

Hydrogen Generation Market Manufacturers, Research Methodology, Competitive Landscape and Business Opportunities by 2030

Rising demand from the transportation sector is one of the key factors driving market revenue growth

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Emergen Research's latest market research report focuses on the global [Hydrogen Generation market](#), and the report provides in-depth analysis of each of its major segments. Reports about the global Hydrogen Generation market provide a comprehensive overview of the market,

including market size, revenue growth rate, industry statistics, revenue shares among regional markets, gross profits, production costs, and product portfolios. The report also highlights the most important factors influencing industry revenue growth, including drivers, opportunities, trends, restraints, challenges, demand and supply ratios, production and consumption patterns, strict regulatory frameworks, and a multitude of micro-economic and macro-economic factors. Hydrogen Generation industry projections and qualitative and quantitative assessments have been provided by the report's authors. The SWOT analysis and Porter's Five Forces Analysis are some of the most important components of this report that provide insight into the highly competitive environment of the industry. A detailed analysis of the global Hydrogen Generation market is presented in the report, including North America, Europe, Latin America, Asia Pacific, and Middle East & Africa. Aside from revenue growth drivers & restraints, production & consumption patterns, changing consumer preferences, and stringent regulatory standards, this report also examines other key aspects of regional markets.

The hydrogen generation market size was USD 135 Billion in 2021 and is expected to register a revenue CAGR of 9.8% during the forecast period, according to the latest analysis by Emergen Research. Rising demand from the transportation sector is a key factor driving growth of the



market. Development of green hydrogen production methods is a key trend that is expected to create opportunities for the global market. Hydrogen is currently produced using various processes including steam methane reforming, partial oil oxidation, coal gasification, and water electrolysis. Majority of hydrogen produced today is used in petroleum refineries and fertilizer production out of which 90% is derived from fossil fuel reformation and is the most cost-effective way. However, because CO₂ is emitted in the process, there are no meaningful climatic advantages. Green hydrogen is produced by electrolysis of water using renewable energy sources such as onshore and offshore wind and solar power. Green hydrogen offers a wide range of uses from industrial feedstock to fuel cells and energy storage. However, one of the most difficult aspects of hydrogen is storing it. If it is to be used as a direct fuel for a car, it must be stored on board and pressurized (in certain cases to five or ten thousand psi) or liquefied to have a sufficient driving range. Hydrogen can even be stored in subterranean caves or depleted oil fields, as Imperial Chemical Industries has done for years without issue. In addition, another issue with hydrogen is that it requires ultra-high purity hydrogen at levels of up to 99.999% when used in a fuel cell. Another significant obstacle for development of the hydrogen generation market is infrastructure required. A hydrogen infrastructure, according to the theory, would consist of industrial-sized subterranean pipelines and filling stations spread across the country, forming a Hydrogen Highway. Those stations that were not near a pipeline would have to rely on supply vehicles and trailers for their hydrogen or produce it on-site.

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The study outlines the rapidly evolving and growing market segments along with valuable insights into each element of the industry. The industry has witnessed the entry of several new players, and the report aims to deliver insightful information about their transition and growth in the market. Mergers, acquisitions, partnerships, agreements, product launches, and joint ventures are all outlined in the report.

Key Companies Profiled in the Report are

Enapter, Claind, Ataway, Hiringa Energy, Exytron, Messer, Hydrogenics Corporation, SOL Group, Iwatani Corporation and Linde PLC

The research report offers a comprehensive regional analysis of the market with regards to production and consumption patterns, import/export, market size and share in terms of volume and value, supply and demand dynamics, and presence of prominent players in each market.

Regional Analysis Covers:

North America (U.S., Canada)

Europe (U.K., Italy, Germany, France, Rest of EU)

Asia Pacific (India, Japan, China, South Korea, Australia, Rest of APAC)

Latin America (Chile, Brazil, Argentina, Rest of Latin America)

Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of MEA)

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Furthermore, the report provides the analytical data in an organized format segmented into charts, tables, graphs, figures, and diagrams. This enables readers to understand the market scenario in an easy and beneficial manner. Moreover, the report aims to impart a prospective outlook and draw an informative conclusion to assist the reader in making lucrative business decisions. The report, in conclusion, provides a detailed analysis of the segments expected to dominate the market, the regional bifurcation, the estimated market size and share, and comprehensive SWOT analysis and Porter's Five Forces Analysis.

On the basis of type, the market is segmented into

Technology Outlook (Revenue, USD Billion; 2019–2030)

Steam Methane Reforming

Coal Gasification

Electrolysis

Partial Oxidation

Source Outlook (Revenue, USD Billion; 2019–2030)

Blue Hydrogen

Green Hydrogen

Application Outlook (Revenue, USD Billion; 2019–2030)

Petroleum Refinery

Ammonia Production

Methanol Production

Transportation

Power Generation

Others

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