

Air Insulated Switchgear Market By Voltage (Low, Medium, High) , By Application (Power Distribution Networks, Industrial Plants, Infrastructure Projects, Data Centers, Renewable Energy Integration, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Air Insulated Switchgear Market

The air insulated switchgear market was valued at \$66.8 billion in 2023 and is projected to reach \$100.9 billion by 2033, growing at a CAGR of 4.2% from 2024 to 2033.

Air insulated switchgear (AIS) is a power redistribution device that aids in the redistribution of power from a primary distributor, using a high voltage transformer. Air is a major insulator in AIS as it helps to reduce electrical faults, thereby ensuring safe operation. The device comprises of disconnectors, circuit breakers, and busbars, all enclosed within a metal casing. The robust design and potential to handle large electrical loads make AIS a preferred choice for various applications in industrial plants, power distribution networks, and infrastructure projects.

Increase in demand for robust electrical distribution networks due to rapid surge in urbanization and industrialization globally is a key factor driving the growth of the air insulated switchgear market. In addition, rise in inclination toward sustainability is boosting the adoption of AIS as the device helps to reduce the consumption of energy by 40%. Currently, the development of modular & compact switchgears, assimilated with the capabilities of innovative technologies such as AI and the Internet of Things (IoT) is emerging as a significant trend. Furthermore, the integration of AIS

the power grid of renewable sources of energy; including wind, solar, and hydro; is acquiring traction. With increasing adoption of renewable energy sources, the management of their variable output has become pivotal to ensure stable power supply.

However, AIS potentially causes severe environmental damage in case of leakage, due to their usage of air as an insulating material. This limits the usage of switchgear, hence restraining market growth. Furthermore, the deployment of AIS faces significant challenges from gas-insulated switchgear (GIS), which prevents the widespread expansion of the air insulated switchgear market. According to an article by Electric Energy Online, a platform offering daily news coverage of the energy industry, GIS has a lower footprint when compared to AIS as the size of GIS substations is 10 times smaller than AIS.

Segment Review

The air insulated switchgear market is segmented by voltage, application, and region. On the basis of voltage, the market is classified into low, medium, and high. Depending on application, it is divided into power distribution networks, industrial plants, infrastructure projects, data centers, renewable energy integration, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of voltage, the medium segment is expected to maintain its lead position during the forecast period.

Depending on application, the power distribution networks segment is projected to be the highest shareholder throughout the forecast period.

Region wise, Asia-Pacific is anticipated to be the highest revenue generator by 2033.

Competition Analysis

The major players operating in the global air insulated switchgear market include Hitachi Group, Schneider Electric, Switchgear Company, Siemens, alfanar Group, Mitsubishi Electric Power Products, Inc., Orecco, Eaton, Zhejiang Volcan Electrical Technology Co. Ltd, ABB, and Ghorit. These players have adopted various key developmental strategies such as business expansion, new product launches, and

partnerships to strengthen their foothold in the market.

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Capital Investment breakdown

Installed Base analysis

Investment Opportunities

Technology Trend Analysis

Global Market Strategy

Patient/epidemiology data at country, region, global level

Regulatory Guidelines

Additional company profiles with specific client's interest

Additional country or region analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

Import Export Analysis/Data

SWOT Analysis

Key Market Segments

By Voltage

Low

Medium

High

By Application

Power Distribution Networks

Industrial Plants

Infrastructure Projects

Data Centers

Renewable Energy Integration

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

India

Japan

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

Hitachi Group

Schneider Electric

Switchgear Company

Siemens

alfanar Group

Mitsubishi Electric Power Products, Inc.

Orecco

Eaton

Zhejiang Volcan%li%Electrical Technology Co.,Ltd

ABB

Ghorit

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