

Europe Green Hydrogen Market Analysis: Plant Capacity, Production, Operating Efficiency, Demand & Supply, End-User Industries, Sales Channel, Regional Demand, 2015-2032

<https://marketpublishers.com/r/E18299999061EN.html>

Date: October 2023

Pages: 0

Price: US\$ 4,500.00 (Single User License)

ID: E18299999061EN

Abstracts

The Europe Green Hydrogen market has reached approximately 3 thousand tonnes in 2022 and is expected to grow at an impressive CAGR of 132% during the forecast period until 2032. Green Hydrogen-based power generation, which is sustainable in nature, and its demand will most likely surge in the forthcoming years especially in Europe.

Hydrogen is the most common chemical element on the planet. Green hydrogen is produced by electrolysis using sustainable energies like solar or wind power. By utilizing electrodes and an electrical current, electrolysis breaks down the water molecule into oxygen and hydrogen. Green Hydrogen is a clean alternative to conventional fuels. Due to its ability to lower carbon emissions, green hydrogen has seen a sharp rise in demand in recent years. It also helps to address the increasing expectations of the global community. Because it is a long-term energy source that can replace fossil fuels, its use is expected to rise.

The market for green hydrogen in Europe is being driven primarily by increased environmental concerns brought on by carbon emissions and rising demand for cleaner energy from all major industrial sectors. With Europe's goal towards decarbonizing, Green Hydrogen holds a substantial position in the fuel market. Green Hydrogen can be easily transported by the means of pipelines. Together, the worldwide European Hydrogen Bank and the green hydrogen partnerships seek to provide a framework to guarantee that alliances formed by the EU member states and the industry offer a level playing field between EU production and imports from outside the EU. Green hydrogen

collaborations with other countries are anticipated to make it easier to promote the import of renewable hydrogen from other nations and help to encourage decarbonization. In May 2022, European Commission commissioned a REPowerEU plan to promote Europe's focus on renewable hydrogen as an important energy carrier and reduce dependency on fossil fuel imports. The demand for green hydrogen is likely to increase at a rapid pace with major applications such as fuel, chemical feedstock and surging demand from refining and Iron & Steel Industry is likely to boost the demand during the forecast period. The Europe Green Hydrogen market will most likely reach nearly 22.30 million tonnes by 2032.

Based on demand by region, the Green Hydrogen market is segregated into Southern Europe, Eastern Europe, Western Europe, and Rest of the Europe. Among these regions, Western Europe is dominating the Green Hydrogen market and is likely to retain its position in the forecast period.

Based on the end-user industry, the Green Hydrogen market is segmented into various industries which are Green Ammonia, Transportation Fuel, Refining, Power & Heating, and Chemical Feedstock. Among these, Green Ammonia is the leading consumer followed by the transportation sector. In 2022, Green Ammonia industry held a market share of 38%. Green ammonia has a wide array of uses in various industries such as transportation, industrial power generation, and fertilizer.

Major players in the production of Europe Green Hydrogen are Shell Plc, Siemens AG, N.V Nederlandse Gasunie, Air Liquide S.A., Plug Power Inc, Iberdrola & Storegga JV, Iberdrola, Bp, Nouryon & Port of Rotterdam JV, Total and Engie, HyCC, Tata Steel & the Port of Amsterdam JV, Total Energies & Air Liquide JV, and Others.

Years considered for this report:

Historical Period: 2015- 2022

Base Year: 2022

Estimated Year: 2023

Forecast Period: 2024-2032

Objective of the Study:

Europe Green Hydrogen Market Analysis: Plant Capacity, Production, Operating Efficiency, Demand & Supply, End-...

To assess the demand-supply scenario of Green Hydrogen which covers production, demand and supply of Green Hydrogen market in the Europe.

To analyse and forecast the market size of Green Hydrogen

To classify and forecast Europe Green Hydrogen market based on end-use and regional distribution.

To examine competitive developments such as expansions, mergers & acquisitions, etc., of Green Hydrogen market in the Europe.

To extract data for Europe Green Hydrogen market, primary research surveys were conducted with Green Hydrogen manufacturers, suppliers, distributors, wholesalers and Traders. While interviewing, the respondents were also inquired about their competitors. Through this technique, ChemAnalyst was able to include manufacturers that could not be identified due to the limitations of secondary research. Moreover, ChemAnalyst analyzed various segments and projected a positive outlook for Europe Green Hydrogen market over the coming years.

ChemAnalyst calculated Green Hydrogen demand in Europe by analyzing the historical data and demand forecast which was carried out considering the historical extraction and supply and demand of Green Hydrogen across the Europe. ChemAnalyst sourced these values from industry experts, and company representatives and externally validated through analyzing historical sales data of respective manufacturers to arrive at the overall market size. Various secondary sources such as company websites, association reports, annual reports, etc., were also studied by ChemAnalyst.

Key Target Audience:

Green Hydrogen manufacturers and other stakeholders

Organizations, forums and alliances related to Green Hydrogen distribution

Government bodies such as regulating authorities and policy makers

Market research organizations and consulting companies

The study is useful in providing answers to several critical questions that are important for industry stakeholders such as Green Hydrogen manufacturers, customers and policy makers. The study would also help them to target the growing segments over the coming years (next two to five years), thereby aiding the stakeholders in taking investment decisions and facilitating their expansion.

Report Scope:

In this report, Europe Green Hydrogen market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Market, by End-use: Green Ammonia, Transportation Fuel, Refining, Power & Heating, and Chemical Feedstock

Market, by Sales Channel: Direct Sale and Indirect Sale

Market, by Region: Southern Europe, Eastern Europe, Western Europe, and Rest of the Europe.

Available Customizations:

With the given market data, ChemAnalyst offers customizations according to a company's specific needs.

Contents

1. CAPACITY BY COMPANY

On our online platform, you can stay up to date with essential manufacturers and their current and future operation capacity on a practically real-time basis for Green Hydrogen.

2. CAPACITY BY LOCATION

To better understand the regional supply of Green Hydrogen by analyzing its manufacturers' location-based capacity.

3. PLANT OPERATING EFFICIENCY

To determine what percentage manufacturers are operating their plants or how much capacity is being currently used.

4. PRODUCTION BY COMPANY

Study the historical annual production of Green Hydrogen by the leading players and forecast how it will grow in the coming years.

5. DEMAND BY END- USE

Discover which end-user industry (Green Ammonia, Transportation Fuel, Refining, Power & Heating, and Chemical Feedstock) are creating a market and the forecast for the growth of the Green Hydrogen market.

6. DEMAND BY REGION

Analyzing the change in demand of Green Hydrogen in different regions, i.e., Southern Europe, Eastern Europe, Western Europe, and Rest of the Europe, that can direct you in mapping the regional demand.

7. DEMAND BY SALES CHANNEL (DIRECT AND INDIRECT)

Multiple channels are used to sell Green Hydrogen. Our sales channel will help in analyzing whether distributors and dealers or direct sales make up most of the

industry's sales.

8. DEMAND-SUPPLY GAP

Determine the supply-demand gap to gain information about the trade surplus or deficiency of Green Hydrogen.

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