Hydrogen Fuel Cell: Global Markets

Market Research Report | 2024-11-12 | 139 pages | BCC Research

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Report description:

Description

Report Scope
The global hydrogen fuel cell market determines the segments by product type, technology, application and regional market analysis. This report covers the hydrogen fuel cells used in stationary, portable and mobile applications. The applications considered in this study are combined heat and power (CHP), stationary power supply units, auxiliary power units and vehicle propulsion systems. Other applications include fuel cell electrolyzers, which use electricity as input and produce hydrogen as output. These are not included in the scope of the report.
The market sizing has been provided in value ($ millions) and volume (gigawatts). The report also covers competitive intelligence, which covers the market share of prominent companies based on their product offerings and revenues generated from the fuel cell business. It also provides details of global market dynamics, emerging technologies and developments happening in the industry.
Report Includes
- 41 data tables and 60 additional tables
- An update on the global market for hydrogen fuel cell technology
- Analyses of the global market trends, with data from 2023, estimates for 2024, forecasts for 2025, 2027, and projections of compound annual growth rates (CAGRs) through 2029
- An evaluation of the market potential for hydrogen fuel cells in the stationery and transport power generation industry
- Forecast for the global hydrogen fuel cell market, and corresponding market share analysis by product type, technology, application, and region
- Discussion of the market dynamics (DROs), technology updates and industry value chain
- Insights into the industry structure, current competitive landscape, R&D activity, and a company value share analysis
- A discussion of ESG challenges and ESG practices in the industry
- Company profiles of major players within the industry, including Ballard Power Systems, Bloom Energy, Ceres, Doosan Fuel Cell

Co. Ltd., and FuelCell Energy Inc.

Executive Summary

Summary:

The increasing demand for sustainable energy sources across the hard-to-abate industries and technological advances to reduce cost and increase efficiency are among the major driving forces for the global hydrogen fuel cell market. The development of a hydrogen economy is crucial to speed up the commercialization of hydrogen fuel cells. The high cost and low competitiveness with conventional fuels, however, are major bottlenecks in the market's growth.

Fuel cells can be used for multiple stationary applications, including distributed power generation, backup power, cogeneration and power generation at remote locations. Fuel cells support almost all portable power applications, including batteries, handheld devices and portable gensets. The transportation industry showcased a new paradigm for hydrogen fuel cell applications. It includes passenger vehicles, medium-to-heavy duty vehicles, marine vessels, aircraft, industrial vehicles (e.g., forklifts) and other unmanned aerial vehicles (UAVs). It also offers auxiliary power to transportation vehicles.

Substantial global efforts are currently focused on fuel cell research and development (R&D). Governments, private research institutes, universities and private industries all recognize the potential market that could develop over the next 15 to 25 years. Current R&D is mainly focused on the development of reliable, low cost and high-performance fuel cell systems that can be used for a wide array of transportation, diesel generator (DG), utility and industrial applications.

To this end, several types of fuel cells are currently being developed. The report will provide a discussion and an intercomparison of the more common fuel cell technologies currently available or in development. The technology tends to suffer from two distinct drawbacks: it is expensive, and it is difficult to find qualified service providers for maintenance. Cost has been the challenge of the fuel cell industry since the technology's advent. Cost reductions predicted and projected by the industry and by researchers have materialized at a much slower pace than anticipated. The result is that fuel cells still primarily fill only a niche market.

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