

# **Asia Pacific Power Transformers Market By Power Rating (Small, Medium and Large), By Cooling Type (Air-Cooled and Oil-Cooled), By Insulation (Dry and Liquid Immersed), By Cooling Type (Commercial & Residential, Utility, Industrial), By Country, By Competition Forecast & Opportunities, 2018-2028**

<https://marketpublishers.com/r/A857A5825F25EN.html>

Date: October 2023

Pages: 132

Price: US\$ 4,000.00 (Single User License)

ID: A857A5825F25EN

## **Abstracts**

The Asia Pacific Power Transformers Market was valued at USD 2.85 billion in 2022 and is growing at a CAGR of 6.38% during the forecast period. The market for electricity is driven by factors such as increased demand, the need for upgraded transmission networks and smart grids, and the growing share of renewable and non-conventional energy resources. Additionally, strict government regulations, high costs of power transformers, and technological barriers also influence the market. These factors collectively create growth opportunities, although the high price of power transformers hinders growth.

### **Key Market Drivers**

#### **Increasing Demand for Electricity in Asia Pacific**

The Asia Pacific region has witnessed substantial economic growth and urbanization in recent decades, leading to a significant surge in electricity demand. This upswing in power consumption is driven by various factors, including population expansion, industrialization, and improving living standards. As more individuals migrate from rural to urban areas, the necessity for dependable and efficient electrical infrastructure becomes paramount.

One of the primary drivers for the Asia Pacific power transformer market is the increasing need to upgrade and expand the existing power infrastructure to meet the escalating electricity demand. Power transformers play a critical role in efficiently transmitting and distributing electricity from power generation sources to end-users. Utilities and governments across the region are making substantial investments in grid expansion and modernization projects to ensure a stable and uninterrupted power supply.

Moreover, power transformers are vital for integrating renewable energy sources into the grid, in addition to meeting the augmented electricity demand. Numerous countries in the Asia Pacific region are embracing renewable energy technologies such as wind and solar power to reduce their carbon footprint and achieve environmental targets. Power transformers are indispensable for connecting these intermittent renewable sources to the grid and ensuring a seamless and reliable power supply.

Furthermore, electrification of various sectors including transportation and heating is gaining momentum in the region. Electric vehicles (EVs) and electric heating systems are becoming increasingly popular, further driving up electricity consumption. To support this electrification trend, investments in power transformers are imperative to handle the increased load and maintain grid stability.

In conclusion, the escalating electricity demand in the Asia Pacific region, propelled by population growth, urbanization, and the adoption of electrification and renewable energy, serves as a significant driver for the power transformer market. The requirement for reliable and efficient power transmission and distribution infrastructure is compelling governments and utilities to invest in power transformers, making it a lucrative market in the region.

### Grid Modernization Initiatives

The Asia Pacific power transformer market is currently witnessing substantial growth due to the ongoing grid modernization initiatives undertaken by governments and utilities across the region. Grid modernization entails the integration of advanced technologies and equipment to enhance the efficiency, reliability, and resilience of the electrical grid. Power transformers play a pivotal role in these initiatives and serve as essential components of modernized power systems.

A key driving factor for the power transformer market in Asia Pacific is the imperative to upgrade aging infrastructure. Many countries in the region are burdened with outdated

power transmission and distribution networks that are susceptible to outages and inefficiencies. To address these challenges, governments and utilities are investing in the replacement of old transformers with newer, more efficient models capable of handling higher voltage levels and offering improved grid management capabilities.

Furthermore, the adoption of smart grid technologies is gaining momentum in Asia Pacific. Smart grids rely on advanced sensors, communication networks, and data analytics to optimize the flow of electricity, reduce losses, and enhance grid resilience. Power transformers equipped with monitoring and control capabilities are critical components of smart grids, enabling real-time monitoring and remote operation. This trend is fueling the demand for intelligent power transformers in the region.

