

Europe Hydrogen Liquefaction System Market Size study, by Type (Steam Methane Reforming (SMR), Electrolysis) by Application (Transportation, Electronics, Chemicals and Petrochemicals, Refining, Others) and Country Forecasts 2022-2032

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Abstracts

Europe Hydrogen Liquefaction System Market is valued approximately at USD 906.95 million in 2023 and is anticipated to grow with a healthy growth rate of more than 7.32% over the forecast period 2024-2032. A Hydrogen Liquefaction System is an engineered arrangement intended for the transformation of gaseous hydrogen into its liquid state. This conversion is attained by reducing the temperature of hydrogen below its boiling point of -252.87°C (-423.17°F) under standard atmospheric pressure conditions. The process of liquefaction conventionally entails the compression of hydrogen gas to elevate its pressure, followed by its gradual cooling via a sequence of heat exchange mechanisms. Through successive stages of cooling, the hydrogen gas is progressively brought to its liquefaction threshold. However, the key trend of Hydrogen Liquefaction System Market is growing demand for clean energy solutions. Europe's commitment to reducing carbon emissions and transitioning towards sustainable energy sources has led to a surge in demand for hydrogen-based solutions. Hydrogen liquefaction systems play a crucial role in facilitating the storage and transportation of hydrogen, thus supporting the growth of the hydrogen economy.

Moreover, the transition towards clean energy sources has led to a surge in demand for hydrogen as a fuel for various applications, including transportation, power generation, and industrial processes. This demand drives the need for efficient hydrogen liquefaction systems to store and transport hydrogen in its liquid form. Also, governments across various countries in the EU region have been actively promoting hydrogen as a key component of their energy transition strategies to reduce carbon

emissions and achieve climate targets. Supportive policies, incentives, and funding for hydrogen infrastructure development encourage investment in liquefaction systems. However, the high initial costs and infrastructure challenges are expected to hinder the market growth during the forecast period 2024-2032.

The key countries considered for the Europe Hydrogen Liquefaction System market study includes UK, Germany, France, Italy, Spain, and Rest of Europe. In 2023, Germany was the dominating market in terms of revenue. Germany aims to reduce its greenhouse gas emissions significantly, and hydrogen is seen as a key component in achieving this goal, particularly in sectors that are hard to decarbonize such as heavy industry, transportation, and heating. This drives the demand. Also, there's a growing demand for green hydrogen, produced through renewable energy sources like wind and solar power. Hydrogen liquefaction systems are crucial for storing and transporting green hydrogen efficiently, further boosting the market growth. Whereas, the United Kingdom is expected to grow as the fastest growing country with the highest CAGR during the forecast period 2024-2032.

Major market player included in this report are:

- Air Liquide
- Linde Group
- Siemens Energy
- Company 4
- Company 5
- Company 6
- Company 7
- Company 8
- Company 9
- Company 10

The detailed segments and sub-segment of the market are explained below:

By Type

Steam Methane Reforming (SMR)

Electrolysis

By Application

Transportation

Electronics

Chemicals and Petrochemicals

Refining
Others
By Region:
Europe
UK
Germany
France
Spain
Italy
ROE

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and Country level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

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