

Global Power Digital Twins Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Power Digital Twins market size is expected to reach \$ 2183 million by 2032, rising at a market growth of 10.9% CAGR during the forecast period (2026-2032).

Power digital twins are virtual models and digital technologies used to recreate the operation and status of a power system in real time. This technology combines advanced technologies such as the Internet of Things (IoT), big data, cloud computing, and artificial intelligence (AI) to create a virtual copy of the power system through real-time data acquisition, analysis, and simulation. Power digital twins not only enable status monitoring, performance optimization, and fault prediction of power plant equipment, but also support intelligent grid dispatching, energy flow optimization, and load forecasting, thereby improving the efficiency, reliability, and sustainability of the power system. Through this technology, power companies can anticipate potential problems in a digital environment and take measures to reduce costs, improve safety, and achieve intelligent operation.

With the global energy industry's transformation towards green, intelligent, and digital transformation, the prospects for power digital twins are very broad. With the rapid growth of renewable energy and the increasing complexity and instability of the power grid, digital twin technology will become an important tool to ensure the efficient, reliable, and flexible operation of the power system. Power digital twins can help power companies cope with energy demand fluctuations, optimize energy allocation, and reduce carbon emissions through real-time data monitoring, dynamic dispatching, and predictive analysis. Furthermore, with the further development of smart grids and energy storage technologies, power digital twins will gradually be integrated into the core of the global power system, promoting a smarter, more efficient, and low-carbon energy management system. It is expected that in the next few years, power digital

twins will become an indispensable key technology in the power industry, widely applied in all aspects of power production, transmission, distribution, and consumption.

This report studies the global Power Digital Twins demand, key companies, and key regions.

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

Highlights and key features of the study

Global Power Digital Twins total market, 2021-2032, (USD Million)

Global Power Digital Twins total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Power Digital Twins total market, key domestic companies, and share, (USD Million)

Global Power Digital Twins revenue by player, revenue and market share 2021-2026, (USD Million)

Global Power Digital Twins total market by Segment, CAGR, 2021-2032, (USD Million)

Global Power Digital Twins total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Power Digital Twins 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 ABB, Siemens, GE, Microsoft, Schneider Electric, China Nuclear Power, Rockwell Automation, Hexagon, Honeywell, Imagine 4D, 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 Digital Twins market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Segment, 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 Digital Twins Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Digital Twins Market, Segmentation by Segment:

Power Generation Digital Twin

Power Transmission Digital Twin

Power Distribution Digital Twin

Power Consumption Digital Twin

Global Power Digital Twins Market, Segmentation by Technology Application:

Real-time Monitoring Digital Twin

Predictive Maintenance Digital Twin

Optimized Scheduling Digital Twin

Intelligent Scheduling and Demand Response Digital Twin

Global Power Digital Twins Market, Segmentation by Technology-driven Approach:

Sensor-Driven Digital Twin

AI and Machine Learning-Driven Digital Twin

Big Data and Cloud Platform-Driven Digital Twin

Global Power Digital Twins Market, Segmentation by Application:

Thermal Power Generation

Nuclear Power

Renewable Energy

Others

Companies Profiled:

ABB

Siemens

GE

Microsoft

Schneider Electric

China Nuclear Power

Rockwell Automation

Hexagon

Honeywell

Imagine 4D

Altair

DNV

Oracle Utilities

AWS

Hitachi

Toshiba

Mitsubishi Electric

State Grid Corporation of China

Key Questions Answered

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

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