

# Global Power Monitoring and Control Software Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Power Monitoring and Control Software market size is expected to reach \$ 495 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Power Monitoring and Control Software is an automated software platform for real-time acquisition, monitoring, analysis, and control of power system operating status. It acquires electrical parameters such as voltage, current, power, frequency, and switch status by connecting to remote terminal units, intelligent electronic devices, and communication networks. These parameters are then visualized, stored, and used for event alarms and trend analysis on a host computer. The software features remote control, telemetry, remote signaling, and remote adjustment capabilities, and supports integration with protection devices, automatic control equipment, and dispatching systems to achieve rapid fault location and recovery. It is widely used in power grid dispatching, substations, power plants, industrial and mining enterprises, and large buildings, serving as a core tool for ensuring the safe, stable, and economical operation of power systems.

The global power monitoring and control software market exhibits a mature structure in North America, a stable structure in Europe, and rapid growth in the Asia-Pacific region. North America, driven by grid digitalization, upgrades to aging infrastructure, and extreme weather responses, is dominated by companies like Eaton Corporation and General Electric Company, and is a highly mature market. Europe focuses on the grid stability challenges brought about by the high proportion of renewable energy grid integration, with EMS/DMS and simulation software from companies like Siemens and ETAP widely used. The Asia-Pacific region, driven by new energy investment, smart grid construction, and industrial automation, has seen rapid growth of Chinese

manufacturers, becoming the fastest-growing regional market globally. Future trends include cloud and SaaS deployment, AI-driven fault prediction and health management (PHM), digital twin simulation, and the deep integration of edge computing and lightweight monitoring solutions. Key obstacles include rising cybersecurity risks in industrial control systems, poor compatibility in upgrading legacy systems, a shortage of skilled personnel, and interoperability issues between different vendors' equipment. Dynamically, the IEC 61850 standard is being applied more extensively, domestic substitution is accelerating in China, and the demand for voltage and frequency stability monitoring brought about by renewable energy grid integration is spurring the development of new real-time monitoring solutions.

This report studies the global Power Monitoring and Control Software demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Monitoring and Control Software, 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 Power Monitoring and Control Software that contribute to its increasing demand across many markets.

#### Highlights and key features of the study

Global Power Monitoring and Control Software total market, 2021-2032, (USD Million)

Global Power Monitoring and Control Software total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Power Monitoring and Control Software total market, key domestic companies, and share, (USD Million)

Global Power Monitoring and Control Software revenue by player, revenue and market share 2021-2026, (USD Million)

Global Power Monitoring and Control Software total market by Type, CAGR, 2021-2032, (USD Million)

Global Power Monitoring and Control Software total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Power Monitoring and Control Software 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 Eaton Corporation, ABB, Emerson Electric, Fuji Electric FA Components & Systems, Fluke Corporation, General Electric Company, Mitsubishi Electric Corporation, Omron Corporation, Schneider Electric SE, Rockwell

Automation, 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 Power Monitoring and Control Software 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 Power Monitoring and Control Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Monitoring and Control Software Market, Segmentation by Type:

On-Premises Deployment

Cloud-Based Deployment

Cloud-Edge Collaborative Deployment

Global Power Monitoring and Control Software Market, Segmentation by User Terminal:

Power Generation Monitoring and Control Software

Power Transmission Monitoring and Control Software

Substation Monitoring and Control Software

Power Distribution Monitoring and Control Software

User-Side/Microgrid Monitoring and Control Software

Global Power Monitoring and Control Software Market, Segmentation by Sampling Frequency:

Sampling Frequency ? 1Hz

Sampling Frequency: 1-10Hz

Sampling Frequency: 10-100Hz

Sampling Frequency ? 100Hz

Global Power Monitoring and Control Software Market, Segmentation by Application:

Industrial

Residential

Commercial

Companies Profiled:

Eaton Corporation

ABB

Emerson Electric

Fuji Electric FA Components & Systems

Fluke Corporation

General Electric Company

Mitsubishi Electric Corporation

Omron Corporation

Schneider Electric SE

Rockwell Automation

Siemens AG

Yokogawa Electric Corporation

PSI Software

Open Systems International

Wonderware (AVEVA)

Toshiba Energy Systems

Hitachi Energy

NEC Corporation

GUODIAN NANJING AUTOMATION

Acrel

## Sunwayland

### Key Questions Answered

1. How big is the global Power Monitoring and Control Software market?
2. What is the demand of the global Power Monitoring and Control Software market?
3. What is the year over year growth of the global Power Monitoring and Control Software market?
4. What is the total value of the global Power Monitoring and Control Software market?
5. Who are the Major Players in the global Power Monitoring and Control Software market?
6. What are the growth factors driving the market demand?

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