

# Global AI in Nuclear Power Plant Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global AI in Nuclear Power Plant market size is predicted to grow from US\$ 573 million in 2025 to US\$ 1322 million in 2032; it is expected to grow at a CAGR of 12.9% from 2026 to 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'.

United States market for AI in Nuclear Power Plant is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for AI in Nuclear Power Plant is estimated to increase from US\$ million in

2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for AI in Nuclear Power Plant is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key AI in Nuclear Power Plant players cover Nuclearn, Westinghouse Nuclear, Pacific Gas & Electric Company, X-energy, ABB, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the 'AI in Nuclear Power Plant Industry Forecast' looks at past sales and reviews total world AI in Nuclear Power Plant sales in 2025, providing a comprehensive analysis by region and market sector of projected AI in Nuclear Power Plant sales for 2026 through 2032. With AI in Nuclear Power Plant sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI in Nuclear Power Plant industry.

This Insight Report provides a comprehensive analysis of the global AI in Nuclear Power Plant landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on AI in Nuclear Power Plant portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI in Nuclear Power Plant market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI in Nuclear Power Plant and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI in Nuclear Power Plant.

This report presents a comprehensive overview, market shares, and growth opportunities of AI in Nuclear Power Plant market by product type, application, key players and key regions and countries.

Segmentation by Type:

Perception and Cognition AI

Prediction and Diagnosis AI

Decision-Making and Optimization AI

Task Execution AI

Other

Segmentation by Deployment:

Edge AI

Platform AI

Segmentation by Application:

Design and Construction

Operation and Maintenance

Decommissioning

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

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