

# Europe Hydrogen Fueling Station Market: Focus on Application, Product, and Country - Analysis and Forecast, 2024-2034

<https://marketpublishers.com/r/EDB8869097FEEN.html>

Date: June 2025

Pages: 0

Price: US\$ 3,250.00 (Single User License)

ID: EDB8869097FEEN

## Abstracts

### Introduction to Europe Hydrogen Fueling Station Market

The Europe hydrogen fueling station market is projected to reach \$934.1 million by 2034 from \$94.6 million in 2024, growing at a CAGR of 25.74% during the forecast period 2024-2034. Europe is focussing more on the market for hydrogen fueling stations as environmental concerns and the need to lessen reliance on fossil fuels grow. In order to achieve the continent's ambitious net-zero ambitions and lower transportation emissions, European governments and industry leaders are investing in hydrogen infrastructure. At the vanguard of this shift are fuel cell vehicles (FCVs), which run on hydrogen, a clean, renewable energy source that only releases water vapour. This change improves energy security through diversity in addition to being in line with Europe's strict ecological targets. The region's increasing use of FCVs is supported by a strong network of hydrogen fueling stations thanks to strategic partnerships between energy corporations, automotive manufacturers, and tech entrepreneurs that are speeding up infrastructure development.

### Market Introduction

The market for hydrogen fueling stations in Europe is expanding rapidly as the continent speeds up its shift to environmentally friendly and sustainable modes of transportation. Hydrogen is being positioned as a crucial enabler for decarbonising the mobility industry, driven by the European Union's ambitious climate goals, such as the Fit for 55 package and the European Green Deal. Fuel cell vehicles (FCVs), which only generate water vapour and provide an environmentally beneficial substitute for internal combustion engines, are made possible in large part by hydrogen fuelling stations.

Several European countries, including Germany, France, the Netherlands, and the United Kingdom, are investing considerably in hydrogen infrastructure, with plans to significantly increase the number of fuelling stations over the next decade. The goal is to provide a dependable, networked system that can accommodate both light and heavy-duty vehicles. Furthermore, using green hydrogen—which is generated through electrolysis with renewable energy—aligns with the EU's more comprehensive energy transformation plans.

Development is being accelerated by cooperation between governments, energy providers, and automakers, despite the high upfront investment costs and infrastructure difficulties. Additionally, stations are becoming more economical and efficient due to advancements in hydrogen distribution, storage, and refuelling technologies. The market for hydrogen fueling stations in Europe is expected to grow significantly over the long run as technology advances and legislative backing increases.

#### Market Segmentation:

##### Segmentation 1: by Application

Light-Duty Vehicles

Heavy-Duty Vehicles

Mixed

##### Segmentation 2: by Station Size

Small-Size Stations

Mid-Size Stations

Large Stations

##### Segmentation 3: by Station Type

Fixed Hydrogen Station

## Mobile Hydrogen Station

### Segmentation 4: by Supply Type

Off-Site

Gas

Liquid

On-Site

Electrolysis

Steam Methane Reforming

### Segmentation 5: by Solution Type

Engineering, Procurement, and Construction

Components

Hydrogen Inlets

Compressors

Hydraulic Power Units and Controls

Dispensing Chiller Systems

Storage Units

Dispensers

Others

## Segmentation 6: by Pressure

Low Pressure

High Pressure

Hybrid

## Segmentation 7: by Country

Germany

France

U.K.

Italy

Spain

Netherlands

Poland

Rest-of-Europe

How can this report add value to an organization?

**Product/Innovation Strategy:** The Europe hydrogen fueling station market has been extensively segmented based on various categories, such as station size, station type, supply type, and end users. This can help readers get a clear overview of which segments account for the largest share and which ones are well-positioned to grow in the coming years.

**Growth/Marketing Strategy:** The Europe hydrogen fueling station market has seen major development by key players operating in the market, such as business expansion, partnership, collaboration, and joint venture.

**Competitive Strategy:** Key players in the Europe hydrogen fueling station market analyzed and profiled in the study involve established and emerging players. Moreover, a detailed competitive benchmarking of the players operating in the EUROPE hydrogen fueling station market has been done to help the reader understand how players stack against each other, presenting a clear market landscape. Additionally, comprehensive competitive strategies such as partnerships, agreements, and collaborations will aid the reader in understanding the untapped revenue pockets in the market.

