

Global Power Grid Fault Prediction Service 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 Power Grid Fault Prediction Service market size was valued at US\$ 1361 million in 2025 and is forecast to a readjusted size of US\$ 2652 million by 2032 with a CAGR of 10.0% during review period.

Power grid fault prediction service constitute a category of intelligent services designed for the transmission, substation, distribution, and consumption segments of the power grid. Leveraging grid operational data, equipment condition data, meteorological and environmental data, historical fault records, inspection imagery, sensor monitoring data, and load fluctuation data?and utilizing big data analytics, machine learning, digital twins, condition assessment, and risk early-warning models?these services enable the proactive identification and prediction of potential faults in power equipment such as transmission lines, transformers, switchgear, circuit breakers, cables, and distribution substations. The core objective is to pivot from traditional 'post-fault emergency repair' to 'pre-fault early warning and preventive maintenance.' By assisting grid operators in assessing fault risk locations, fault types, occurrence probabilities, and potential impact zones, these services enhance power supply reliability, minimize outage-related losses, and optimize maintenance schedules. They are widely applied across various scenarios, including grid dispatch, equipment operation and maintenance (O&M), distribution automation, transmission line inspection, new energy grid integration, and urban power safety management.

The upstream segment of the power grid fault prediction service value chain primarily encompasses transmission lines, transformers, switchgear, circuit breakers, cables, distribution terminals, smart meters, online monitoring sensors, specialized monitoring

equipment (for infrared, partial discharge, vibration, and temperature), inspection drones, meteorological data, load data, historical fault data, SCADA/EMS/DMS systems, and cloud/edge computing resources. The midstream segment consists of grid fault prediction platforms and service providers, whose core capabilities include equipment condition assessment, anomaly detection, fault probability prediction, risk classification, outage scope estimation, maintenance strategy optimization, digital twin modeling, and O&M work order integration. The downstream segment primarily targets power generation groups, new energy power stations, industrial parks, rail transit systems, data centers, and large-scale power consumers, facilitating their transition from 'post-fault emergency repair' to 'pre-fault early warning, condition-based maintenance, and proactive O&M.' The gross margin for power grid fault prediction services stands at approximately 59%.

From the perspective of power grid operation and maintenance (O&M) models, the core value of power grid fault prediction services lies in driving the transition of the power grid from 'reactive emergency repair' to 'proactive prevention.' Traditional grid O&M relies primarily on periodic inspections and post-fault emergency repairs—a method prone to issues such as delayed fault detection, expanded outage areas, and high repair costs. By collecting real-time data on equipment status, load fluctuations, meteorological conditions, historical faults, and inspection records, grid fault prediction services enable the early identification of anomalous trends in assets such as transmission lines, transformers, switchgear, and cables. This empowers O&M entities to formulate maintenance plans in advance, thereby mitigating the risk of sudden power outages.

From the standpoint of technological application, power grid fault prediction services are evolving from the monitoring of isolated equipment to the integration of multi-source data and intelligent analysis. Early-stage power equipment monitoring focused predominantly on single-point metrics—such as temperature, partial discharge, current, and voltage—whereas actual faults are often attributable to a confluence of factors, including equipment aging, adverse weather conditions, load fluctuations, construction-related damage, vegetation encroachment, and lightning strikes. By leveraging AI algorithms, digital twins, edge computing, and risk modeling, these systems can comprehensively assess the probability of fault occurrence, the potential scope of impact, and the priority level of the issue, thereby enhancing both the accuracy and operational utility of fault predictions.

Regarding future trends, power grid fault prediction services are poised to become a critical supporting capability for next-generation power systems and smart distribution networks. With the integration of new energy sources into the grid, the expansion of

electric vehicle charging infrastructure, the proliferation of distributed energy resources and energy storage systems, and the rapid growth of urban load demands, power grid operating conditions have become increasingly complex; consequently, traditional experience-based O&M approaches are no longer sufficient to meet the stringent requirements for high-reliability power supply. In the future, the competitive focus among service providers will shift from the mere ability to 'trigger an alarm' to the comprehensive capability to 'predict faults, pinpoint their locations, and seamlessly coordinate maintenance and dispatch operations.' This evolution will gradually culminate in the establishment of a closed-loop O&M ecosystem encompassing the entire cycle: 'monitoring?prediction?early warning?work order dispatch?fault resolution?post-mortem analysis.'

This report is a detailed and comprehensive analysis for global Power Grid Fault Prediction Service 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 Power Grid Fault Prediction Service market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Power Grid Fault Prediction Service market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Power Grid Fault Prediction Service market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Power Grid Fault Prediction Service 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 Power Grid Fault Prediction Service

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 Power Grid Fault Prediction Service 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 GE Vernova, IBM, Oracle, C3 AI, Sentient Energy, Siemens, Schneider Electric, ABB, Hitachi Energy, AVEVA, etc.

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

Market segmentation

Power Grid Fault Prediction Service 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

Fault Prediction Based On Equipment Status

Fault Prediction Based On System Operation Characteristics

Others

Market segment by Prediction Time Window

Real-Time Warning Type (Lead Time ? 15 Minutes)

Short-Term Forecasting Type (Lead Time: 15 Minutes ? 24 Hours)

Medium-Term Forecasting Type (Lead Time: 1 ? 7 Days)

Long-Term Health Forecasting Type (Lead Time > 7 Days)

Market segment by Risk Score

Low-Risk Forecast

Medium-Risk Forecast

High-Risk Forecast

Market segment by Application

Power Industry

New Energy Industry

Industrial Manufacturing

Others

Market segment by players, this report covers

GE Vernova

IBM

Oracle

C3 AI

Sentient Energy

Siemens

Schneider Electric

ABB

Hitachi Energy

AVEVA

Safegrid

NR Electric

XJ Electric

Dongfang Electronics

iESLab

CYG Sunri

Toshiba Energy Systems & Solutions

Mitsubishi Electric

Fuji Electric

Meidensha

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 Power Grid Fault Prediction Service product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Power Grid Fault Prediction Service, with revenue, gross margin, and global market share of Power Grid Fault Prediction Service from 2021 to 2026.

Chapter 3, the Power Grid Fault Prediction Service 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 Power Grid Fault Prediction Service 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 Power Grid Fault Prediction Service.

Chapter 13, to describe Power Grid Fault Prediction Service research findings and conclusion.

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