

Global Hydrogen Patent Intelligence 2026 – Strategic Analysis of Patent Landscape, Innovation Trends, Intellectual Property, Technology Domains, and Future Outlook

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Abstracts

The Global Hydrogen Patent Intelligence report provides an in-depth analysis of the intellectual property landscape within the global hydrogen industry by evaluating patent filing activities, technology innovation trends, patent ownership, research activities, and emerging innovation domains. The report enables organizations to monitor technology leadership, assess competitive intellectual property positions, identify licensing opportunities, and support strategic decisions related to research, product development, and technology commercialization.

The study examines global patent portfolios across hydrogen production, electrolysis, hydrogen purification, storage and transportation, hydrogen infrastructure, hydrogen compression and refueling, fuel cells, hydrogen carriers, and next-generation hydrogen technologies. It also analyzes patent filing trends, leading patent holders, technology domains, citation analysis, geographic distribution, and emerging innovators to provide actionable intelligence on the evolving hydrogen innovation ecosystem. WIPO's patent analytics framework uses patent information to identify innovation trends and support strategic R&D, IP commercialization, licensing, and research collaboration decisions.

The report further highlights patent commercialization opportunities, licensing activities, research collaborations, patent acquisitions, cross-licensing activities, and future technology directions to help organizations strengthen innovation strategies and intellectual property portfolios.

Key Coverage

Hydrogen patent landscape

Patent filing trends

Technology domain analysis

Leading patent holders

Patent portfolio benchmarking

Geographic patent distribution

Citation analysis

Licensing landscape

White-space opportunities

Future patent outlook

Target Audience

Chief Intellectual Property Officers (CIPOs)

Intellectual Property (IP) Teams

Patent Attorneys & Patent Analysts

Research & Development (R&D) Teams

Hydrogen Technology Strategy Teams

Innovation Management Teams

Hydrogen Technology Developers

Hydrogen Producers

Electrolyzer Manufacturers

Fuel Cell Technology Companies

Hydrogen Storage & Infrastructure Companies

Industrial Gas Companies

Technology Scouting Teams

Licensing & Technology Transfer Teams

Universities & Research Institutions

Government & Research Organizations

Investment & Venture Capital Firms

What This Report Offers

Comprehensive hydrogen patent landscape assessment

Patent filing and publication trend analysis

Leading patent holder and assignee benchmarking

Patent portfolio comparison

Hydrogen technology domain and innovation hotspot analysis

Citation and inventor analysis

Geographic patent intelligence

Patent expiry analysis

Licensing landscape assessment

Freedom-to-operate overview

White-space and opportunity identification

Emerging hydrogen innovator tracking

Future hydrogen patent outlook

Key Companies Covered (Illustrative)

Linde plc

Air Liquide S.A.

Air Products and Chemicals, Inc.

Siemens Energy AG

Plug Power Inc.

Nel ASA

thyssenkrupp nucera AG & Co. KGaA

Cummins Inc.

Shell plc

Baker Hughes Company

Bloom Energy Corporation

Toyota Motor Corporation

Hyundai Motor Company

Panasonic Holdings Corporation

Ballard Power Systems Inc.

Mitsubishi Heavy Industries, Ltd.

And other leading patent holders and industry participants.

Contents

1 EXECUTIVE SUMMARY

2 RESEARCH METHODOLOGY

- 2.1 Research Methodology
- 2.2 Research Objectives
- 2.3 Data Sources
- 2.4 Scope of the Study
- 2.5 Assumptions & Limitations

3 PATENT LANDSCAPE OVERVIEW

- 3.1 Hydrogen Industry Overview
- 3.2 Hydrogen Technology Landscape
- 3.3 Patent Ecosystem
- 3.4 Patent Classification
- 3.5 Innovation Drivers
- 3.6 Regulatory Framework
- 3.7 IP Trends

