

Residential Oil Insulated Switchgear Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

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Abstracts

The Global Residential Oil Insulated Switchgear Market reached USD 1.1 billion in 2023 and is projected to grow at a CAGR of 8.2% from 2024 to 2032. This growth is primarily driven by the increasing need for reliable and secure power distribution systems in residential areas. As urbanization progresses and electricity consumption rises, oil-insulated switchgear is becoming increasingly popular due to its capability to handle high voltage levels efficiently while providing superior insulation. Moreover, technological upgrades have significantly enhanced the efficiency and safety of oil-insulated switchgear, making it a more attractive option for residential settings. Governments are also emphasizing the modernization of energy infrastructure and the development of smart grids, which further propels the demand for this type of switchgear.

Emerging economies, especially within the Asia-Pacific region, are witnessing substantial growth fueled by rising electrification and construction activities. The low-voltage segment is anticipated to exceed USD 1 billion by 2032, reflecting the increasing demand for efficient and dependable power distribution systems in residential settings. This surge is largely attributed to the need for safe and sustainable electrical infrastructure in homes, coupled with the expansion of residential developments in rapidly urbanizing areas. Low-voltage oil-insulated switchgear offers several benefits, including excellent insulation performance, durability, and cost-effectiveness, which make it an appealing choice for residential applications.

Based on current types, the AC segment is projected to achieve a CAGR of over 7.9% through 2032, driven by the prevalent use of alternating current (AC) in residential power distribution. As the primary form of electricity utilized in households worldwide, oil-

insulated switchgear designed for AC applications is particularly relevant for modern residential infrastructures. The growing demand for stable and efficient power distribution in contemporary homes, which increasingly rely on a variety of electrical appliances and devices, is a key factor contributing to this trend. The robustness and reliability of oil-insulated switchgear in managing AC loads further solidify its position as a preferred solution for long-term residential use.

The U.S. residential oil-insulated switchgear market is expected to exceed USD 700 million by 2032, influenced by factors shaping the power distribution landscape. The ongoing modernization of electrical systems in residential areas and the need for reliable power distribution to meet rising energy demands are significant drivers of this growth. As urbanization continues and more residential developments emerge, the demand for robust electrical systems that ensure a safe and continuous power supply is on the rise.

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 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 VOLTAGE, 2021 – 2032 (USD MILLION, '000 UNITS)

5.1 Key trends

5.2 Low

5.3 Medium

5.4 High

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

6.1 Key trends

6.2 AC

6.3 DC

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

7.1 Key trends

7.2 North America

7.2.1 U.S

7.2.2 Canada

7.2.3 Mexico

7.3 Europe

7.3.1 UK

7.3.2 Germany

7.3.3 France

7.3.4 Russia

7.3.5 Italy

7.3.6 Spain

7.4 Asia Pacific

7.4.1 China

7.4.2 Australia

7.4.3 India

7.4.4 Japan

7.4.5 South Korea

7.5 Middle East & Africa

7.5.1 Saudi Arabia

7.5.2 UAE

- 7.5.3 Qatar
- 7.5.4 Oman
- 7.5.5 South Africa
- 7.5.6 Egypt
- 7.6 Latin America
 - 7.6.1 Brazil
 - 7.6.2 Peru
 - 7.6.3 Argentina

CHAPTER 8 COMPANY PROFILES

- 8.1 ABB
- 8.2 Eaton
- 8.3 Fuji Electric
- 8.4 Hitachi
- 8.5 Hubbell
- 8.6 Hyundai Electric and Energy Systems
- 8.7 Lucy Group
- 8.8 Meidensha
- 8.9 Mitsubishi Electric
- 8.10 Orecco Electric
- 8.11 Powell Industries
- 8.12 Schneider Electric
- 8.13 Sensata Technologies
- 8.14 Siemens
- 8.15 Skema
- 8.16 Switchgear Company

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