

### Air Core Variable Shunt Reactor Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

https://marketpublishers.com/r/A329E3FB330EEN.html

Date: September 2024 Pages: 70 Price: US\$ 4,365.00 (Single User License) ID: A329E3FB330EEN

### **Abstracts**

The Global Air Core Variable Shunt Reactor Market was valued at USD 320.7 million in 2023 and is expected to experience a significant growth rate of 9% CAGR from 2024 to 2032. The increasing shift toward renewable energy sources has highlighted the need for enhanced grid stability. Efficient voltage regulation is essential for managing the power fluctuations inherent in transmission networks. Consequently, investments in smart grid technologies and infrastructure modernization are on the rise, fueled by technological innovations that improve the reliability and flexibility of air core reactors. As energy consumption continues to surge, especially in developing economies, the demand for more resilient electrical grids becomes critical.

The growing integration of renewable energy into existing power systems underscores the need for stability solutions such as air core variable shunt reactors. The market for three-phase shunt reactors is estimated to exceed USD 450 million by 2032, largely driven by the increasing demand for grid stability. The integration of renewable sources like wind and solar creates significant voltage fluctuations, necessitating reliable regulation solutions. Additionally, the modernization of aging transmission systems, increased investments in smart grid infrastructure, and a shift toward environmentally friendly, oil-free technologies are vital factors propelling market growth.

Technological advancements that enhance the efficiency, reliability, and adaptability of shunt reactors also contribute to the positive market outlook. The market is categorized into electric utility and renewable energy sectors, with the latter capturing a substantial share. The renewable energy segment is anticipated to grow at a remarkable CAGR of over 11.5% by 2032, driven by the heightened integration of wind and solar energy, which can create voltage imbalances in power grids. The ongoing investments in renewable energy infrastructure and initiatives to modernize power grids further fuel demand for air core variable shunt reactors.



Moreover, the increasing need for advanced grid stability solutions and the trend toward eco-friendly, oil-free technologies bolster growth in this segment. The Asia Pacific region is anticipated to surpass USD 380 million in the air core variable shunt reactor market by 2032. Rapid industrialization, urbanization, and the adoption of renewable energy sources are key drivers of this growth. Countries in this region are actively expanding their power grids to meet the rising electricity demand while effectively integrating renewable sources. Efforts to modernize the grid, improve power quality standards, and maintain stable voltage regulation significantly contribute to market expansion. Additionally, advancements in air core reactor design, offering greater efficiency and lower maintenance requirements, support the widespread adoption of these technologies.



### 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 outlook
- 4.2 Innovation & sustainability landscape



## CHAPTER 5 MARKET SIZE AND FORECAST, BY PHASE, 2021 – 2032 (USD MILLION)

5.1 Key trends

- 5.2 Single phase
- 5.3 Three phase

# CHAPTER 6 MARKET SIZE AND FORECAST, BY END USE, 2021 – 2032 (USD MILLION)

- 6.1 Key trends
- 6.2 Electric utility
- 6.3 Renewable energy

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

- 7.1 Key trends
- 7.2 North America
  - 7.2.1 U.S.
- 7.2.2 Canada
- 7.3 Europe
  - 7.3.1 UK
  - 7.3.2 Germany
  - 7.3.3 France
  - 7.3.4 Italy
  - 7.3.5 Russia
- 7.4 Asia Pacific
  - 7.4.1 China
  - 7.4.2 India
  - 7.4.3 Japan
  - 7.4.4 Australia
- 7.5 Middle East & Africa
- 7.5.1 Saudi Arabia
- 7.5.2 UAE
- 7.5.3 Qatar
- 7.5.4 South Africa
- 7.6 Latin America
  - 7.6.1 Brazil



7.6.2 Argentina

#### **CHAPTER 8 COMPANY PROFILES**

- 8.1 Coil Innovation
- 8.2 GE
- 8.3 GETRA
- 8.4 Hilkar
- 8.5 Hitachi Energy
- 8.6 Hyosung Heavy Industries
- 8.7 MindCore Technologies
- 8.8 Nissin Electric
- 8.9 Phoenix Electric
- 8.10 SGB SMIT
- 8.11 Shrihans Electricals
- 8.12 Siemens Energy
- 8.13 TMC Transformers
- 8.14 Toshiba Energy Systems & Solutions



### I would like to order

Product name: Air Core Variable Shunt Reactor Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

Product link: https://marketpublishers.com/r/A329E3FB330EEN.html

Price: US\$ 4,365.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

### Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <u>https://marketpublishers.com/r/A329E3FB330EEN.html</u>