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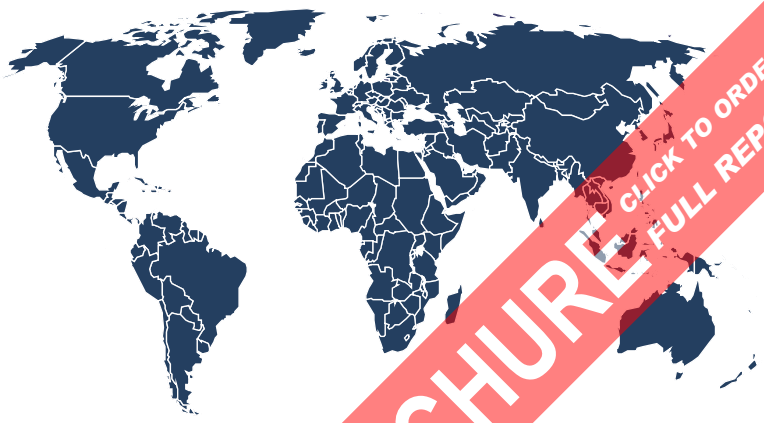
Global Collection

Global Electric Power Transmission & Distribution Equipment

October 2019



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About This Report

Scope

This report forecasts to 2023 global demand for electric power transmission and distribution equipment by product, market, and major world region in nominal US dollars at the manufacturer level. Product segments include:

- power transformers
- distribution transformers
- other transformers such as machine tool control, power-regulating, and specialty types
- switchgear and switchboard apparatus

Reported markets encompass:

- electric utilities
- industrial and nonutility generators
- commercial, government, and residential

Major world regions include North America, Western Europe, Asia/Pacific, and all other regions.

To illustrate historical trends, world, product, market, and regional demand (including product and market segments) are provided for 2008, 2013, and 2018.

Excluded from the scope of this report are electronic transformers, electric meters, fluorescent lamp ballasts, pole and transmission line hardware, cable, and power generation equipment (e.g., generators, motors).

For any given historical year, US dollar amounts are obtained from values expressed in the applicable local currency. These local currency values are converted to US dollars at the average annual exchange rate for that year. For forecast years, the US dollar amounts assume the same annual exchange rate as that prevailing in 2018.

Other various topics, including profiles of pertinent leading companies, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Global Electric Power Transmission & Distribution Equipment (FW45013) is based on a comprehensive industry study published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 8 | NAICS & SIC Codes Related to Electric Power T&D Equipment

NAICS/SCIAN 2017 North American Industry Classification System		SIC Standard Industrial Classification	
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	3612	Power, distribution, and specialty transformers
335311	Power, distribution, and specialty transformer manufacturing	3613	Switchgear and switchboard apparatus
335313	Switchgear and switchboard apparatus manufacturing	3625	Relays and industrial controls
335314	Relay and industrial control manufacturing	3644	Noncurrent-carrying wiring devices
335932	Noncurrent-carrying wiring device manufacturing	3825	Instruments to measure electricity

Source: US Census Bureau

Table 9 | HS Codes Related to Electric Power T&D Equipment

HS Code	Definition
8504	Electrical transformers, static converters, and inductors
8535	Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits, for a voltage exceeding 1000 volts
8536	Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits, for a voltage not exceeding 1000 volts

Source: United Nations Statistics Division

Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2. The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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Resources

The Freedonia Group

Global Electric Power Transmission & Distribution Equipment

Freedonia Industry Studies

General Purpose LEDs & Other High-Efficiency Lighting in the US
General Purpose Lighting Fixtures in the US
Global Batteries
Global Electric Motors
Rechargeable (Secondary) Batteries
Single-Use (Primary) Batteries in the US
Smart Lighting in the US

Freedonia Focus Reports

Analytical Instruments: United States
Control Technologies: United States
Electronic Components: United States
Energy: United States
Insulated Wire & Cable: United States
Renewable Energy: United States

Freedonia Custom Research

Trade Publications

Electrical Construction and Maintenance
Electrical Wholesaling
Electricity Today
Plant Engineering
POWER Magazine
Renewable Energy News
Transmission and Distribution World

Agencies & Associations

National Electrical Manufacturers Association
United Nations Comtrade
United States Energy Information Administration
World Bank