

# Power & Industry Electrical Equipment Ed 2 2018

## Generation, Transmission & Distribution Mechanical and Electrical Equipment

### Forecasts Market Shares



**The purpose of this report is to provide a thorough analysis of purchases of equipment used in the generation, transmission and distribution of electricity by all generator owners; utility, industry and private, historical and forecast.**

- ◆ Historical annual sales demand for 56 products in \$ from 2000 to 2017 and forecasts to 2022 are contained in 155 tables, encompassing equipment purchased by the combined utility and industrial sectors to generate and supply electricity. The tables are analysed by 19 regions and major countries.
- ◆ The electricity generation industry is complex. The equipment fleet for generation and transport of electricity consists of mechanical and electrical components. Mechanical plant has outputs for electricity generation and mechanical drive.
- ◆ Boilers, produce steam for electricity generation, heat for space heating, or mechanical drive for industrial process. Turbines produce rotational energy for power generators or for mechanical drive for industrial process or transport. Each component has different characteristics and must be evaluated individually. The figures in this report represent the total markets for the electrical and mechanical equipment used to generate electricity.
- ◆ Analysis of the overall market for mechanical and electrical plant is provided - the break between mechanical and electrical plant - the share of electrical or mechanical output, providing a guide to total market sizes.
- ◆ Overall ownership of generating plant split between utility and industry.
- ◆ The tables are divided into three groups; for generation, transmission and distribution.
- ◆ Market shares are provided for equipment categories.
- ◆ Capex for generation, transmission and distribution from 2000 to 2017 and forecast to 2022.
- ◆ The differences between the long-term demand cycle and short term sales, and their drivers, are demonstrated.

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### Product sales annually from 2000 to 2022

GENERATION	TRANSMISSION	DISTRIBUTION
Boilers	Power transformers	Distribution transformers
Steam turbines, generators & condensers	HV circuit breakers	MV circuit breakers
Gas turbines & generators	Circuit protectors	Distribution panels
HRSG heat recovery steam generators	Surge arresters	Circuit protectors
HFO/diesel reciprocating engines	HVDC capacitors	Surge arresters
Wind turbine mechanical	AC filters	Air core reactors
Hydro turbine, generator & regulators	Air core reactors	Fuse gear
Solar PV modules	Fuse gear	Switches
Solar PV inverters	Switches	Disconnectors
FGD Flue gas desulphurisation	Disconnectors	Protection relays
SCR Selective catalytic reduction	Protection relays	Lightning arresters
Particulate removal (ESB, scrubbers, baghouse)	Lightning arresters	Isolators
CPP Coal preparation plant	Isolators	Other MV SW apparatus
Fly ash handling plant	Other HV SW apparatus	Insulated power cable
Insulated cable	Insulated power cable inc subsea	Bare conductor
Compressors	Bare conductor	Insulators & bushings
Piping	Insulators & bushings	Spacers, dampers & fittings
Instruments & control	Spacers, dampers & fittings	Steel primary distribution towers
BOP mechanical	Steel transmission towers	Poles wood, concrete, steel, composite
Generator transformers	Sub-transmission poles wood, concrete, steel, composite	Pole-top assemblies
GCB Generator circuit breakers	Pole-top assemblies (exc insulators	Meters
Other switchgear	Meters	Distribution automation inc SCADA
Other electrical	Distribution automation inc SCADA	Distribution equipment
Utility automation	Smart grid technology	
Generation equipment	Transmission equipment	

### Countries and regional markets by products annually from 2000 to 2022

Product	2000 - to - 2022
Region	Country
World	
USA	
Europe	France, Germany, Italy, Spain, UK
CIS - Russia	Russia
Asia Pacific	China, Japan, India, SE Asia
Middle East	
Africa	
Latin America	Brazil

## **Power & Industry Electrical Equipment Ed 2 2018**

### **Methodology**

This report is compiled from eight of StatPlan's deep dive market reports, from national production reports and energy agencies, and from the StatPlan industry databases. The StatPlan market reports have been produced with extensive desk research over a number of years with industry interviews and reports. The various reports range from 1st to 6th editions and the figures are continuously monitored and updated.

### **Format of report - Excel**

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