

Global Hydrogen Electrolysis Rectifier Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Hydrogen Electrolysis Rectifier market size was valued at USD 45 million in 2022 and is forecast to a readjusted size of USD 1117.5 million by 2029 with a CAGR of 58.3% during review period.

The hydrogen electrolysis rectifier is used in the water electrolysis hydrogen production process. A rectifier is one or more diodes that are used for the conversion of AC into DC. Electrolysis is a promising option for hydrogen production from renewable resources.

Electrolysis is the process of using electricity to split water into hydrogen and oxygen. This reaction takes place in a unit called electrolyze. Electrolyzes can range in size from small, appliance-size equipment that is well-suited for small-scale distributed hydrogen production to large-scale, central production facilities that could be tied directly to renewable or other non-greenhouse-gas-emitting forms of electricity production.

The DC power supply required for electrolyzing water to produce hydrogen generally has higher voltage and lower current. This means that in the rectifier transformer, the voltage will be greatly increased and the current will be reduced accordingly.

Therefore, the design of the rectifier transformer must take into account the voltage and current requirements to ensure that the process of electrolyzing water to produce hydrogen is as efficient as possible. In addition to voltage and current requirements, the stability of the rectifier transformer is also one of the key factors. This is because once the output of the rectifier transformer is unstable, it will affect the process of

electrolyzing water to produce hydrogen and may cause equipment damage or other problems. Therefore, stability is a factor that must be considered when designing a rectifier transformer.

Nowadays, 96% of the global hydrogen produced comes from the use of fossil fuels (i.e., natural gas, oil); whereas production from water electrolysis represents only 4%. Indeed, the cost of hydrogen production by using fossil fuels is smaller than water electrolysis given that current electrolyzers are quite expensive and the cost of electricity as well. However, hydrogen production based on fossil fuels, namely gray hydrogen, suffers from lower purity and higher generation of greenhouse gases. To face the intensive use and depletion of fossil fuels to respond to hydrogen demands, water electrolysis supplied by renewable energy sources (e.g., wind turbine, photovoltaic) is considered an attractive and promising alternative. Renewable energy sources combined with water electrolysis come within the scope of the development of environmentally friendly hydrogen production pathways to substitute current hydrogen production based on pollutant fuels. Water electrolysis can produce hydrogen at high gas purity but features high cost (electrolyzer, electricity) and lower energy efficiency due to a high specific energy consumption. For this reason, energy efficiency, cost of electricity, and water electrolysis systems remain major concern to the development of water electrolysis process at a large scale. The water electrolysis process consists of using electricity coming from the power grid or renewable energy sources to split pure water into hydrogen and oxygen. The global market for water electrolysis for hydrogen production was estimated at US\$ 689.98 million in the year 2022, is projected to reach a revised size of US\$ 20.93 billion by 2029.

The Global Info Research report includes an overview of the development of the Hydrogen Electrolysis Rectifier industry chain, the market status of Alkaline Electrolyzer (Thyristor (SCR) Rectifier, IGBT Rectifier), PEM Electrolyzer (Thyristor (SCR) Rectifier, IGBT Rectifier), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Hydrogen Electrolysis Rectifier.

Regionally, the report analyzes the Hydrogen Electrolysis Rectifier markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Hydrogen Electrolysis Rectifier market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Hydrogen Electrolysis Rectifier market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Hydrogen Electrolysis Rectifier industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Thyristor (SCR) Rectifier, IGBT Rectifier).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Hydrogen Electrolysis Rectifier market.

Regional Analysis: The report involves examining the Hydrogen Electrolysis Rectifier market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Hydrogen Electrolysis Rectifier market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Hydrogen Electrolysis Rectifier:

Company Analysis: Report covers individual Hydrogen Electrolysis Rectifier manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Hydrogen Electrolysis Rectifier This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Alkaline Electrolyzer, PEM Electrolyzer).

Technology Analysis: Report covers specific technologies relevant to Hydrogen Electrolysis Rectifier. It assesses the current state, advancements, and potential future developments in Hydrogen Electrolysis Rectifier areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Hydrogen Electrolysis Rectifier market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Hydrogen Electrolysis Rectifier market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Thyristor (SCR) Rectifier

IGBT Rectifier

Market segment by Application

Alkaline Electrolyzer

PEM Electrolyzer

Solid Oxide Electrolyzer

Others

Major players covered

ABB Ltd.

Siemens AG

Hubei Green Power Co., Ltd.

Prodrive Technologies B.V.

Sensata Technologies, Inc.

Jiangxi Liyuan Haina Tech. Co., Ltd.

Comeca

Sungrow Power Supply

American Superconductor Corporation

Ador Powertron Ltd.

KraftPowercon

AEG Power Solutions B.V.

Spang Power Electronics

Kexiong Power

Sichuan Injet Electric Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Hydrogen Electrolysis Rectifier product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hydrogen Electrolysis Rectifier, with price, sales, revenue and global market share of Hydrogen Electrolysis Rectifier from 2018 to 2023.

Chapter 3, the Hydrogen Electrolysis Rectifier competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydrogen Electrolysis Rectifier breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022. and Hydrogen Electrolysis Rectifier market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hydrogen Electrolysis Rectifier.

Chapter 14 and 15, to describe Hydrogen Electrolysis Rectifier sales channel, distributors, customers, research findings and conclusion.

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