

# Electrical Grid Market By Power Source (Coal, Natural Gas, Hydro, Others), By Application (Power Generation, Transmission, Distribution): Global Opportunity Analysis and Industry Forecast, 2024-2033

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## Abstracts

The global electrical grid market size was valued at \$251.9 billion in 2023, and is projected to reach \$413.1 billion by 2033, growing at a CAGR of 5.1% from 2024 to 2033.

An electrical grid, also known as the power grid, is a complex network designed to deliver electricity from producers to consumers. It consists of power stations, transmission lines, substations, and distribution systems. The electrical grid allows for the efficient transmission and distribution of electrical energy across large distances, ensuring that homes, businesses, and industries have reliable access to power. The electrical grid market is a critical sector that involves the generation, transmission, distribution, and management of electricity. It is influenced by technological advancements, infrastructure investments, regulatory frameworks, and the global transition toward renewable energy sources.

Increase in demand for renewable energy integration into electrical grids is driven by a combination of factors, including global efforts to reduce carbon emissions, government incentives promoting sustainable energy solutions, and the need for energy security and diversification. In addition, rise in adoption of electric vehicles and distributed energy resources further accelerates the demand for enhanced grid connectivity and renewable energy integration solutions. These factors collectively drive innovation and investments in the development of resilient, adaptive, and sustainable power systems. This increased investment is particularly focused on emerging market and developing

economies (EMDEs) where renewable energy adoption is accelerating rapidly. All these factors are expected to drive the electrical grid market trend during the forecast period.

However, developing and modernizing electrical grids require extensive capital to acquire advanced equipment, construct infrastructure, and implement cutting-edge technologies such as smart grids and renewable energy integration. These projects often involve the installation of high-capacity transformers, power lines, substations, and other critical components, which incur substantial upfront costs. In addition, the expenses related to skilled labor, logistics, and regulatory compliance further increase the financial burden on stakeholders. As a result, many regions, particularly in developing countries, struggle to allocate sufficient resources to upgrade or expand their electrical grid systems. All these factors are expected to hamper electrical grid market growth.

On the other hand, as power grids become more complex with the integration of renewable energy sources, electric vehicles, and distributed energy resources (DERs), there is a surge in need for advanced technologies to optimize grid operations. Digitalization, on the other hand, leverages IoT, big data analytics, and AI to enhance predictive maintenance, load forecasting, and energy distribution. Smart grid technologies, including advanced metering infrastructure (AMI), remote terminal units (RTUs), and distribution management systems (DMS), are gaining traction. These investments reduce operational costs and enable a seamless integration of renewable energy and improve grid resilience. All these factors are expected to offer electric grid investment opportunities during the forecast period. In February 2024, Schneider Electric partnered with Itron to modernize and simplify energy distribution. This collaboration aims to digitalize supply and demand management to maximize grid flexibility, capacity, and efficiency.

## Segment Review

The electrical grid market is segmented into power source, application, and region. On the basis of power source, the market is segregated into coal, natural gas, hydro, and others. On the basis of application, the market is classified into power generation, transmission, and distribution. Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

On the basis of power source, the natural gas segment accounted for more than one-third of the electrical grid market share in 2023 and is expected to maintain its dominance during the forecast period.

On the basis of application, the power generation segment accounted for more than two-fifths of the electrical grid market share in 2023 and is expected to maintain its dominance during the forecast period.

Region-wise, Asia-Pacific was the highest revenue contributor in the global electrical grid market in 2023.

### **Competition Analysis**

The key players in the electrical grid market include Schneider Electric SE, Siemens AG, Toshiba Corporation, Eaton Corporation, Mitsubishi Electric Corporation, ABB Ltd, NextEra Energy, Inc, General Electric Company, National Grid, and Itron Inc.

### **Key Benefits for Stakeholders**

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the electrical grid market analysis from 2023 to 2033 to identify the prevailing electrical grid market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the electrical grid market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global electrical grid market trends, key players, market segments, application areas, and market growth strategies.

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Analysis of raw material in a product (by %)

Manufacturing Capacity

Technology Trend Analysis

Go To Market Strategy

New Product Development/ Product Matrix of Key Players

Regulatory Guidelines

Additional company profiles with specific to client's interest

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

List of customers/consumers/raw material suppliers- value chain analysis

SWOT Analysis

## **Key Market Segments**

By Power Source

Natural Gas

Hydro

Others

Coal

By Application

Power Generation

Transmission

Distribution

## By Region

### North America

U.S.

Canada

Mexico

### Europe

Germany

UK

Spain

Italy

France

Rest of Europe

### Asia-Pacific

China

India

Japan

South Korea

Australia

Rest of Asia-Pacific

### LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

### Key Market Players

Schneider Electric SE

Siemens AG

Mitsubishi Electric Corporation

NextEra Energy, Inc

National Grid

ABB Ltd.

Itron Inc.

Eaton Corporation PLC

General Electric Company

Toshiba Corporation

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