

# Mexico Smart Power Transmission Market Size, Share, Trends and Forecast by Component, Technology, Voltage Level, End User, and Region, 2026-2034

<https://marketpublishers.com/r/M17D3C12B6E7EN.html>

Date: June 2026

Pages: 118

Price: US\$ 2,999.00 (Single User License)

ID: M17D3C12B6E7EN

## Abstracts

The Mexico smart power transmission market size reached USD 4,594.5 Million in 2025. Looking forward, IMARC Group expects the market to reach USD 6,374.3 Million by 2034, exhibiting a growth rate (CAGR) of 3.59% during 2026-2034. Mexico is fast modernizing its power network with the help of advanced grid monitoring systems, digital substations integrated with Internet of Things (IoT), and High Voltage Direct Current (HVDC) technology. These technologies advance real-time tracking of performance, increase grid stability, and facilitate integration of renewable sources of energy. The trend toward a wiser and stronger infrastructure is led by increasing energy demands and urbanization. Such improvements are playing an important role in the growth of Mexico smart power transmission market share.

### MEXICO SMART POWER TRANSMISSION MARKET TRENDS:

#### Integration of Advanced Grid Monitoring Technologies

Mexico is experiencing a dramatic shift in its power transmission infrastructure with the greater use of cutting-edge grid monitoring technologies. Infrastructure like Phasor Measurement Units (PMUs) and Wide-Area Monitoring Systems (WAMS) is facilitating real-time monitoring of grid performance, allowing operators to quickly identify and correct anomalies. These technologies enhance system performance and minimize transmission losses through high-resolution reporting of voltage, current, and frequency parameters. As Mexico tries to improve the stability and resilience of its electricity grid, the installation of such smart monitoring infrastructure is increasingly becoming a priority. According to the reports, in September 2023, Mexico's CFE has announced a US\$750 million investment to expand its National Transmission Network, including 766

km of 400kV lines and STATCOM devices over three states. Moreover, the strategic aggregation of data analytics and grid smarts is also facilitating preventive care and emergency planning. Mexico smart power transmission development is thus being propelled by this technological shift, situating the nation towards a more responsive and digitally controlled transmission space that complies with international standards for power quality and operational transparency.

### Development of Digital Substations and IoT Integration

Digital substations are becoming a benchmark in Mexico's power transmission system modernization. By substituting analog components with intelligent electronic devices (IEDs), these substations offer higher control, automation, and protection functions. Coupled with Internet of Things (IoT) sensors, integration enables continuous monitoring of equipment and predictive maintenance to minimize downtime and maximize asset longevity. For instance, in May of 2023, Infineon released the OPTIGA™ Authenticate NBT NFC I2C bridge tag, which might boost Mexico's Smart Power Transmission Market through the protection of IoT devices within smart grid applications, enhancing efficiency and reliability. Furthermore, this digitization provides remote access and real-time visibility across the power network, supporting faster decision-making and better resource utilization. In addition, the merging of operational technology (OT) with information technology (IT) supports data sharing and system integration. With rising energy demand and urbanization, digital substations are making sure that Mexico's grid infrastructure is scalable and future-proof. These developments not only enhance operating efficiency but also facilitate the national shift towards smarter, cleaner energy systems that can accommodate changing consumption trends and regulatory requirements.

### Implementation of High Voltage Direct Current (HVDC) Systems

The implementation of High Voltage Direct Current (HVDC) transmission systems is a forward step in Mexico's strategy for the transfer of power over long distances and high capacity. HVDC technology is more efficient than the conventional alternating current systems, especially in reducing losses during transmission over long distances. This is particularly relevant in a geographically separated energy generation and consumption hub like Mexico. Implementation of HVDC makes interconnection to the grid easier, aids integration of renewable sources, and stabilizes regional grid power flow. It is also an effective answer to improved voltage control and enhanced load balancing. As Mexico goes on modernizing its transmission facilities, HVDC systems are proving to be vital facilitators for energy security and grid stability. The cost-effectiveness and scalability of

these systems position them to effectively address future energy needs and underpin wider sustainability objectives, while supporting the core capabilities of a smart, responsive national grid.

#### MEXICO SMART POWER TRANSMISSION 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 component, technology, voltage level, and end user.

##### Components Insights:

Transmission Towers and Conductors

Transformers and Substations

Sensors and IoT Devices

Software and Data Analytics Solutions

Communication Networks

The report has provided a detailed breakup and analysis of the market based on the components. This includes transmission towers and conductors, transformers and substations, sensors and iot devices, software and data analytics solutions, and communication networks.

##### Technology Insights:

Supervisory Control and Data Acquisition (SCADA) Systems

Phasor Measurement Units (PMUs)

Flexible AC Transmission Systems (FACTS)

Advanced Metering Infrastructure (AMI)

Smart Transformers

## High Voltage Direct Current (HVDC) Transmission

## Wide-Area Monitoring Systems (WAMS)

A detailed breakup and analysis of the market based on the technology have also been provided in the report. This includes supervisory control and data acquisition (SCADA) systems, phasor measurement units (PMUs), flexible AC transmission systems (FACTS), advanced metering infrastructure (AMI), smart transformers, high voltage direct current (HVDC) transmission, and wide-area monitoring systems (WAMS).

