

Digital Power Utility Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented by Technology (Integrated Solutions, Hardware), Sector (Power Generation, Transmission and Distribution (T&D), Energy Storage, Energy Trading), By Region, By Competition, 2020-2030F

Market Report | 2025-11-27 | 188 pages | TechSci Research

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Report description:

Market Overview

The Global Digital Power Utility Market, valued at USD 68.14 Billion in 2024, is projected to experience a CAGR of 32.90% to reach USD 375.45 Billion by 2030. The Global Digital Power Utility Market involves the integration of advanced digital technologies, data analytics, and communication systems into traditional power utility infrastructure to enhance operational efficiency, reliability, and sustainability across electricity generation, transmission, distribution, and consumption.

Key Market Drivers

Grid modernization and smart infrastructure deployment represent a pivotal driver for the Global Digital Power Utility Market, directly addressing the critical need for enhanced reliability, resilience, and efficiency across energy networks. Traditional grid designs struggle with the complexities of a modern energy landscape, making extensive upgrades essential. Digital technologies facilitate advanced monitoring, control, and automation, crucial for mitigating outages, optimizing power flow, and managing decentralized generation. These modernization efforts extend beyond physical infrastructure to intelligent systems designed for dynamic response.

Key Market Challenges

The substantial capital expenditure and high operating costs inherent in transforming legacy utility infrastructure into modern digital systems significantly impede the growth of the Global Digital Power Utility Market. Utilities face considerable financial hurdles when upgrading existing, often aging, grids with advanced digital technologies. This necessitates large upfront investments for hardware, software, and the integration of complex communication systems, which can strain budgets and defer necessary modernization projects.

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Key Market Trends

AI and Machine Learning optimize grid operations through predictive analytics and intelligent energy flow management, enhancing reliability and resilience. These technologies enable utilities to anticipate equipment failures and schedule proactive maintenance. According to the Edison Electric Institute, U. S. electric utilities are projected to invest over \$1.1 trillion between 2025 and 2029, with a significant part supporting electricity demand driven by artificial intelligence and data center growth.

Key Market Players

- General Electric Company
- Siemens AG
- ABB Ltd.
- Accenture PLC
- Capgemini Services SAS
- IBM Corporation
- SAP SE
- Microsoft Corporation
- Wipro Limited
- Infosys Limited

Report Scope:

In this report, the Global Digital Power Utility Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

-□ Digital Power Utility Market, By Technology:

- o Integrated Solutions
- o Hardware

-□ Digital Power Utility Market, By Sector:

- o Power Generation
- o Transmission and Distribution (T&D)
- o Energy Storage
- o Energy Trading

-□ Digital Power Utility Market, By Region:

- o North America
 - United States
 - Canada
 - Mexico
- o Europe
 - France
 - United Kingdom
 - Italy
 - Germany
 - Spain
- o South America
 - Brazil
 - Argentina
 - Colombia
- o Middle East & Africa
 - South Africa
 - Saudi Arabia
 - UAE
- o Asia Pacific

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- China
- India
- Japan
- Australia
- South Korea

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Digital Power Utility Market.

Available Customizations:

Global Digital Power Utility Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

-□Detailed analysis and profiling of additional market players (up to five).

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