

Oil Filled Transformer Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

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Abstracts

The Global Oil Filled Transformer Market, valued at USD 40.7 billion in 2023, is expected to experience a CAGR of 6.7% between 2024 and 2032. This expansion is fueled by the rising demand for electricity driven by urbanization and industrial growth. Oil filled transformers are highly regarded for their exceptional chilling and insulation capacities, making them ideal for high-capacity applications. In addition, the increasing shift towards renewable energy sources, advancements in environmentally friendly insulating oils, and stricter regulatory standards focused on energy efficiency and grid reliability contribute to the market's positive outlook.

The shell core oil-filled transformer segment is poised to become a major driver within the industry, with expectations to surpass USD 26.2 billion by 2032. This growth is attributed to the increasing demand for energy-efficient solutions in power transmission and distribution. Shell core transformers are known for their robustness, durability, and superior thermal performance, which makes them suitable for heavy-duty operations. Their ability to handle diverse power inputs from expanding renewable energy projects and grid modernization efforts further boosts their market appeal. The adoption of advanced monitoring systems to optimize performance and efficiency is also supporting the growth of this segment.

The distribution transformer segment is anticipated to grow at a rate of over 7.5% annually through 2032. This expansion is driven by the demand for reliable power delivery systems in urban areas, as well as increasing electricity consumption across residential, commercial, and industrial sectors. Distribution transformers help stabilize voltage and improve grid efficiency. Besides, the push for grid modernization and the electrification of rural areas in emerging markets accelerate the demand for distribution

transformers. With the continued rise in renewable energy generation, the need for resilient and efficient transformers capable of managing fluctuating power loads is expected to further bolster market growth.

U.S. oil filled transformer market is projected to exceed USD 12.8 billion by 2032 as a result of ongoing investments in grid improvements and renewable energy structure. Oil-filled transformers are essential to enhance grid reliability and minimize energy loss in high-capacity power systems. The increasing use of intermittent energy sources like solar and wind drives the demand for more robust transformers. Additionally, regulatory incentives focused on energy efficiency support market growth, with oil-filled transformers playing a crucial role in meeting these evolving demands.

Contents

Report Content

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 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis, 2021 – 2032

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
 - 3.3.1 Growth drivers
 - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Porter's analysis
 - 3.5.1 Bargaining power of suppliers
 - 3.5.2 Bargaining power of buyers
 - 3.5.3 Threat of new entrants
 - 3.5.4 Threat of substitutes
- 3.6 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Strategic dashboard
- 4.2 Innovation & sustainability landscape

CHAPTER 5 MARKET SIZE AND FORECAST, BY CORE, 2021 – 2032 (USD MILLION, '000 UNITS)

- 5.1 Key trends
- 5.2 Closed
- 5.3 Shell
- 5.4 Berry

CHAPTER 6 MARKET SIZE AND FORECAST, BY PRODUCT, 2021 – 2032 (USD MILLION, '000 UNITS)

- 6.1 Key trends
- 6.2 Distribution transformer
- 6.3 Power transformer
- 6.4 Instrument transformer
- 6.5 Others

CHAPTER 7 MARKET SIZE AND FORECAST, BY WINDING, 2021 – 2032 (USD MILLION, '000 UNITS)

- 7.1 Key trends
- 7.2 Two winding
- 7.3 Auto-transformer

CHAPTER 8 MARKET SIZE AND FORECAST, BY MODES OF COOLING, 2021 – 2032 (USD MILLION, '000 UNITS)

- 8.1 Key trends
- 8.2 Oil Natural Air Natural (ONAN)
- 8.3 Oil Natural Water Forced (ONWF)
- 8.4 Oil Natural Air Forced (ONAF)
- 8.5 Others

CHAPTER 9 MARKET SIZE AND FORECAST, BY MOUNTING, 2021 – 2032 (USD MILLION, '000 UNITS)

- 9.1 Key trends
- 9.2 Pad
- 9.3 Pole

9.4 Foundation

9.5 Others

CHAPTER 10 MARKET SIZE AND FORECAST, BY RATING, 2021 – 2032 (USD MILLION, '000 UNITS)

10.1 Key trends

10.2 ? 5 MVA

10.3 > 5 MVA to ? 10 MVA

10.4 > 10 MVA

CHAPTER 11 MARKET SIZE AND FORECAST, BY SUBSTATION CONNECTIVITY, 2021 – 2032 (USD MILLION, '000 UNITS)

11.1 Key trends

11.2 Distribution

11.3 Transmission

CHAPTER 12 MARKET SIZE AND FORECAST, BY APPLICATION, 2021 – 2032 (USD MILLION, '000 UNITS)

12.1 Key trends

12.2 Residential

12.3 Commercial & industrial

12.4 Utility

CHAPTER 13 MARKET SIZE AND FORECAST, BY REGION, 2021 – 2032 (USD MILLION, '000 UNITS)

13.1 Key trends

13.2 North America

13.2.1 U.S.

13.2.2 Canada

13.2.3 Mexico

13.3 Europe

13.3.1 Germany

13.3.2 France

13.3.3 Russia

13.3.4 UK

- 13.3.5 Italy
- 13.3.6 Spain
- 13.3.7 Netherlands
- 13.4 Asia Pacific
 - 13.4.1 China
 - 13.4.2 Japan
 - 13.4.3 South Korea
 - 13.4.4 India
 - 13.4.5 Australia
- 13.5 Middle East & Africa
 - 13.5.1 Saudi Arabia
 - 13.5.2 UAE
 - 13.5.3 Qatar
 - 13.5.4 Egypt
 - 13.5.5 South Africa
 - 13.5.6 Nigeria
- 13.6 Latin America
 - 13.6.1 Brazil
 - 13.6.2 Peru
 - 13.6.3 Argentina

CHAPTER 14 COMPANY PROFILES

- 14.1 CG Power & Industrial Solutions
- 14.2 Celme
- 14.3 Eaton
- 14.4 Elsewedy Electric
- 14.5 Eltas Transformator A.S.
- 14.6 Fuji Electric
- 14.7 General Electric
- 14.8 Hitachi Energy
- 14.9 Hyosung Heavy Industries
- 14.10 Kitashiba Electric
- 14.11 Lemi Trafo Transformers
- 14.12 LS ELECTRIC
- 14.13 Mace Power
- 14.14 Mettz Group
- 14.15 Ormazabal
- 14.16 Schneider Electric

14.17 Siemens Energy

14.18 Toshiba International Corporation

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