

# **Global Fuel Cell Market By Application (Stationary Fuel Cell, Transport Fuel Cell & Portable Fuel Cell), By Type (PEM Fuel Cell, Solid Oxide Fuel Cell, Molten Carbonate Fuel Cell & Others), By Region, Competition, Forecast & Opportunities, 2013-2023**

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## **Abstracts**

Global fuel cell market stood at around \$ 2 billion in 2017 and is forecast to grow at a CAGR of over 18% to surpass \$ 5 billion by 2023, owing to increasing public-private partnership for development of fuel cell technology and rising demand for fuel cell powered vehicles, including FCEV (Fuel Cell Electric Vehicles), forklift, trains, etc. Moreover, rising research & development on fuel cell technology along with increasing focus on reducing carbon emissions is further fueling demand for fuel cells across the globe. Additionally, fuel cell & hydrogen alliances driving collaboration between organizations coupled with increasing focus on phasing out of ICE (Internal Combustion Engine) vehicles is further anticipated to accelerate growth in global fuel cell market in the next five years.

Years considered for this report:

Historical Years: 2013-2016

Base Year: 2017

Estimated Year: 2018

Forecast Period: 2019–2023

### Objective of the Study:

To define, classify and forecast global fuel cell market on the basis of application, type and region.

To analyze and forecast global fuel cell market size.

To assess the detailed market segmentation and forecast the market size by segmenting the fuel cell market into regions, namely – Asia-Pacific, North America, Europe and Rest of World.

To identify the tailwinds and headwinds for global fuel cell market.

To identify the drivers and challenges for global fuel cell market.

To strategically profile leading players in the market which are driving innovation and technological advancements in global fuel cell market.

Global fuel cell market is controlled by these major players, namely – Bloom Energy Corporation, Ballard Power Systems Inc., Plug Power Inc., FuelCell Energy, Inc., SFC Energy AG, Hydrogenics Corporation, Doosan Fuel Cell America, Inc., Toshiba Energy Systems & Solutions Corporation, Intelligent Energy Limited, Nedstack fuel cell technology BV, etc.

TechSci Research performed exhaustive secondary research as well as primary research for this study. Initially, TechSci Research sourced a list of fuel cell companies across the globe. Subsequently, TechSci Research conducted primary research surveys with the identified companies. While interviewing, the respondents were also enquired about their competitors. Through this technique, TechSci Research was able to include the providers which could not be identified due to the limitations of secondary research. TechSci Research analyzed the product offerings, distribution channels, and presence of all major fuel cell companies worldwide.

TechSci Research calculated the market size for fuel cell market using a bottom-up approach, wherein data for different components of standard application (Application, such as Stationary Fuel Cell, Transport Fuel Cell & Portable Fuel Cell and Type, Proton Exchange Membrane (PEM) Fuel Cell, Solid Oxide Fuel Cell, Molten Carbonate Fuel Cell, etc.) was recorded and forecast for the future years. TechSci Research sourced

these values from the industry experts and company representatives and externally validated through analyzing historical data of these product types and applications for getting an appropriate, overall market size. Various secondary sources such as Company Website, News Articles, Press Releases, Company Annual Report, Factiva, International Monetary Fund, World Bank, California Air Resources Board, Canadian Hydrogen and Fuel Cell Association (CHFCA), US Department of Energy, Fuel Cell & Hydrogen Energy Association, The International Partnership for Hydrogen and Fuel Cells in the Economy (IPHE), etc., were also studied by TechSci Research.

#### Key Target Audience:

Fuel cell vendors

Fuel cell equipment OEMs

Associations, organizations, forums and alliances related to fuel cell

Research organizations and consulting companies

The study is useful in providing answers to several critical questions that are important for the industry stakeholders such as fuel cell OEMs, providers, partners, etc. The report also provides useful insights about which market segments should be targeted over the coming years in order to strategize investments and capitalize on growth opportunities.

#### Report Scope:

In this report, global fuel cell market has been segmented into the following categories in addition to the industry trends which have also been detailed below:

##### Market, by Application:

Stationary Fuel Cell

Transport Fuel Cell

Portable Fuel Cell

##### Market, by Application:

Proton Exchange Membrane (PEM) Fuel Cell

Solid Oxide Fuel Cell

Molten Carbonate Fuel Cell

Others

Market, by Geography:

Asia-Pacific

Japan

South Korea

China

India

Australia

Rest of Region

North America

United States

Canada

Europe

Germany

United Kingdom

France

Italy

Spain

Rest of Region

Rest of World

## Competitive Landscape

**Company Profiles:** Detailed analysis of the major companies present in global fuel cell market.

### Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

### Additional Customization:

Profiling of additional market players (up to five)

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