### Voltage Level Insights:

#### Extra High Voltage (EHV) Transmission (? 220 kV)

#### High Voltage (HV) Transmission (66 kV - 220 kV)

#### Medium Voltage (MV) Transmission (11 kV - 66 kV)

The report has provided a detailed breakup and analysis of the market based on the voltage level. This includes extra high voltage (EHV) transmission (? 220 kV), high voltage (HV) transmission (66 kV - 220 kV), and medium voltage (MV) transmission (11 kV - 66 kV).

### End User Insights:

#### Utilities

#### Industrial Sector

#### Commercial Sector

A detailed breakup and analysis of the market based on the end user have also been provided in the report. This includes utilities, industrial sector, and commercial sector.

### 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 smart power transmission market performed so far and how will it perform in the coming years?

What is the breakup of the Mexico smart power transmission market on the basis of component?

What is the breakup of the Mexico smart power transmission market on the basis of technology?

What is the breakup of the Mexico smart power transmission market on the basis of voltage level?

What is the breakup of the Mexico smart power transmission market on the basis of end user?

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

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

What are the key driving factors and challenges in the Mexico smart power transmission?

What is the structure of the Mexico smart power transmission market and who are the

key players?

What is the degree of competition in the Mexico smart power transmission market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 MEXICO SMART POWER TRANSMISSION MARKET - INTRODUCTION**

- 4.1 Overview
- 4.2 Market Dynamics
- 4.3 Industry Trends
- 4.4 Competitive Intelligence

### **5 MEXICO SMART POWER TRANSMISSION MARKET LANDSCAPE**

- 5.1 Historical and Current Market Trends (2020-2025)
- 5.2 Market Forecast (2026-2034)

### **6 MEXICO SMART POWER TRANSMISSION MARKET - BREAKUP BY COMPONENT**

- 6.1 Transmission Towers and Conductors
  - 6.1.1 Overview
  - 6.1.2 Historical and Current Market Trends (2020-2025)
  - 6.1.3 Market Forecast (2026-2034)
- 6.2 Transformers and Substations
  - 6.2.1 Overview

6.2.2 Historical and Current Market Trends (2020-2025)

6.2.3 Market Forecast (2026-2034)

### 6.3 Sensors and IoT Devices

6.3.1 Overview

6.3.2 Historical and Current Market Trends (2020-2025)

6.3.3 Market Forecast (2026-2034)

### 6.4 Software and Data Analytics Solutions

6.4.1 Overview

6.4.2 Historical and Current Market Trends (2020-2025)

6.4.3 Market Forecast (2026-2034)

### 6.5 Communication Networks

6.5.1 Overview

6.5.2 Historical and Current Market Trends (2020-2025)

6.5.3 Market Forecast (2026-2034)

## **7 MEXICO SMART POWER TRANSMISSION MARKET - BREAKUP BY TECHNOLOGY**

### 7.1 Supervisory Control and Data Acquisition (SCADA) Systems

7.1.1 Overview

7.1.2 Historical and Current Market Trends (2020-2025)

7.1.3 Market Forecast (2026-2034)

### 7.2 Phasor Measurement Units (PMUs)

7.2.1 Overview

7.2.2 Historical and Current Market Trends (2020-2025)

7.2.3 Market Forecast (2026-2034)

### 7.3 Flexible AC Transmission Systems (FACTS)

7.3.1 Overview

7.3.2 Historical and Current Market Trends (2020-2025)

7.3.3 Market Forecast (2026-2034)

### 7.4 Advanced Metering Infrastructure (AMI)

7.4.1 Overview

7.4.2 Historical and Current Market Trends (2020-2025)

7.4.3 Market Forecast (2026-2034)

### 7.5 Smart Transformers

7.5.1 Overview

7.5.2 Historical and Current Market Trends (2020-2025)

7.5.3 Market Forecast (2026-2034)

### 7.6 High Voltage Direct Current (HVDC) Transmission

- 7.6.1 Overview
- 7.6.2 Historical and Current Market Trends (2020-2025)
- 7.6.3 Market Forecast (2026-2034)
- 7.7 Wide-Area Monitoring Systems (WAMS)
  - 7.7.1 Overview
  - 7.7.2 Historical and Current Market Trends (2020-2025)
  - 7.7.3 Market Forecast (2026-2034)

## **8 MEXICO SMART POWER TRANSMISSION MARKET - BREAKUP BY VOLTAGE LEVEL**

- 8.1 Extra High Voltage (EHV) Transmission (? 220 kV)
  - 8.1.1 Overview
  - 8.1.2 Historical and Current Market Trends (2020-2025)
  - 8.1.3 Market Forecast (2026-2034)
- 8.2 High Voltage (HV) Transmission (66 kV - 220 kV)
  - 8.2.1 Overview
  - 8.2.2 Historical and Current Market Trends (2020-2025)
  - 8.2.3 Market Forecast (2026-2034)
- 8.3 Medium Voltage (MV) Transmission (11 kV - 66 kV)
  - 8.3.1 Overview
  - 8.3.2 Historical and Current Market Trends (2020-2025)
  - 8.3.3 Market Forecast (2026-2034)