Another significant driver for the power transformer market is the integration of renewable energy sources. Many countries in Asia Pacific are actively pursuing renewable energy targets to reduce carbon emissions and combat climate change. Wind and solar power generation, which can be intermittent, require sophisticated grid infrastructure and power transformers to ensure seamless integration into the existing grid. Consequently, there is a growing need for power transformers that can handle variable and distributed energy sources.

In conclusion, the ongoing grid modernization initiatives in Asia Pacific, driven by the necessity for infrastructure upgrades, the adoption of smart grid technologies, and the integration of renewable energy sources, serve as significant drivers for the power transformer market. These initiatives are essential for ensuring a reliable and resilient electrical grid in the face of increasing electricity demand and environmental concerns.

### Rapid Industrialization and Urbanization

The Asia Pacific region is currently witnessing rapid industrialization and urbanization, which serves as a significant catalyst for the power transformer market in the area. As countries in the region continue to develop and expand their industrial and urban sectors, the demand for electrical power for various applications, including manufacturing, commercial buildings, and infrastructure development, is experiencing a remarkable surge.

One of the primary drivers behind this growth is the expansion of the manufacturing sector. Several Asian countries have emerged as manufacturing hubs for diverse industries, such as automotive, electronics, and textiles. These industries rely heavily on a consistent and reliable power supply to ensure efficient operations. Power

transformers play a critical role in stepping up or stepping down voltage levels, thereby ensuring a stable and uninterrupted electricity supply to industrial facilities.

Furthermore, the rapid urbanization in the Asia Pacific region has led to the construction of numerous commercial and residential buildings. This increased construction activity has resulted in a higher demand for electrical power to support lighting, heating, cooling, and other electrical systems within these structures. Power transformers are indispensable for distributing electricity from the grid to these urban areas and effectively managing the load.

Moreover, the ongoing infrastructure development projects, such as airports, railways, and ports, also contribute to the growing demand for power transformers. These projects require substantial electrical infrastructure to power various systems and equipment, and power transformers are pivotal components in meeting these energy requirements.

Additionally, the electrification of public transportation systems, including the expansion of metro rail networks and the adoption of electric buses, is gaining momentum in many Asian cities. Power transformers are essential for powering and ensuring the reliability and efficiency of these transportation systems.

To summarize, the power transformer market in the Asia Pacific region is being propelled by the rapid industrialization and urbanization taking place. The increasing demand for electricity in the manufacturing, commercial, and infrastructure sectors, along with the electrification of public transportation, is creating a robust market for power transformers in the region. As Asian economies continue to grow, the need for dependable and efficient electrical infrastructure will undoubtedly remain a driving force in the power transformer market.

## Key Market Challenges

### Aging Infrastructure and Replacement Costs

One of the key challenges confronting the Asia Pacific power transformer market is the aging infrastructure of existing transformers and the associated costs of replacement. Numerous countries in the region are operating power transformers that have been in service for several decades, nearing the end of their operational life. As transformers age, their efficiency declines and failure rates increase, resulting in power outages and disruptions.

This challenge presents a dual aspect. Firstly, there is a necessity for comprehensive assessment and inspection of the existing transformer fleet to identify those requiring replacement. This process can be both time-consuming and costly. Secondly, the financial burden of replacing outdated transformers with modern, efficient models poses a significant challenge for utilities and governments. Power transformers are costly assets, and their replacement necessitates substantial capital investment.

Moreover, in certain instances, transformer replacement may also entail upgrades to other components of the electrical grid to accommodate the new equipment, thereby adding to the overall project cost. Striking a balance between the need for replacement and budgetary constraints presents a complex challenge that must be addressed by the Asia Pacific power transformer market.

Addressing this challenge may include implementing proactive maintenance strategies to extend the lifespan of transformers, exploring financing options for replacement projects, and prioritizing replacements based on criticality and efficiency gains. It also requires collaboration among governments, utilities, and manufacturers to identify cost-effective solutions for transformer replacement.

