Nuclear Power Plant total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: AI in Nuclear Power Plant total market, key domestic companies, and share, (USD Million)

Global AI in Nuclear Power Plant revenue by player, revenue and market share 2021-2026, (USD Million)

Global AI in Nuclear Power Plant total market by Type, CAGR, 2021-2032, (USD Million)

Global AI in Nuclear Power Plant total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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 NuScale, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world AI in Nuclear Power Plant market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AI in Nuclear Power Plant Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI in Nuclear Power Plant Market, Segmentation by Type:

Perception and Cognition AI

Prediction and Diagnosis AI

Decision-Making and Optimization AI

Task Execution AI

Other

Global AI in Nuclear Power Plant Market, Segmentation by Deployment:

Edge AI

Platform AI

Global AI in Nuclear Power Plant Market, Segmentation by Application:

Design and Construction

Operation and Maintenance

Decommissioning

Others

Companies Profiled:

Nuclearn

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

Key Questions Answered

1. How big is the global AI in Nuclear Power Plant market?
2. What is the demand of the global AI in Nuclear Power Plant market?
3. What is the year over year growth of the global AI in Nuclear Power Plant market?
4. What is the total value of the global AI in Nuclear Power Plant market?
5. Who are the Major Players in the global AI in Nuclear Power Plant market?
6. What are the growth factors driving the market demand?

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Figure 50. Methodology

Figure 51. Research Process and Data Source

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