## **9 MEXICO SMART POWER TRANSMISSION MARKET - BREAKUP BY END USER**

- 9.1 Utilities
  - 9.1.1 Overview
  - 9.1.2 Historical and Current Market Trends (2020-2025)
  - 9.1.3 Market Forecast (2026-2034)
- 9.2 Industrial Sector
  - 9.2.1 Overview
  - 9.2.2 Historical and Current Market Trends (2020-2025)
  - 9.2.3 Market Forecast (2026-2034)
- 9.3 Commercial Sector
  - 9.3.1 Overview
  - 9.3.2 Historical and Current Market Trends (2020-2025)
  - 9.3.3 Market Forecast (2026-2034)

## **10 MEXICO SMART POWER TRANSMISSION MARKET – BREAKUP BY REGION**

### **10.1 Northern Mexico**

- 10.1.1 Overview
- 10.1.2 Historical and Current Market Trends (2020-2025)
- 10.1.3 Market Breakup by Component
- 10.1.4 Market Breakup by Technology
- 10.1.5 Market Breakup by Voltage Level
- 10.1.6 Market Breakup by End User
- 10.1.7 Key Players
- 10.1.8 Market Forecast (2026-2034)

### **10.2 Central Mexico**

- 10.2.1 Overview
- 10.2.2 Historical and Current Market Trends (2020-2025)
- 10.2.3 Market Breakup by Component
- 10.2.4 Market Breakup by Technology
- 10.2.5 Market Breakup by Voltage Level
- 10.2.6 Market Breakup by End User
- 10.2.7 Key Players
- 10.2.8 Market Forecast (2026-2034)

### **10.3 Southern Mexico**

- 10.3.1 Overview
- 10.3.2 Historical and Current Market Trends (2020-2025)
- 10.3.3 Market Breakup by Component
- 10.3.4 Market Breakup by Technology
- 10.3.5 Market Breakup by Voltage Level
- 10.3.6 Market Breakup by End User
- 10.3.7 Key Players
- 10.3.8 Market Forecast (2026-2034)

### **10.4 Others**

- 10.4.1 Historical and Current Market Trends (2020-2025)
- 10.4.2 Market Forecast (2026-2034)

## **11 MEXICO SMART POWER TRANSMISSION MARKET – COMPETITIVE LANDSCAPE**

- 11.1 Overview
- 11.2 Market Structure
- 11.3 Market Player Positioning

- 11.4 Top Winning Strategies
- 11.5 Competitive Dashboard
- 11.6 Company Evaluation Quadrant

## **12 PROFILES OF KEY PLAYERS**

- 12.1 Company A
  - 12.1.1 Business Overview
  - 12.1.2 Products Offered
  - 12.1.3 Business Strategies
  - 12.1.4 SWOT Analysis
  - 12.1.5 Major News and Events
- 12.2 Company B
  - 12.2.1 Business Overview
  - 12.2.2 Products Offered
  - 12.2.3 Business Strategies
  - 12.2.4 SWOT Analysis
  - 12.2.5 Major News and Events
- 12.3 Company C
  - 12.3.1 Business Overview
  - 12.3.2 Products Offered
  - 12.3.3 Business Strategies
  - 12.3.4 SWOT Analysis
  - 12.3.5 Major News and Events
- 12.4 Company D
  - 12.4.1 Business Overview
  - 12.4.2 Products Offered
  - 12.4.3 Business Strategies
  - 12.4.4 SWOT Analysis
  - 12.4.5 Major News and Events
- 12.5 Company E
  - 12.5.1 Business Overview
  - 12.5.2 Products Offered
  - 12.5.3 Business Strategies
  - 12.5.4 SWOT Analysis
  - 12.5.5 Major News and Events

## **13 MEXICO SMART POWER TRANSMISSION MARKET - INDUSTRY ANALYSIS**

## 13.1 Drivers, Restraints, and Opportunities

### 13.1.1 Overview

### 13.1.2 Drivers

### 13.1.3 Restraints

### 13.1.4 Opportunities

## 13.2 Porters Five Forces Analysis

### 13.2.1 Overview

### 13.2.2 Bargaining Power of Buyers

### 13.2.3 Bargaining Power of Suppliers

### 13.2.4 Degree of Competition

### 13.2.5 Threat of New Entrants

### 13.2.6 Threat of Substitutes

## 13.3 Value Chain Analysis

## 14 APPENDIX

## I would like to order

Product name: Mexico Smart Power Transmission Market Size, Share, Trends and Forecast by Component, Technology, Voltage Level, End User, and Region, 2026-2034

Product link: <https://marketpublishers.com/r/M17D3C12B6E7EN.html>

Price: US\$ 2,999.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M17D3C12B6E7EN.html>