

Asia Pacific Dry Type Transformer Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

Asia Pacific Dry Type Transformer Market, valued at USD 8.3 billion in 2024, is poised to expand at a robust CAGR of 8.5% from 2025 to 2034. This growth can be attributed to several key factors, including rapid urbanization, large-scale infrastructure projects, and an increasing demand for energy-efficient and safer electrical systems. Unlike traditional oil-filled transformers, dry-type transformers rely on air for cooling, which significantly reduces fire risks, environmental impact, and maintenance costs. As urban areas become more congested and industrial expansion accelerates across the region, dry-type transformers are quickly emerging as the ideal solution for densely populated zones.

The region's commitment to sustainability, energy conservation, and improved environmental practices is further driving the shift toward these energy-efficient transformers. Dry-type transformers offer exceptional operational efficiency, making them suitable for a wide range of applications, particularly in locations subject to extreme weather conditions. Their ability to perform well in various climatic environments, combined with their low environmental impact, positions them as a preferred alternative to oil-cooled models in an increasingly eco-conscious world.

The market is segmented by core type into closed, shell, and berry configurations. The closed-core type is projected to reach USD 9.2 billion by 2034. The growing preference for closed dry-type transformers is largely due to their enhanced safety features and minimal environmental impact. These transformers are equipped with superior insulation and protective systems that significantly reduce the risk of fires, oil leaks, and contamination, making them ideal for both residential and industrial applications.

The market is also segmented by application, including industries, renewable energy generation, inner-city substations, indoor/underground substations, and more. The industrial segment is expected to see significant growth at a CAGR of 8.5% through 2034. This expansion is driven by increasing industrialization, advancements in transformer technology, and the heightened demand for environmentally friendly and energy-efficient power distribution solutions. The sealed casing design of closed dry-type transformers, which prevents contamination and environmental damage, further increases their adoption in both industrial and urban environments.

China is expected to dominate the market, with its dry-type transformer sector projected to generate USD 5.1 billion by 2034. The country's focus on energy efficiency and environmental sustainability and its ongoing efforts to transition to greener energy systems have spurred the adoption of advanced power distribution technologies. These efforts are in line with China's broader environmental goals, which include reducing carbon emissions and promoting sustainable growth. The dry-type transformer market is thus well-positioned to thrive as China and other nations in the region work toward building more resilient, energy-efficient infrastructure.

Contents

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculation
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid
 - 1.4.2.2 Public

CHAPTER 2 INDUSTRY INSIGHTS

- 2.1 Industry ecosystem analysis
- 2.2 Regulatory landscape
- 2.3 Industry impact forces
 - 2.3.1 Growth drivers
 - 2.3.2 Industry pitfalls & challenges
- 2.4 Growth potential analysis
- 2.5 Porter's analysis
 - 2.5.1 Bargaining power of suppliers
 - 2.5.2 Bargaining power of buyers
 - 2.5.3 Threat of new entrants
 - 2.5.4 Threat of substitutes
- 2.6 PESTEL analysis

CHAPTER 3 COMPETITIVE LANDSCAPE, 2024

- 3.1 Strategic dashboard
- 3.2 Innovation & sustainability landscape

CHAPTER 4 MARKET SIZE AND FORECAST, BY CORE, 2021 – 2034 ('000 UNITS & USD MILLION)

- 4.1 Key trends
- 4.2 Closed
- 4.3 Shell

4.4 Berry

CHAPTER 5 MARKET SIZE AND FORECAST, BY TECHNOLOGY, 2021 – 2034 (‘000 UNITS & USD MILLION)

5.1 Key trends

5.2 Self air

5.3 Air blast

CHAPTER 6 MARKET SIZE AND FORECAST, BY INSULATION, 2021 – 2034 (‘000 UNITS & USD MILLION)

6.1 Key trends

6.2 Class R

6.3 Class H

6.4 Class F

6.5 Class B

6.6 Class A

CHAPTER 7 MARKET SIZE AND FORECAST, BY PRODUCT, 2021 – 2034 (‘000 UNITS & USD MILLION)

7.1 Key trends

7.2 Open wound

7.3 Cast resin

7.4 Vacuum pressure impregnated

7.5 Vacuum pressure encapsulated

CHAPTER 8 MARKET SIZE AND FORECAST, BY WINDING, 2021 – 2034 (‘000 UNITS & USD MILLION)

8.1 Key trends

8.2 Two winding

8.3 Auto transformer

CHAPTER 9 MARKET SIZE AND FORECAST, BY RATING, 2021 – 2034 (‘000 UNITS & USD MILLION)

9.1 Key trends

9.2 ? 5 MVA

9.3 > 5 MVA to ? 30 MVA

9.4 > 30 MVA

CHAPTER 10 MARKET SIZE AND FORECAST, BY MOUNTING, 2021 – 2034 ('000 UNITS & USD MILLION)

10.1 Key trends

10.2 Pad

10.3 Pole

10.4 Others

CHAPTER 11 MARKET SIZE AND FORECAST, BY APPLICATION, 2021 – 2034 ('000 UNITS & USD MILLION)

11.1 Key trends

11.2 Industries

11.3 Inner-city substations

11.4 Indoor/underground substations

11.5 Renewable generation

11.6 Others

CHAPTER 12 MARKET SIZE AND FORECAST, BY COUNTRY, 2021 – 2034 ('000 UNITS & USD MILLION)

12.1 Key trends

12.2 China

12.3 Japan

12.4 South Korea

12.5 India

12.6 Australia

CHAPTER 13 COMPANY PROFILES

13.1 ABB

13.2 Bharat Heavy Electricals

13.3 CG Power

13.4 Eaton

13.5 Fuji Electric

- 13.6 General Electric
- 13.7 Hitachi Energy
- 13.8 Raychem RPG
- 13.9 Schneider Electric
- 13.10 Siemens Energy
- 13.11 TMC Transformers
- 13.12 Toshiba Energy Systems
- 13.13 URJA Techniques
- 13.14 WEG

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