

Mexico Power Grids Market Size, Share, Trends and Forecast by Type, Energy Source, and Region, 2026-2034

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Abstracts

The Mexico power grids market size reached USD 3.2 Billion in 2025. Looking forward, IMARC Group expects the market to reach USD 6.2 Billion by 2034, exhibiting a growth rate (CAGR) of 7.51 % during 2026-2034. The market is being driven by increasing industrialization, rising electricity demand, integration of renewable energy sources, and government initiatives to modernize grid infrastructure. Additionally, foreign investments and public-private partnerships are accelerating technological upgrades. These dynamics are contributing significantly to the expansion of the Mexico power grids market share.

MEXICO POWER GRIDS MARKET TRENDS:

Integration of Decentralized Energy Resources (DERs)

A significant trend shaping the Mexico power grids market growth is the increasing integration of decentralized energy resources (DERs), including rooftop solar panels, small-scale wind systems, and microgrids. These DERs are being adopted to enhance energy access in remote or underserved areas while reducing dependency on centralized power generation. For instance, according to recent industry trends, Mexico's government unveiled a USD 22.3 Billion electricity expansion plan for 2025–2030, aiming to add 22,674MW to the national grid. Led by CFE with private sector involvement, the initiative includes solar, wind, hydroelectric, and gas-based projects, as well as battery storage and cogeneration at PEMEX facilities. Major upgrades target rural electrification and grid infrastructure, especially in Queretaro. The plan also supports telecommunications expansion and economic growth, aligning with Mexico's broader sustainable development and energy security objectives. The

Mexican government is also encouraging DER integration through incentives and regulatory support, fostering local energy autonomy and reducing transmission losses.

Digitalization and Smart Grid Deployment

Digital transformation is a pivotal trend contributing to the modernization of Mexico's electricity infrastructure. The deployment of smart grid technologies, including advanced metering infrastructure (AMI), grid automation, and data analytics, is enabling real-time monitoring, fault detection, and load forecasting. These innovations allow utilities to optimize grid performance, reduce operational costs, and enhance customer service. Mexico's regulatory framework has evolved to accommodate such advancements, particularly in urban centers where digital penetration is higher. Investments in digital substations and cloud-based energy management systems are further accelerating this transformation. Moreover, the shift towards smart grids is facilitating better integration of renewable energy into the power mix, ensuring a stable supply amid intermittent sources. These advancements underscore the strategic importance of digitalization in Mexico power grids market growth. For instance, in August 2024, CENACE, in partnership with Huawei, launched a 10 Gbps smart power network to modernize Mexico's electricity grid. The system enhances real-time data sharing, reliability, and operational efficiency across 11 national centers. Huawei's solution includes Wi-Fi access points, CloudEngine switches, and secure LAN/WAN management.

Cross-Border Energy Trade and Grid Interconnection

Cross-border energy trade is emerging as a transformative factor for the Mexico power grids market growth. Mexico's geographic proximity to the United States offers opportunities for grid interconnection, enabling electricity import/export and fostering regional energy security. Bilateral agreements and interconnection projects are creating new avenues for electricity trading, particularly in renewable energy. For instance, as per industry reports, Mexico relies on U.S. gas for over 50% of its electricity. Reaching 45% clean energy by 2030 could reduce gas imports by 20%, save \$1.6 billion USD annually, and create over 434,000 direct jobs. Achieving this requires installing 46 GW of solar and wind power, tripling current renewable capacity. Consequently, the government has committed to this target, promoting energy independence and economic resilience. Clean energy offers a strategic pathway to secure and diversify Mexico's electricity grid. This trend is fostering infrastructure development near border regions, improving transmission capacity, and enhancing grid reliability. Additionally, regulatory harmonization between Mexico and its trade partners is encouraging foreign

investment in transmission networks and smart grid technologies.

MEXICO POWER GRIDS MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional levels for 2026-2034. Our report has categorized the market based on type and energy source.

Type Insights:

Power Generation

Transmission Lines

Distribution Networks

Consumer Use

The report has provided a detailed breakup and analysis of the market based on the type. This includes power generation, transmission lines, distribution networks, and consumer use.

Energy Source Insights:

Solar

Wind

Natural Gas

Coal

Others

The report has provided a detailed breakup and analysis of the market based on the energy source. This includes solar, wind, natural gas, coal, and others.

Regional Insights:

Northern Mexico

Central Mexico

Southern Mexico

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Northern Mexico, Central Mexico, Southern Mexico, and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the Mexico power grids market performed so far and how will it perform in the coming years?

What is the breakup of the Mexico power grids market on the basis of type?

What is the breakup of the Mexico power grids market on the basis of energy source?

What is the breakup of the Mexico power grids market on the basis of region?

What are the various stages in the value chain of the Mexico power grids market?

What are the key driving factors and challenges in the Mexico power grids market?

What is the structure of the Mexico power grids market and who are the key players?

What is the degree of competition in the Mexico power grids market?

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