

Global Power Grid Fault Prediction Service Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Power Grid Fault Prediction Service market size is predicted to grow from US\$ 1294 million in 2025 to US\$ 2608 million in 2032; it is expected to grow at a CAGR of 10.6% from 2026 to 2032.

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.'

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

This Insight Report provides a comprehensive analysis of the global Power Grid Fault Prediction Service 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 Power Grid Fault Prediction Service portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Power Grid Fault Prediction Service market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Power Grid Fault Prediction Service 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 Power Grid Fault Prediction Service.

This report presents a comprehensive overview, market shares, and growth opportunities of Power Grid Fault Prediction Service market by product type, application, key players and key regions and countries.

Segmentation by Type:

Fault Prediction Based On Equipment Status

Fault Prediction Based On System Operation Characteristics

Others

Segmentation 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)

Segmentation by Risk Score:

Low-Risk Forecast

Medium-Risk Forecast

High-Risk Forecast

Segmentation by Application:

Power Industry

New Energy Industry

Industrial Manufacturing

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.

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

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