### Key Market Players and Competition Synopsis

The companies that are profiled in the Europe hydrogen fueling station market have been selected based on input gathered from primary experts and analyzing company coverage, product portfolio, and market penetration.

Some of the prominent names in this market are:

Air Liquide

Nel ASA

Linde plc

Ataway S.A.S.

H2 MOBILITY

sera GmbH

Maximator GmbH

Resato Hydrogen Technology

## Contents

Executive Summary  
Scope and Definition

### **1 MARKET: INDUSTRY OUTLOOK**

#### 1.1 Trends: Current and Future Impact Assessment

1.1.1 Growing Investments in Research and Development Activities for Hydrogen Vehicles

1.1.2 Development of Advanced Hydrogen Production Technologies

1.1.3 Increased Involvement from Private and Government Sector

#### 1.2 City-Wide Installation and Expansion of Hydrogen Fueling Stations in the European Union

1.2.1 Deployments in Urban Nodes (EU term for 424 major cities)

1.2.2 Deployments along the TEN-T core Network

#### 1.3 Regional Strategy and Impact

1.3.1 European Hydrogen Strategy and its Impact on Hydrogen Fueling Stations Growth

#### 1.4 Supply Chain Overview

1.4.1 Value Chain Analysis

1.4.2 Market Map of Hydrogen Fueling Station Market (By Station Type)

1.4.2.1 Fixed Hydrogen Station

1.4.2.2 Mobile Hydrogen Station

#### 1.5 Research and Development Review

1.5.1 Patent Filing Trend (by Country and Company)

#### 1.6 Regulatory Landscape

#### 1.7 Stakeholder Analysis

1.7.1 Use Case

1.7.2 End User and Buying Criteria

#### 1.8 Hydrogen Fueling Station Capacity and Cost Assessment

1.8.1 Dispensing Capacity Trend

1.8.1.1 Global and Europe (by Region)

1.8.1.2 Liquid Hydrogen and Gaseous Hydrogen (by Form)

1.8.2 Cost Assessment of Fuel Stations

1.8.2.1 Global Trend

1.8.2.2 Regional Trend

1.8.2.2.1 Europe

#### 1.9 Key Companies Utilizing Hydrogen-Powered Fuel Stations

## 1.1 Case Study of Key Companies

### 1.10.1 Case Study 1: Air Liquide's Hydrogen Solution for the Paris 2024 Olympic and Paralympic Games

### 1.10.2 Case Study 2: Daimler Truck and Linde's Liquid Hydrogen Refueling Technology

### 1.10.3 Case Study 3: Maximator Hydrogen and Hydri's Hydrogen Refueling Station Expansion in Sweden

## 1.11 Ecosystem/Ongoing Programs

### 1.11.1 Incentives for Hydrogen Fuel-Powered Vehicles

### 1.11.2 University Research Programs

### 1.11.3 Consortiums and Associations

### 1.11.4 Regulatory Assessment

#### 1.11.4.1 Assessment of EU's Fit for 55 and its Impact on Hydrogen Fueling Stations

## 1.12 Market Dynamics Overview

### 1.12.1 Market Drivers

#### 1.12.1.1 Increasing Adoption of Fuel Cell Electric Vehicles

#### 1.12.1.2 Technological Advancements in Hydrogen Fueling

### 1.12.2 Market Challenges

#### 1.12.2.1 High Initial Cost of Hydrogen Fueling Station

#### 1.12.2.2 Insufficiently Developed Hydrogen Infrastructure

### 1.12.3 Market Opportunities

#### 1.12.3.1 Increasing Advancements in Hydrogen Technologies

#### 1.12.3.2 Increasing Government Support in Green Fuels

## 2 REGION

### 2.1 Regional Summary

### 2.2 Europe

#### 2.2.1 Regional Overview

#### 2.2.2 Driving Factors for Market Growth

#### 2.2.3 Factors Challenging the Market

##### 2.2.3.1 Application

##### 2.2.3.2 Product

#### 2.2.4 Germany

##### 2.2.4.1 Application

##### 2.2.4.2 Product

#### 2.2.5 France

##### 2.2.5.1 Application

##### 2.2.5.2 Product

#### 2.2.6 U.K.

