

Global Nuclear Power Condition Monitoring System 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 Nuclear Power Condition Monitoring System market size was valued at US\$ 1072 million in 2025 and is forecast to a readjusted size of US\$ 1637 million by 2032 with a CAGR of 6.2% during review period.

A Nuclear Power Condition Monitoring System is an intelligent monitoring platform used for real-time monitoring, data acquisition, fault diagnosis, and health assessment of the operating status of critical equipment and systems in nuclear power plants. Its aim is to promptly detect equipment anomalies, predict potential faults, and ensure the safe and stable operation of nuclear power units. This system typically integrates multiple sensing technologies, including vibration monitoring, temperature monitoring, pressure monitoring, acoustic monitoring, lubricating oil condition analysis, electrical parameter monitoring, and radiation monitoring. It acquires equipment operating data through industrial control networks and data acquisition systems, and combines advanced technologies such as big data analytics, artificial intelligence, machine learning, and digital twins to assess and predict equipment health status, remaining lifespan, and fault risks. Its monitoring targets cover reactor coolant pumps, turbine generator sets, main circulation pipelines, valves, bearings, motors, instrumentation and control equipment, and other safety-critical systems, and it is widely used in nuclear power plant construction, operation and maintenance, life extension retrofitting, and decommissioning management. With the development of smart nuclear power and digital operation and maintenance, NPHMS is continuously upgrading towards intelligent diagnosis, predictive maintenance, remote monitoring, and full life-cycle asset management, becoming an important component of the modern nuclear power safety assurance system.

The global nuclear power condition monitoring system market has maintained steady growth due to increasing safety requirements for nuclear power units, life extension retrofitting of aging units, and accelerated development of digital nuclear power. Demand primarily comes from new nuclear power plant projects, equipment upgrades, predictive maintenance, and full lifecycle operation and maintenance management. Regionally, North America and Europe, with their mature nuclear power operation systems and comprehensive equipment health management mechanisms, lead in online monitoring, intelligent diagnostics, and digital operation and maintenance. The Asia-Pacific region, driven by continuous growth in nuclear power capacity, the localization of the nuclear industry, and the construction of smart nuclear power plants, has become the fastest-growing market. Other emerging nuclear energy countries are also increasing their demand for condition monitoring systems as nuclear power projects are built. Currently, the industry is developing towards intelligence, networking, and integration. Technologies such as artificial intelligence, machine learning, digital twins, industrial IoT, edge computing, and big data analytics are increasingly converging to achieve real-time equipment condition monitoring, fault prediction, and life assessment, improving unit reliability and reducing the risk of unplanned downtime. Meanwhile, the industry still faces challenges such as stringent nuclear safety regulations, long product certification cycles, high difficulty in fusion of multi-source data under complex operating conditions, high costs of digital transformation of aging systems, and increasing cybersecurity risks. A shortage of professional technical personnel and cross-platform compatibility issues also constrain market development to some extent. Looking ahead, with the extension of nuclear power plant lifespan, the construction of small modular reactors (SMRs), and the development of smart nuclear power, the nuclear power condition monitoring system market is expected to maintain stable growth. The industry's average gross profit margin typically remains between 30% and 45%, with high-end intelligent monitoring platforms, predictive maintenance software, and integrated online diagnostic solutions possessing high added value and profitability.

This report is a detailed and comprehensive analysis for global Nuclear Power Condition Monitoring System 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 Nuclear Power Condition Monitoring System market size and forecasts, in consumption value (\$ Million), 2021-2032

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

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

Global Nuclear Power Condition Monitoring System 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 Nuclear Power Condition Monitoring System

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 Nuclear Power Condition Monitoring System 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 Kistler, ?Bently Nevada, ?Mirion Technologies, ?Westinghouse Nuclear, ?Sensonics, ITI Group, Encardio Rite, GeoSIG, Baker Hughes, Mirion, etc.

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

Market segmentation

Nuclear Power Condition Monitoring System 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

Reactor Coolant Pump Monitoring System

Turbine and Generator Monitoring System

Valve and Piping Monitoring System

Motor and Bearing Monitoring System

I&C and Electrical Equipment Monitoring System

Market segment by Technology

Vibration Monitoring System

Acoustic Monitoring System

Temperature and Pressure Monitoring System

Others

Market segment by Application

Commercial Nuclear Power Plants

Small Modular Reactors

Others

Market segment by players, this report covers

Kistler

?Bently Nevada

?Mirion Technologies

?Westinghouse Nuclear

?Sensonics

ITI Group

Encardio Rite

GeoSIG

Baker Hughes

Mirion

Wilcoxon Sensing Technologies

Hitachi GE Vernova Nuclear Energy

Mitsubishi Heavy Industries

SHINKAWA Electric Co., Ltd.

CNCS

CGN

China National Nuclear Corporation

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 Nuclear Power Condition Monitoring System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Nuclear Power Condition Monitoring System, with revenue, gross margin, and global market share of Nuclear Power Condition Monitoring System from 2021 to 2026.

Chapter 3, the Nuclear Power Condition Monitoring System 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 Nuclear Power Condition Monitoring System 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 Nuclear Power Condition Monitoring System.

Chapter 13, to describe Nuclear Power Condition Monitoring System research findings and conclusion.

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