

# U.S. Flexible AC Transmission Systems Market Size, Share & Trends Analysis Report By Technology (Series, Shunt), By End Use (Transmission Lines, Industrial), By Region, And Segment Forecasts, 2025 - 2033

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## Abstracts

The U.S. flexible AC transmission systems market size was estimated at USD 378.8 million in 2024 and is projected to reach USD 520.4 million by 2033, growing at a CAGR of 3.6% from 2025 to 2033. The market is expanding steadily, supported by rising investments in grid modernization, increasing penetration of renewable energy, and the need to improve transmission efficiency across aging infrastructure.

As utilities manage greater variability from solar, wind, and distributed energy resources, FACTS technologies play a critical role in dynamic voltage regulation, power quality enhancement, and boosting transmission capacity without requiring substantial new line construction. Advancements in power electronics, particularly VSC-based STATCOM and hybrid systems, are enhancing responsiveness, reducing operational costs, and promoting the adoption of FACTS across major transmission corridors. Federal and state-level initiatives aimed at renewable energy integration, grid resilience, and smart grid development continue to accelerate market deployment. Regulatory measures, such as FERC orders supporting transmission upgrades, combined with interconnection reforms, are driving the wider adoption of FACTS by utilities and transmission operators. Regional transmission organizations (RTOs) and independent system operators (ISOs), including PJM, CAISO, ERCOT, and MISO, are increasingly integrating FACTS devices to address congestion, voltage instability, and dynamic power flow challenges.

In addition, the growing involvement of private engineering firms and technology

providers is fostering innovation and expanding competition in the U.S. market. As the country transitions toward a more decentralized and decarbonized power ecosystem, FACTS technologies are expected to play a crucial role in ensuring system reliability, operational flexibility, and efficient integration of renewable energy.

## U.S. Flexible AC Transmission Systems (FACTS) Market Report Segmentation

This report forecasts revenue growth at country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. flexible ac transmission systems (FACTS) market report based on technology, end use, and region:

Technology Outlook (Revenue, USD Million, 2021 - 2033)

Series Compensation

Shunt Compensation

Combined Compensation

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Transmission Lines

Distribution Networks

Industrial

Renewable Energy Integration

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