##### 2.2.6.1 Application

##### 2.2.6.2 Product

#### 2.2.7 Italy

##### 2.2.7.1 Application

##### 2.2.7.2 Product

#### 2.2.8 Spain

##### 2.2.8.1 Application

##### 2.2.8.2 Product

#### 2.2.9 Netherlands

##### 2.2.9.1 Application

##### 2.2.9.2 Product

#### 2.2.10 Poland

##### 2.2.10.1 Application

##### 2.2.10.2 Product

#### 2.2.11 Rest-of-Europe

##### 2.2.11.1 Application

##### 2.2.11.2 Product

### **3 MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES**

#### 3.1 Next Frontiers

#### 3.2 Geographic Assessment

##### 3.2.1 Maximator GmbH

###### 3.2.1.1 Overview

###### 3.2.1.2 Top Competitors

###### 3.2.1.3 Top Products/Product Portfolio

###### 3.2.1.4 Target Customers

###### 3.2.1.5 Key Personnel

###### 3.2.1.6 Analyst View

###### 3.2.1.7 Market Share, 2023

##### 3.2.2 Resato Hydrogen Technology

###### 3.2.2.1 Overview

###### 3.2.2.2 Top Competitors

###### 3.2.2.3 Top Products/Product Portfolio

###### 3.2.2.4 Target Customers

###### 3.2.2.5 Key Personnel

###### 3.2.2.6 Analyst View

###### 3.2.2.7 Market Share, 2023

### 3.2.3 Air Liquide

#### 3.2.3.1 Overview

#### 3.2.3.2 Top Competitors

#### 3.2.3.3 Top Products/Product Portfolio

#### 3.2.3.4 Target Customers

#### 3.2.3.5 Key Personnel

#### 3.2.3.6 Analyst View

#### 3.2.3.7 Market Share, 2023

### 3.2.4 Nel ASA

#### 3.2.4.1 Overview

#### 3.2.4.2 Top Competitors

#### 3.2.4.3 Top Products/Product Portfolio

#### 3.2.4.4 Target Customers

#### 3.2.4.5 Key Personnel

#### 3.2.4.6 Analyst View

#### 3.2.4.7 Market Share, 2023

### 3.2.5 Linde PLC

#### 3.2.5.1 Overview

#### 3.2.5.2 Top Competitors

#### 3.2.5.3 Top Products/Product Portfolio

#### 3.2.5.4 Target Customers

#### 3.2.5.5 Key Personnel

#### 3.2.5.6 Analyst View

#### 3.2.5.7 Market Share, 2023

### 3.2.6 Atawey S.A.S.

#### 3.2.6.1 Overview

#### 3.2.6.2 Top Competitors

#### 3.2.6.3 Top Products/Product Portfolio

#### 3.2.6.4 Target Customers

#### 3.2.6.5 Key Personnel

#### 3.2.6.6 Analyst View

#### 3.2.6.7 Market Share, 2023

### 3.2.7 H2 MOBILITY Deutschland GmbH & Co. KG

#### 3.2.7.1 Overview

#### 3.2.7.2 Top Competitors

#### 3.2.7.3 Top Products/Product Portfolio

#### 3.2.7.4 Target Customers

#### 3.2.7.5 Key Personnel

#### 3.2.7.6 Analyst View

3.2.7.7 Market Share, 2023

3.2.8 sera GmbH

3.2.8.1 Overview

3.2.8.2 Top Competitors

3.2.8.3 Top Products/Product Portfolio

3.2.8.4 Target Customers

3.2.8.5 Key Personnel

3.2.8.6 Analyst View

3.2.8.7 Market Share, 2023

3.3 Other Key Players

3.4 Growth Opportunities & Recommendations

## **4 RESEARCH METHODOLOGY**

4.1 Data Sources

4.1.1 Primary Data Sources

4.1.2 Secondary Data Sources

4.1.3 Data Triangulation

4.2 Market Estimation and Forecast

## List Of Figures

### LIST OF FIGURES

Figure 1: Europe Hydrogen Fueling Station Market, \$Billion, 2025, 2028, and 2034

Figure 2: Hydrogen Fueling Station Market (by Region), \$Million, 2024, 2028, and 2034

Figure 3: Europe Hydrogen Fueling Station Market (by Application), \$Million, 2024, 2028, and 2034

Figure 4: Europe Hydrogen Fueling Station Market (by Station Size), \$Million, 2024, 2028, and 2034

Figure 5: Europe Hydrogen Fueling Station Market (by Station Type), \$Million, 2024, 2028, and 2034

Figure 6: Europe Hydrogen Fueling Station Market (by Supply Type), \$Million, 2024, 2028, and 2034

