

# Global IGBT Rectifier for Hydrogen Production Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global IGBT Rectifier for Hydrogen Production market size is expected to reach \$ 479.7 million by 2029, rising at a market growth of 67.6% CAGR during the forecast period (2023-2029).

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.

This report studies the global IGBT Rectifier for Hydrogen Production production,

demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for IGBT Rectifier for Hydrogen Production, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of IGBT Rectifier for Hydrogen Production that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global IGBT Rectifier for Hydrogen Production total production and demand, 2018-2029, (Units)

Global IGBT Rectifier for Hydrogen Production total production value, 2018-2029, (USD Million)

Global IGBT Rectifier for Hydrogen Production production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global IGBT Rectifier for Hydrogen Production consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: IGBT Rectifier for Hydrogen Production domestic production, consumption, key domestic manufacturers and share

Global IGBT Rectifier for Hydrogen Production production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global IGBT Rectifier for Hydrogen Production production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global IGBT Rectifier for Hydrogen Production production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global IGBT Rectifier for Hydrogen Production market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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 and American Superconductor Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World IGBT Rectifier for Hydrogen Production market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global IGBT Rectifier for Hydrogen Production Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global IGBT Rectifier for Hydrogen Production Market, Segmentation by Type

IGBT Chopper Rectifier

IGBT Boost Rectifier

## Global IGBT Rectifier for Hydrogen Production Market, Segmentation by Application

Alkaline Electrolyzer

PEM Electrolyzer

Solid Oxide Electrolyzer

Others

## Companies Profiled:

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.

### Key Questions Answered

1. How big is the global IGBT Rectifier for Hydrogen Production market?
2. What is the demand of the global IGBT Rectifier for Hydrogen Production market?
3. What is the year over year growth of the global IGBT Rectifier for Hydrogen Production market?
4. What is the production and production value of the global IGBT Rectifier for Hydrogen Production market?
5. Who are the key producers in the global IGBT Rectifier for Hydrogen Production market?

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