

# Global Green Hydrogen-Powered Data Center Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global Green Hydrogen-Powered Data Center market size is predicted to grow from US\$ 358 million in 2025 to US\$ 935 million in 2032; it is expected to grow at a CAGR of 14.8% from 2026 to 2032.

The Green Hydrogen-Powered Data Center is a new data center model that uses green hydrogen produced from renewable energy sources as its core energy source. This system utilizes green electricity from wind and solar power to produce hydrogen through water electrolysis. The stored hydrogen is then used to power hydrogen fuel cells, providing uninterrupted power to the data center's IT equipment and auxiliary facilities. The entire energy chain achieves a closed loop of 'green electricity to hydrogen production - hydrogen storage - hydrogen power generation,' producing only water and achieving zero carbon emissions. Compared to traditional grid power or diesel backup power, this solution not only completely eliminates carbon emissions and pollutants but also solves the intermittent nature of wind and solar power generation, enabling long-term energy storage and stable power supply. Green hydrogen-powered data centers represent a key technological path for the computing industry to achieve carbon neutrality and build zero-carbon computing power, signifying the future development direction of green data centers.

United States market for Green Hydrogen-Powered Data Center is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Green Hydrogen-Powered Data Center is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Green Hydrogen-Powered Data Center is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Green Hydrogen-Powered Data Center players cover Bloom Energy, DayOne, ECL, Energy Abundance Development Corporation, Microsoft, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the 'Green Hydrogen-Powered Data Center Industry Forecast' looks at past sales and reviews total world Green Hydrogen-Powered Data Center sales in 2025, providing a comprehensive analysis by region and market sector of projected Green Hydrogen-Powered Data Center sales for 2026 through 2032. With Green Hydrogen-Powered Data Center sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Green Hydrogen-Powered Data Center industry.

This Insight Report provides a comprehensive analysis of the global Green Hydrogen-Powered Data Center landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Green Hydrogen-Powered Data Center portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Green Hydrogen-Powered Data Center market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Green Hydrogen-Powered Data Center and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Green Hydrogen-Powered Data Center.

This report presents a comprehensive overview, market shares, and growth opportunities of Green Hydrogen-Powered Data Center market by product type, application, key players and key regions and countries.

Segmentation by Type:

Main Power Supply Type

Backup Power Type

Peak Shaving and Capacity Management Type

Combined Heat and Power Type

Segmentation by Hydrogen Source:

On-Site Hydrogen Production

External Hydrogen Supply

Segmentation by Application:

High-Performance Computing

Cloud Data Center

AI Data Center

Maritime Data Center

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Bloom Energy

DayOne

ECL

Energy Abundance Development Corporation

Microsoft

Mobii Green Energy

Plug Power

PowerCell

Yovole International & Greenlyzer

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