Figure 7: Europe Hydrogen Fueling Station Market (by Solution Type), \$Million, 2024, 2028, and 2034

Figure 8: Europe Hydrogen Fueling Station Market (by Pressure), \$Million, 2024, 2028, and 2034

Figure 9: Competitive Landscape Snapshot

Figure 10: Key Events

Figure 11: Number of Hydrogen Refueling Stations in Europe, 2023

Figure 12: Number of HRS in Europe, 2014-2024

Figure 13: Patent Filed (by Country), January 2021-December 2024

Figure 14: Patent Filed (by Company), January 2021-December 2024

Figure 15: Five Major Use Cases in the Hydrogen Fueling Station Market

Figure 16: Impact Analysis of Hydrogen Fueling Station Market Navigating Factors, 2024-2034

Figure 17: Total Number of FCEVs in the World, 2019-2023, Thousand Units

Figure 18: Germany Hydrogen Fueling Station Market, \$Million, 2024-2034

Figure 19: France Hydrogen Fueling Station Market, \$Million, 2024-2034

Figure 20: U.K. Hydrogen Fueling Station Market, \$Million, 2024-2034

Figure 21: Italy Hydrogen Fueling Station Market, \$Million, 2026-2034

Figure 22: Spain Hydrogen Fueling Station Market, \$Million, 2025-2034

Figure 23: Netherlands Hydrogen Fueling Station Market, \$Million, 2024-2034

Figure 24: Poland Hydrogen Fueling Station Market, \$Million, 2024-2034

Figure 25: Rest-of-Europe Hydrogen Fueling Station Market, \$Million, 2024-2034

Figure 26: Strategic Initiatives, January 2021-December 2024

Figure 28: Data Triangulation

Figure 29: Top-Down and Bottom-Up Approach

## Figure 30: Assumptions and Limitations

## List Of Tables

### LIST OF TABLES

Table 1: Market Snapshot

Table 2: Opportunities across Region

Table 3: Key R&D Investments in Hydrogen Vehicles

Table 4: Recent Developments of Advanced Hydrogen Production Technologies

Table 5: Recent Government Initiatives in Hydrogen Fueling Station Market

Table 6: EPC Companies Involved in the Construction of Refueling Stations

Table 7: Component Companies Involved in the Construction of Refueling Stations

Table 8: Component Cost of Hydrogen Fueling Station, Europe

Table 9: Companies Utilizing Hydrogen-Powered Fuel Stations

Table 10: Recent Incentives Focussing on FCEVs

Table 11: Recent Projects Conducted by Research Institutes on the Hydrogen Fueling Station Market

Table 12: Hydrogen Fueling Station Market (by Region), \$Million, 2024-2034

Table 13: Europe Hydrogen Fueling Station Market (by Application), \$Million, 2024-2034

Table 14: Europe Hydrogen Fueling Station Market (by Station Size), \$Million, 2024-2034

Table 15: Europe Hydrogen Fueling Station Market (by Station Type), \$Million, 2024-2034

Table 16: Europe Hydrogen Fueling Station Market (by Supply Type), \$Million, 2024-2034

Table 17: Europe Hydrogen Fueling Station Market (by Solution), \$Million, 2024-2034

Table 18: Europe Hydrogen Fueling Station Market (by Pressure), \$Million, 2024-2034

Table 19: Germany Hydrogen Fueling Station Market (by Application), \$Million, 2024-2034

Table 20: Germany Hydrogen Fueling Station Market (by Station Size), \$Million, 2024-2034

Table 21: Germany Hydrogen Fueling Station Market (by Station Type), \$Million, 2024-2034

Table 22: Germany Hydrogen Fueling Station Market (by Supply Type), \$Million, 2024-2034

Table 23: Germany Hydrogen Fueling Station Market (by Solution), \$Million, 2024-2034

Table 24: Germany Hydrogen Fueling Station Market (by Pressure), \$Million, 2024-2034

Table 25: France Hydrogen Fueling Station Market (by Application), \$Million, 2024-2034

Table 26: France Hydrogen Fueling Station Market (by Station Size), \$Million, 2024-2034

Table 27: France Hydrogen Fueling Station Market (by Station Type), \$Million, 2024-2034

Table 28: France Hydrogen Fueling Station Market (by Supply Type), \$Million, 2024-2034

Table 29: France Hydrogen Fueling Station Market (by Solution), \$Million, 2024-2034

