

Global IGBT Rectifier for Hydrogen Production Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

<https://marketpublishers.com/r/G4BBF0C8FDB1EN.html>

Date: November 2023

Pages: 113

Price: US\$ 3,480.00 (Single User License)

ID: G4BBF0C8FDB1EN

Abstracts

According to our (Global Info Research) latest study, the global IGBT Rectifier for Hydrogen Production market size was valued at USD 13 million in 2022 and is forecast to a readjusted size of USD 479.7 million by 2029 with a CAGR of 67.6% during review period.

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 IGBT Rectifier for Hydrogen Production industry chain, the market status of Alkaline Electrolyzer (IGBT Chopper Rectifier, IGBT Boost Rectifier), PEM Electrolyzer (IGBT Chopper Rectifier, IGBT Boost Rectifier), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of IGBT Rectifier for Hydrogen Production.

Regionally, the report analyzes the IGBT Rectifier for Hydrogen Production 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 IGBT Rectifier for Hydrogen Production market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the IGBT Rectifier for Hydrogen Production 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 IGBT Rectifier for Hydrogen Production 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., IGBT Chopper Rectifier, IGBT Boost 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 IGBT Rectifier for Hydrogen Production market.

Regional Analysis: The report involves examining the IGBT Rectifier for Hydrogen Production 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 IGBT Rectifier for Hydrogen Production market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to IGBT Rectifier for Hydrogen Production:

Company Analysis: Report covers individual IGBT Rectifier for Hydrogen Production 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 IGBT Rectifier for Hydrogen Production. 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 IGBT Rectifier for Hydrogen Production. It assesses the current state, advancements, and potential future developments in IGBT Rectifier for Hydrogen Production areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the IGBT Rectifier for Hydrogen Production 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

IGBT Rectifier for Hydrogen Production 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

IGBT Chopper Rectifier

IGBT Boost 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 IGBT Rectifier for Hydrogen Production product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the IGBT Rectifier for Hydrogen Production 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 IGBT Rectifier for Hydrogen Production 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 IGBT Rectifier for Hydrogen Production.

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

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