4 GLOBAL PATENT LANDSCAPE

- 4.1 Patent Filing Trends
- 4.2 Patent Publications
- 4.3 Granted Patents
- 4.4 Patent Families
- 4.5 Geographic Distribution
- 4.6 Technology Domains

5 PATENT PORTFOLIO BENCHMARKING

- 5.1 Leading Patent Holders
- 5.2 Company Patent Comparison
- 5.3 University Patent Activity
- 5.4 Research Institute Patent Activity
- 5.5 Startup Patent Activity
- 5.6 Patent Quality Assessment

6 TECHNOLOGY DOMAIN ANALYSIS

- 6.1 Hydrogen Production Technologies
- 6.2 Electrolyzer Technologies
- 6.3 Hydrogen Purification & Separation Technologies
- 6.4 Hydrogen Storage Technologies
- 6.5 Hydrogen Transportation & Distribution Technologies
- 6.6 Hydrogen Refueling & Infrastructure Technologies
- 6.7 Fuel Cell Technologies
- 6.8 Next-Generation Hydrogen Technologies

7 PATENT INTELLIGENCE

- 7.1 Citation Analysis
- 7.2 Inventor Analysis
- 7.3 Assignee Analysis
- 7.4 Patent Expiry Analysis
- 7.5 Licensing Landscape
- 7.6 Freedom-to-Operate Overview

8 STRATEGIC DEVELOPMENTS

- 8.1 Licensing Agreements
- 8.2 Patent Acquisitions
- 8.3 Cross-Licensing Activities
- 8.4 Technology Partnerships
- 8.5 Government Programs
- 8.6 Future IP Strategies

9 REGIONAL PATENT ANALYSIS

- 9.1 North America
- 9.2 Europe
- 9.3 China
- 9.4 Japan
- 9.5 South Korea
- 9.6 India
- 9.7 Southeast Asia

9.8 Other Regions

10 EMERGING INNOVATORS

10.1 High-Growth Companies

10.2 University Spin-offs

10.3 Startups by Region

10.4 Venture Capital Activity

10.5 Unicorn Tracking

10.6 Disruptive Technologies

11 FUTURE TECHNOLOGY OUTLOOK

11.1 White Space Analysis

11.2 Threat Analysis

11.3 Opportunity Mapping

11.4 Future Leaders

11.5 Strategic Recommendations

12 COMPANY PROFILES

12.1 Linde plc

12.2 Air Liquide S.A.

12.3 Air Products and Chemicals, Inc.

12.4 Siemens Energy AG

12.5 Plug Power Inc.

12.6 Nel ASA

12.7 thyssenkrupp nucera AG & Co. KGaA

12.8 Cummins Inc.

12.9 Shell plc

12.10 Baker Hughes Company

12.11 Bloom Energy Corporation

12.12 Toyota Motor Corporation

12.13 Hyundai Motor Company

12.14 Panasonic Holdings Corporation

12.15 Ballard Power Systems Inc.

12.16 Mitsubishi Heavy Industries, Ltd.

12.17 Johnson Matthey Plc

12.18 ITM Power plc

12.19 Ceres Power Holdings plc

12.20 Enapter AG

13 LIST OF TABLES

Table 1 Hydrogen Patent Landscape Overview

Table 2 Patent Filing and Publication Trends

Table 3 Leading Patent Holders

Table 4 Patent Portfolio Comparison

Table 5 Patent Distribution by Technology Domain

Table 6 Geographic Patent Distribution

Table 7 Patent Citation and Quality Comparison

Table 8 Emerging Hydrogen Patent Innovators

14 LIST OF FIGURES

Fig 1 Hydrogen Patent Ecosystem

Fig 2 Global Patent Filing Landscape

Fig 3 Patent Filing Trend

Fig 4 Patent Technology Domain Distribution

Fig 5 Leading Patent Holders

Fig 6 Geographic Patent Distribution

Fig 7 Patent Citation and Innovation Network

Fig 8 Emerging Hydrogen Technology Patent Landscape

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