### Regulatory and Environmental Compliance

The Asia Pacific power transformer market encounters challenges associated with regulatory compliance and environmental considerations. Governments in the region are increasingly prioritizing energy efficiency, environmental sustainability, and safety standards for electrical infrastructure, specifically power transformers.

One of the primary challenges is staying abreast of evolving regulations and standards. Different countries in Asia Pacific may have diverse regulatory requirements for power transformers, encompassing energy efficiency standards, safety codes, and environmental compliance regulations. Manufacturers must allocate resources to research and development to design and manufacture transformers that meet these varying regulatory demands, which can be intricate and costly.

Environmental concerns also play a substantial role. Power transformers contain insulating oils, which can pose environmental risks if not managed properly. Many countries are imposing stricter regulations on the use, disposal, and recycling of transformer oils to minimize their environmental impact. Manufacturers and utilities must adapt to these regulations by utilizing environmentally friendly insulating materials and

implementing effective waste management practices.

Another challenge lies in the necessity to reduce greenhouse gas emissions associated with power transformers. Certain older transformers employ insulating oils that contain high levels of potent greenhouse gases, such as sulfur hexafluoride (SF<sub>6</sub>). SF<sub>6</sub> is a significant contributor to global warming, and there is mounting pressure to phase out its utilization. Effectively transitioning to alternative insulating materials and designs that minimize greenhouse gas emissions entails technical and regulatory hurdles.

To overcome these challenges, the power transformer industry in Asia Pacific must invest in research and development endeavors to create more environmentally friendly and energy-efficient transformers. Collaborating with regulatory authorities to establish clear and standardized guidelines can also facilitate streamlined compliance efforts.

### Supply Chain Disruptions and Raw Material Costs

The Asia Pacific power transformer market is confronted with challenges related to disruptions in the supply chain and fluctuating costs of raw materials. With the increasing interconnectedness of the global supply chain, any disturbances in one part of the world can have far-reaching impacts on industries across the Asia Pacific region.

One notable challenge pertains to the availability and cost of crucial raw materials used in transformer manufacturing. Copper, aluminum, steel, and various insulating materials are essential components of transformers. The prices of these raw materials can be volatile due to factors such as global demand, trade tensions, and interruptions in supply. Sudden increases in raw material costs can significantly affect the production expenses of transformers, potentially leading to higher prices for customers.

Supply chain disruptions, whether caused by natural disasters, political instability, or global health crises like the COVID-19 pandemic, can impede the timely delivery of transformer components and finished products. Delays in production and delivery can impact project timelines and the ability to meet customer demand, resulting in financial losses and customer dissatisfaction.

To address these challenges, companies operating in the Asia Pacific power transformer market must diversify their supply chains, strategically source raw materials, and implement risk mitigation strategies. Collaboration with suppliers to ensure a stable and secure supply chain is of utmost importance. Furthermore, investment in research and development to explore alternative materials or

manufacturing processes that reduce reliance on volatile raw materials can help mitigate cost fluctuations.

In conclusion, the Asia Pacific power transformer market faces significant challenges including aging infrastructure and replacement costs, regulatory and environmental compliance, as well as supply chain disruptions and raw material costs. Addressing these challenges necessitates collaboration, innovation, and adaptability to meet the growing demand for reliable and efficient electrical infrastructure in the region.

## Key Market Trends

### Integration of Smart Technologies in Power Transformers

The Asia Pacific power transformer market is witnessing a notable trend in the integration of smart technologies into transformer design and operation. Smart transformers, also known as intelligent or digital transformers, are equipped with advanced sensors, communication capabilities, and data analytics tools that facilitate real-time monitoring, control, and optimization of transformer performance.

One of the driving factors behind this trend is the increasing necessity for grid modernization. Numerous countries in the Asia Pacific region are investing in upgrading their electrical grids to enhance efficiency, reliability, and resilience. Smart transformers play a pivotal role in this modernization process by providing utilities with real-time insights into transformer condition, load management, and fault detection. These capabilities enhance grid stability, reducing downtime and ultimately benefiting consumers.