Table 30: France Hydrogen Fueling Station Market (by Pressure), \$Million, 2024-2034

Table 31: U.K. Hydrogen Fueling Station Market (by Application), \$Million, 2024-2034

Table 32: U.K. Hydrogen Fueling Station Market (by Station Size), \$Million, 2024-2034

Table 33: U.K. Hydrogen Fueling Station Market (by Station Type), \$Million, 2024-2034

Table 34: U.K. Hydrogen Fueling Station Market (by Supply Type), \$Million, 2024-2034

Table 35: U.K. Hydrogen Fueling Station Market (by Solution), \$Million, 2024-2034

Table 36: U.K. Hydrogen Fueling Station Market (by Pressure), \$Million, 2024-2034

Table 37: Italy Hydrogen Fueling Station Market (by Application), \$Million, 2024-2034

Table 38: Italy Hydrogen Fueling Station Market (by Station Size), \$Million, 2024-2034

Table 39: Italy Hydrogen Fueling Station Market (by Station Type), \$Million, 2024-2034

Table 40: Italy Hydrogen Fueling Station Market (by Supply Type), \$Million, 2024-2034

Table 41: Italy Hydrogen Fueling Station Market (by Solution), \$Million, 2024-2034

Table 42: Italy Hydrogen Fueling Station Market (by Pressure), \$Million, 2024-2034

Table 43: Spain Hydrogen Fueling Station Market (by Application), \$Million, 2024-2034

Table 44: Spain Hydrogen Fueling Station Market (by Station Size), \$Million, 2024-2034

Table 45: Spain Hydrogen Fueling Station Market (by Station Type), \$Million, 2024-2034

Table 46: Spain Hydrogen Fueling Station Market (by Supply Type), \$Million, 2024-2034

Table 47: Spain Hydrogen Fueling Station Market (by Solution), \$Million, 2024-2034

Table 48: Spain Hydrogen Fueling Station Market (by Pressure), \$Million, 2024-2034

Table 49: Netherlands Hydrogen Fueling Station Market (by Application), \$Million, 2024-2034

Table 50: Netherlands Hydrogen Fueling Station Market (by Station Size), \$Million, 2024-2034

Table 51: Netherlands Hydrogen Fueling Station Market (by Station Type), \$Million, 2024-2034

Table 52: Netherlands Hydrogen Fueling Station Market (by Supply Type), \$Million, 2024-2034

Table 53: Netherlands Hydrogen Fueling Station Market (by Solution), \$Million, 2024-2034

Table 54: Netherlands Hydrogen Fueling Station Market (by Pressure), \$Million,

2024-2034

Table 55: Poland Hydrogen Fueling Station Market (by Application), \$Million, 2024-2034

Table 56: Poland Hydrogen Fueling Station Market (by Station Size), \$Million,  
2024-2034

Table 57: Poland Hydrogen Fueling Station Market (by Station Type), \$Million,  
2024-2034

Table 58: Poland Hydrogen Fueling Station Market (by Supply Type), \$Million,  
2024-2034

Table 59: Poland Hydrogen Fueling Station Market (by Solution), \$Million, 2024-2034

Table 60: Poland Hydrogen Fueling Station Market (by Pressure), \$Million, 2024-2034

Table 61: Rest-of-Europe Hydrogen Fueling Station Market (by Application), \$Million,  
2024-2034

Table 62: Rest-of-Europe Hydrogen Fueling Station Market (by Station Size), \$Million,  
2024-2034

Table 63: Rest-of-Europe Hydrogen Fueling Station Market (by Station Type), \$Million,  
2024-2034

Table 64: Rest-of-Europe Hydrogen Fueling Station Market (by Supply Type), \$Million,  
2024-2034

Table 65: Rest-of-Europe Hydrogen Fueling Station Market (by Solution), \$Million,  
2024-2034

Table 66: Rest-of-Europe Hydrogen Fueling Station Market (by Pressure), \$Million,  
2024-2034

Table 67: Global Market Share, 2023

Table 68: Players Prominent in Hydrogen Fueling Station Market

## I would like to order

Product name: Europe Hydrogen Fueling Station Market: Focus on Application, Product, and Country - Analysis and Forecast, 2024-2034

Product link: <https://marketpublishers.com/r/EDB8869097FEEN.html>

Price: US\$ 3,250.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/EDB8869097FEEN.html>