

# Phase Shifting Transformer Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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## Abstracts

The Global Phase Shifting Transformer Market, valued at USD 172.4 million in 2024, is set to grow at a steady CAGR of 6.6% from 2025 to 2034. This growth can be largely attributed to the increasing reliance on renewable energy sources such as wind and solar power. As these energy sources become more prevalent, they introduce challenges in grid stability due to their intermittent nature. PSTs are vital for managing power flows across different grid sections, alleviating congestion, and stabilizing voltage levels. This makes them indispensable in modernizing the electrical grid infrastructure. With aging grid systems in need of urgent upgrades and industrialization ramping up in many regions, the demand for PSTs continues to rise. These transformers are essential for ensuring the efficiency and reliability of power distribution networks, particularly in regions transitioning to a more renewable-based energy mix. As the demand for electricity rises and grid complexities increase, the need for advanced power management systems like PSTs becomes even more pressing.

The below 400 MVA segment of the PST market is anticipated to generate USD 65.7 million by 2034. Smaller PSTs, below 400 MVA, are gaining traction due to their role in enhancing the flexibility and stability of distribution grids, especially in urban areas with high population density. As local grids face increased electricity demand, the deployment of these smaller transformers allows utilities to balance power distribution more effectively and maintain stable voltage levels. These transformers play a key role in preventing grid overloads while ensuring that the power supply remains reliable and consistent for urban populations.

The utility sector is expected to experience significant expansion in the PST market, projected to grow at a CAGR of 5.7% through 2034. Utility-scale phase-shifting

transformers are indispensable for controlling large-scale power flows across transmission networks. These transformers are pivotal in preventing congestion, managing load imbalances, and ensuring overall grid stability. As electrical grids become more complex and demand for energy grows, PSTs offer utilities the flexibility to adapt to fluctuations in power supply and demand. The integration of renewable energy sources, known for their variable outputs, further drives the necessity for these transformers, which help stabilize the grid and smooth out variations in power supply, ensuring consistent energy distribution.

In the U.S., the PST market is projected to reach USD 32.5 million by 2034. With much of the U.S. electrical grid aging, utilities are prioritizing grid modernization efforts. Phase-shifting transformers are a critical part of this transition, offering enhanced control of power flows, reducing grid bottlenecks, and improving the reliability of the power system. As renewable energy continues to take a larger share of the U.S. energy mix, PSTs are becoming increasingly essential for optimizing grid operations and meeting the nation's goals for a resilient and adaptable power grid.

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