Another crucial driver for the adoption of smart transformers is the integration of renewable energy sources. The Asia Pacific region has been rapidly expanding its renewable energy capacity, encompassing solar and wind power. Smart transformers effectively manage the intermittent nature of renewable energy sources by adjusting voltage levels and ensuring seamless integration into the grid. This trend aligns with the region's commitment to reducing carbon emissions and achieving sustainable energy goals.

Additionally, the rise of electric vehicles (EVs) in Asia Pacific is influencing the adoption of smart transformers. EV charging infrastructure requires transformers capable of handling variable loads and providing real-time data on energy consumption. Smart transformers enable grid operators to effectively monitor and manage EV charging

stations, ensuring reliable power supply to meet the growing demand for electric transportation.

In conclusion, the integration of smart technologies into power transformers is a prominent trend in the Asia Pacific market. This trend addresses the imperative for grid modernization, the integration of renewable energy sources, and the growth of electric mobility, all of which are integral components of the region's evolving energy landscape.

### Eco-Friendly and Energy-Efficient Transformer Designs

Another notable trend in the Asia Pacific power transformer market is the increasing focus on environmentally friendly and energy-efficient transformer designs. The industry is driven by environmental concerns and sustainability objectives, pushing for the development of transformers that minimize energy losses, reduce greenhouse gas emissions, and utilize eco-friendly materials.

A key driver of this trend is the need to reduce the environmental impact of transformer insulating oils. Traditionally, transformers have relied on oils containing sulfur hexafluoride (SF<sub>6</sub>), a potent greenhouse gas. However, there is mounting pressure to phase out SF<sub>6</sub> due to its high global warming potential. Manufacturers in the Asia Pacific region are actively exploring alternative insulating materials and designs that have a lower environmental impact, such as biodegradable oils and dry-type transformers.

Energy efficiency is also a crucial aspect of this trend. Power transformers play a vital role in electrical grids, and any improvement in their energy efficiency can result in significant energy savings. Utilities and governments in Asia Pacific are implementing more stringent energy efficiency standards, prompting manufacturers to develop transformers with reduced core and copper losses. These high-efficiency transformers minimize energy wastage and operating costs for end-users.

Moreover, transformer designs are evolving to accommodate distributed energy resources (DERs) and microgrids. As Asia Pacific countries embrace DERs like rooftop solar panels and small-scale wind turbines, transformers are being developed with the capability to manage bidirectional power flows. This allows excess energy to be fed back into the grid or distributed locally within microgrids.

In summary, the Asia Pacific power transformer market is experiencing a shift towards environmentally friendly and energy-efficient designs to meet regulatory requirements

and fulfill the region's commitment to sustainability and energy conservation.

## Segmental Insights

### Cooling Type Insights

The Air-Cooled segment holds a significant market share in the Asia Pacific Power Transformers Market. The adoption of smart grid technologies and intelligent transformers is exerting influence on the air-cooled transformer segment. These transformers are equipped with sensors and monitoring systems that facilitate real-time data collection and remote operation. This trend is primarily driven by the imperative for efficient grid management and fault detection, particularly in areas prone to extreme weather conditions.

The adoption of air-cooled transformers may vary across countries in the Asia Pacific region. In countries abundant in water resources, liquid-immersed transformers may still dominate the market. However, in arid regions or areas susceptible to flooding, air-cooled transformers offer a reliable alternative. Geographical factors, climate conditions, and regulatory requirements can exert influence on market dynamics within specific countries.

Manufacturers in the air-cooled transformer segment are investing in research and development to enhance transformer design, reduce losses, and improve cooling efficiency. These innovations aim to meet the escalating demand for energy-efficient and environmentally friendly transformers.

In conclusion, the air-cooled segment of the Asia Pacific power transformer market is witnessing growth due to factors such as the need for dependable power supply in remote areas, energy efficiency requirements, and the adoption of smart technologies. As industries expand and environmental considerations gain prominence, air-cooled transformers are poised to play a significant role in fulfilling the region's electrical infrastructure needs.

