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Oil Immersed Single Phase Shunt Reactor Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 to 2032

https://marketpublishers.com/r/O7F533134FF7EN.html
Date: October 2024
Pages: 70
Price: US$ 4,850.00 (Single User License)
ID: O7F533134FF7EN

Abstracts

The Global Oil Immersed Single Phase Shunt Reactor Market is projected to expand at a 4.1% CAGR from 2024 to 2032, following its valuation of USD 249.9 million in 2023. This growth is primarily driven by increasing electricity demand, the need for reliable power transmission, and investments in grid infrastructure modernization, especially in emerging economies. As countries expand grid infrastructure to support growing electricity consumption, the adoption of shunt reactors is rising to enhance efficiency in high-voltage transmission lines and maintain voltage stability over long distances. In addition to supporting power transmission, oil-immersed shunt reactors are increasingly in demand for renewable energy integration, as these sources require effective reactive power compensation. The focus on reducing transmission losses and enhancing grid stability has become essential, with modernization initiatives and government support driving steady adoption of shunt reactors globally.

Regions such as Asia-Pacific, Europe, and North America are key growth areas, where substantial investments in renewable energy and grid expansion projects are anticipated to boost market demand. The fixed shunt reactor segment is projected to exceed USD 200 million by 2032 due to rising grid infrastructure investments and the need for voltage stability in high-voltage networks. Fixed shunt reactors are preferred for their efficiency in managing reactive power and minimizing transmission losses, making them a vital asset in modernizing grids. Additionally, the growth of renewable energy integration—requiring more precise voltage control—and the modernization of aging infrastructure contribute significantly to the demand for fixed shunt reactors.

The electric utility sector is anticipated to achieve a CAGR of over 2.5% through 2032, supported by ongoing investments in grid expansion and modernization to meet

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increasing electricity demand. Utilities are increasingly implementing shunt reactors to stabilize voltage and reduce losses in long-distance, high-voltage networks. Efforts to improve energy efficiency and upgrade outdated infrastructure further accelerate the adoption of oil-immersed shunt reactors across this sector. In the U.S., the oil-immersed single-phase shunt reactor market is projected to surpass USD 40 million by 2032. With growing interest in grid modernization and efficient power transmission, demand for these reactors is bolstered by efforts to regulate voltage effectively and support long-distance transmission.

Government programs focused on enhancing the resilience and reliability of the power grid, alongside initiatives to update aging infrastructure and integrate renewable energy, are expected to fuel steady growth in the U.S. market. Meanwhile, in the Asia-Pacific region, rapid urbanization, rising electricity demand, and substantial grid investments create strong growth potential. The increased emphasis on integrating renewable energy sources, along with initiatives to update aging grid systems, is further driving oil-immersed shunt reactors demand in this region.

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