

Global Digital Solutions for Nuclear Power Plants Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G7214BAB65FEEN.html>

Date: April 2026

Pages: 148

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

ID: G7214BAB65FEEN

Abstracts

The global Digital Solutions for Nuclear Power Plants market size is expected to reach \$ 10389 million by 2032, rising at a market growth of 10.7% CAGR during the forecast period (2026-2032).

Digital Solutions for Nuclear Power Plants can be defined as a comprehensive digital nuclear power solution that covers the full life cycle management of nuclear power assets. This solution ensures the smooth operation of nuclear power safety production by providing a highly stable and reliable information system, and helps nuclear power companies achieve rapid business development and expansion by leveraging the flexibility and foresight of the information system.

The global market for digital solutions in nuclear power plants is undergoing a profound transformation, driven by the urgent need to modernize aging infrastructure, enhance operational safety, and optimize lifecycle performance. As nuclear fleet operators worldwide confront challenges such as rising maintenance costs, workforce attrition, and increasingly stringent regulatory requirements, digital technologies have emerged as indispensable enablers of sustainable nuclear operations.

The market encompasses a diverse ecosystem of solutions spanning Asset Performance Management, Plant Management systems, Digital Twins, advanced instrumentation and control modernization, operator training simulators, and cybersecurity platforms. These technologies collectively address critical needs across the nuclear plant lifecycle—from design and construction through operation and maintenance to service extension and eventual decommissioning. The integration of artificial intelligence, machine learning, cloud computing, and edge analytics is progressively enhancing predictive capabilities, enabling condition-based maintenance

strategies that reduce unplanned outages while extending component lifespans.

Major global companies of Digital Solutions for Nuclear Power Plants include Siemens, Schneider Electric, Rosatom, Mitsubishi Electric, CNNP, EDF, CGN, L3Harris Technologies, Mitsubishi Heavy Industries, GE Vernova, Dassault Systèmes, Curtiss-Wright, Assystem, Westinghouse Nuclear, Sargent & Lundy, Rockwell Automation, Ansys (Synopsys), AFRY, Alten, etc. In 2025, the world's top five vendors accounted for 38.36% of revenue.

Despite strong growth prospects, the market faces significant challenges. High initial investment requirements, complex regulatory approval processes, and persistent shortages of personnel combining nuclear engineering expertise with data science capabilities can impede adoption. Cybersecurity concerns remain paramount as digital solutions become increasingly interconnected with operational technology networks, requiring defense-in-depth strategies that evolve alongside emerging threats. Addressing these barriers through standardized frameworks, workforce development initiatives, and validated security architectures is essential for realizing the full potential of digital transformation.

Looking forward, the convergence of nuclear fleet modernization, accelerating digital innovation, and growing recognition of nuclear power's role in low-carbon energy transitions positions the digital solutions market for sustained expansion. As operators across mature and emerging markets increasingly leverage digital technologies to enhance safety, optimize performance, and extend asset lifetimes, the industry will continue to evolve toward more integrated, intelligent, and resilient nuclear plant operations worldwide.

This report studies the global Digital Solutions for Nuclear Power Plants demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Digital Solutions for Nuclear Power Plants, 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 Digital Solutions for Nuclear Power Plants that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Digital Solutions for Nuclear Power Plants total market, 2021-2032, (USD Million)

Global Digital Solutions for Nuclear Power Plants total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Digital Solutions for Nuclear Power Plants total market, key domestic companies, and share, (USD Million)

Global Digital Solutions for Nuclear Power Plants revenue by player, revenue and market share 2021-2026, (USD Million)

Global Digital Solutions for Nuclear Power Plants total market by Type, CAGR, 2021-2032, (USD Million)

Global Digital Solutions for Nuclear Power Plants total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Digital Solutions for Nuclear Power Plants 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 Siemens, Schneider Electric, Rosatom, Mitsubishi Electric, CNNP, EDF, CGN, L3Harris Technologies, Mitsubishi Heavy Industries, GE Vernova, 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 Digital Solutions for Nuclear Power Plants 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 Digital Solutions for Nuclear Power Plants Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Digital Solutions for Nuclear Power Plants Market, Segmentation by Type:

Asset Performance Management

Plant Management

Digital Twin

Others

Global Digital Solutions for Nuclear Power Plants Market, Segmentation by Functional Layer:

Monitoring and Management Layer

Process Control Layer

Field Equipment Layer

Global Digital Solutions for Nuclear Power Plants Market, Segmentation by Lifecycle Stage:

Operation and Maintenance

Design and Construction

Service Extension and Decommissioning

Global Digital Solutions for Nuclear Power Plants Market, Segmentation by Application:

Pressurized Water Reactor

Boiling Water Reactor

Others

Companies Profiled:

Siemens

Schneider Electric

Rosatom

Mitsubishi Electric

CNNP

EDF

CGN

L3Harris Technologies

Mitsubishi Heavy Industries

GE Vernova

Dassault Syst?mes

Curtiss-Wright

Assystem

Westinghouse Nuclear

Sargent & Lundy

Rockwell Automation

Ansys (Synopsis)

AFRY

Alten

Key Questions Answered

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

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