### Insulation Insights

The Liquid Immersed segment holds a significant market share in the Asia Pacific Power Transformers Market. The integration of renewable energy sources, like wind and solar power, into the electrical grid is gaining traction in the Asia Pacific region. Liquid-immersed transformers play a crucial role in connecting renewable energy

generation facilities to the grid, regulating voltage levels, and ensuring a reliable power supply. With countries in the region investing in renewable energy, the market for these transformers is expected to witness further growth.

Asia Pacific is home to numerous industrial hubs and manufacturing facilities where liquid-immersed transformers are vital for powering heavy industries, including steel, petrochemicals, automotive, and more. The growth of these industries drives the demand for higher-capacity transformers to meet their energy requirements. Manufacturers in the liquid-immersed transformer segment continuously innovate to enhance transformer designs, reduce losses, and improve overall performance. Advancements in materials, insulation, and cooling techniques aim to increase efficiency and reliability.

Environmental regulations, encompassing standards for insulating oils and emissions, influence the design and manufacturing of liquid-immersed transformers in the Asia Pacific region. Manufacturers must adhere to these environmental standards while ensuring the safety and performance of the transformers.

### Country Insights

China is expected to dominate the market during the forecast period. China is recognized as one of the largest markets for power transformers in the Asia Pacific region. The country's extensive industrialization, urbanization, and population growth have resulted in a strong demand for electricity. To meet this demand, China has consistently invested in its electrical infrastructure, including power transformers. The market is experiencing significant growth, driven by grid expansion, grid modernization, and the integration of renewable energy sources.

China has undertaken ambitious grid modernization initiatives to enhance the efficiency and reliability of its electrical grid. This includes the deployment of smart transformers equipped with advanced monitoring and control capabilities. The adoption of smart grid technologies in China is fueling the demand for intelligent transformers that can efficiently manage power flows, detect faults, and enable real-time grid management.

China has emerged as a global leader in the adoption of renewable energy, particularly in solar and wind power. The integration of renewable energy sources into the grid requires the use of power transformers to ensure a stable and seamless flow of electricity. As China continues to invest in renewable energy projects, there is an increasing demand for power transformers capable of handling variable and distributed

energy sources.

China is actively promoting electrification across various sectors, including transportation. The growth of electric vehicles (EVs) and the expansion of charging infrastructure necessitate significant investments in power transformers to accommodate the increased load. China's commitment to reducing carbon emissions is driving the transition to electric mobility, thereby further boosting the power transformer market.

China has established itself as a pioneer in the development and deployment of high-voltage direct current (HVDC) transmission technology. HVDC transformers play a crucial role in long-distance, high-capacity power transmission, which is essential for transmitting electricity from remote renewable energy sources to urban centers. China's leadership in HVDC technology presents opportunities for both domestic and international transformer manufacturers.

#### Key Market Players

Eaton Corporation Plc.

Schneider Electric.

Siemens AG.

ABB Ltd.

Toshiba Corporation.

Mitsubishi Electric Corporation.

CG Power and Industrial Solutions Ltd.

General Electric

Kirloskar Electric Co. Ltd.

SGB-SMIT

#### Report Scope:

*Asia Pacific Power Transformers Market By Power Rating (Small, Medium and Large), By Cooling Type (Air-Cooled...*

In this report, the Asia Pacific Power Transformers Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Asia Pacific Power Transformers Market, By Power Rating:

Small

Medium

Large

Asia Pacific Power Transformers Market, By Cooling Type:

Air-Cooled

Oil-Cooled

Asia Pacific Power Transformers Market, By Insulation:

Dry

Liquid Immersed

Asia Pacific Power Transformers Market, By Application:

Commercial & Residential

Utility

Industrial

Asia Pacific Power Transformers Market, By Country:

China

Japan

India

South Korea

Australia

Vietnam

Indonesia

Singapore

Philippines

Malaysia

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Asia Pacific Power Transformers Market.

## Available Customizations:

Asia Pacific Power Transformers Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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