

# Global PV Monitoring and Control Software Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global PV Monitoring and Control Software market size is predicted to grow from US\$ 1287 million in 2025 to US\$ 2896 million in 2032; it is expected to grow at a CAGR of 12.3% from 2026 to 2032.

PV Monitoring and Control Software refers to specialized software systems designed to monitor, manage, and optimize the performance of photovoltaic (PV) solar power systems. These platforms collect real-time data from solar panels, inverters, and sensors, providing insights into energy generation, system efficiency, fault detection, and maintenance needs. They often include features like remote monitoring, performance analytics, predictive maintenance, alarm notifications, and integration with energy management systems. The software is used by residential, commercial, and utility-scale solar operators to maximize energy yield, ensure system reliability, and reduce operational costs. Enterprise / utility-scale systems: Large installations often contract multi-year enterprise licenses which can run tens of thousands to hundreds of thousands of USD annually depending on data volume, customization, predictive analytics, and integration with asset management systems.

United States market for PV Monitoring and Control Software is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for PV Monitoring and Control Software is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for PV Monitoring and Control Software is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key PV Monitoring and Control Software players cover SolarEdge Technologies (NASDAQ: SEDG, USA), SMA Solar Technology AG (ETR: S92, Germany), First Solar, Inc. (NASDAQ: FSLR, USA), ABB Ltd (SIX: ABBN, Switzerland), Huawei Technologies Co., Ltd (Private, China), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global PV Monitoring and Control Software 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 PV Monitoring and Control Software portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PV Monitoring and Control Software market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PV Monitoring and Control Software 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 PV Monitoring and Control Software.

This report presents a comprehensive overview, market shares, and growth opportunities of PV Monitoring and Control Software market by product type, application, key players and key regions and countries.

Segmentation by Type:

Cloud-Based

On-Premises

Segmentation by Component:

Monitoring Software

Control Software

Analytics & Predictive Maintenance Platforms

Segmentation by Service Model:

Software-as-a-Service (SaaS)

On-Premises / Licensed Software

Hybrid Models

Segmentation by Application:

Power Generation Companies / IPPs

Commercial & Industrial Energy Users

Residential Consumers

Government & Public Sector

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.

SolarEdge Technologies (NASDAQ: SEDG, USA)

SMA Solar Technology AG (ETR: S92, Germany)

First Solar, Inc. (NASDAQ: FSLR, USA)

ABB Ltd (SIX: ABBN, Switzerland)

Huawei Technologies Co., Ltd (Private, China)

SunPower Corporation (NASDAQ: SPWR, USA)

Tigo Energy (Private, USA)

GreenPowerMonitor (DNV, Private, Netherlands)

Meteocontrol GmbH (Private, Germany)

Power Factors, LLC (Private, USA)

SUNGO Energy Technology (Private, China)

Dalian Linshu Electron Co., Ltd (Private, China)

CDS Solar (Private, China)

Shenzhen Growatt New Energy Co., Ltd (SZSE: 300454, China)

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