

# Europe Hydrogen Market Analysis: Plant Capacity, Production, Operating Efficiency, Demand & Supply, End-User Industries, Sales Channel, Regional Demand, Foreign Trade, Company Share, 2015-2032

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## Abstracts

The Europe Hydrogen market has projected an expansion to reach approximately 9.2 million tonnes in 2022 and is expected to grow at an impressive CAGR of 4.13% during the forecast period until 2032. Hydrogen-based power generation, which is both cost-effective and sustainable, is generating a significant level of demand.

Hydrogen is a colorless and abundant gas. Almost hydrogen is never present in its pure form; it is always chemically bonded. It must initially be produced unlike natural gas, and several energy sources are employed for this. Its combustion doesn't release any pollutants, making it a carbon-free energy source. It is referred to as CO<sub>2</sub>-free hydrogen and serves as a storage option for renewable electricity when it is produced using renewable energy. Hydrogen is a clean fuel and an alternative to methane. Hydrogen can be transferred in a variety of ways, including using existing gas networks. Transport is also feasible in other forms, such as ammonia.

The market driving factor of Hydrogen is as a clean alternative to conventional fuels. With Europe's goal towards decarbonizing, hydrogen holds a substantial position in the fuel market. Hydrogen can be easily transported by the means of pipelines. Countries like Spain, Germany, and the Netherlands are aiming towards exceeding pipeline in the forthcoming years and have already launched National Hydrogen strategies. In the forthcoming years, developments in efficient electrochemical compression of hydrogen will be done for transporting maximum gas in the least volume. The Europe Hydrogen market will most likely reach 14 million tonnes by 2032.

Based on demand by region, the Hydrogen market is segregated into Northern Europe, Southern Europe, Eastern Europe, and Western Europe. Among these regions, Western Europe is dominating the Hydrogen market. In 2021, Western Europe accounted for consumption of approximately 41% of the hydrogen market with major consuming countries being France, Belgium, and Germany.

Based on the end-user industry, the Europe Hydrogen market is segregated into Refining, Ammonia, Chemical, Fuel, and Others. As of 2022, the majority of hydrogen is used by the Refining Industry with a market share of 50%. Hydrogen (H<sub>2</sub>) is crucial for refining operations in the petrochemical industry. Companies use this gas to remove Sulphur from the fuels using a chemical separation process known as hydrodesulphurization. Refining is expected to remain the major application of hydrogen even in the forecasted period.

Major players in the production of Europe Hydrogen are Linde, Air Liquide, Air Products, Sapio, Praxair, Petrochemia Plock, Kawasaki, Norsk Hydro, Skeljungur, SIAD, Oy Woikoski, Ansaldo Energia, 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:

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

To analyse and forecast the market size of Hydrogen

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

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

To extract data for Europe Hydrogen market, primary research surveys were conducted with 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 Hydrogen market over the coming years.

ChemAnalyst calculated 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 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:

Hydrogen manufacturers and other stakeholders

Organizations, forums and alliances related to 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 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 Hydrogen market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Market, by End-use: Refining, Ammonia, Chemical, Fuel, and Others

Market, by Sales Channel: Direct Sale and Indirect Sale

Market, by Region: Northern Europe, Southern Europe, Eastern Europe, and Western 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 Hydrogen.

### **2. CAPACITY BY LOCATION**

To better understand the regional supply of 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 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 (Refining, Ammonia, Chemical, Fuel, and Others) are creating a market and the forecast for the growth of the Hydrogen market.

### **6. DEMAND BY REGION**

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

### **7. DEMAND BY SALES CHANNEL (DIRECT AND INDIRECT)**

Multiple channels are used to sell 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 Hydrogen.

## **9. COMPANY SHARE**

Figure out what proportion of the market share of Hydrogen is currently held by leading players across the Europe.

## **10. COUNTRY-WISE EXPORT**

Get details about quantity of Hydrogen exported by major countries.

## **11. COUNTRY-WISE IMPORT**

Get details about quantity of Hydrogen imported by major countries.

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