

**Global and China Fuel Cell Industry Chain  
Report , 2019-2025**

**June 2019**

## **STUDY GOAL AND OBJECTIVES**

This report provides the industry executives with strategically significant competitor information, analysis, insight and projection on the competitive pattern and key companies in the industry, crucial to the development and implementation of effective business, marketing and R&D programs.

## **REPORT OBJECTIVES**

- ◆ To establish a comprehensive, factual, annually updated and cost-effective information base on market size, competition patterns, market segments, goals and strategies of the leading players in the market, reviews and forecasts.
- ◆ To assist potential market entrants in evaluating prospective acquisition and joint venture candidates.
- ◆ To complement the organizations' internal competitor information gathering efforts with strategic analysis, data interpretation and insight.
- ◆ To suggest for concerned investors in line with the current development of this industry as well as the development tendency.
- ◆ To help company to succeed in a competitive market, and

## **METHODOLOGY**

Both primary and secondary research methodologies were used in preparing this study. Initially, a comprehensive and exhaustive search of the literature on this industry was conducted. These sources included related books and journals, trade literature, marketing literature, other product/promotional literature, annual reports, security analyst reports, and other publications. Subsequently, telephone interviews or email correspondence was conducted with marketing executives etc. Other sources included related magazines, academics, and consulting companies.

## **INFORMATION SOURCES**

The primary information sources include Company Reports, and National Bureau of Statistics of China etc.

## Abstract

The thriving research on fuel cell is a result of global fossil fuel resources to be exhausted within a century. Hydrogen fuel cell as a kind of renewable resource has plenty of merits: (1) an energy conversion efficiency of as high as 50%-60%; (2) zero pollution, zero emission; (3) modular design, low maintenance cost; (4) many ways to produce hydrogen fuel since hydrogen is the most fundamental element in nature.

Global total sales of hydrogen fuel cell vehicles including passenger cars and buses exceeded 10,000 units between 2013 and 2018. Global ownership of fuel cell vehicles will surge to 5.01 million units in 2032 from 10,000 units in 2018, and sales revenue will soar from USD400 million in 2018 to USD255.2 billion in 2032, with accumulative total of USD1.2 trillion during the period. Fuel cell vehicle will be the fastest-growing automobile market segment worldwide before 2050.

Global fuel cell market will be worth RMB328.1 billion in 2025, including RMB2 billion of the portable type, RMB141.9 billion of the fixed type and RMB184.2 billion of those for transport equipment. Fuel cell vehicle market will boom after 2020.

By the end of 2018, there had been more than 13 cities in China working on demonstration and promotion of fuel cell vehicles, including Yunfu City and Foshan City in Guangdong, Chengdu in Sichuan, Shanghai, Beijing, Zhangjiakou in Hebei, Xinbin Manchu Autonomous County in Liaoning, Wuhan in Hubei, Zhengzhou in Henan, Rugao City, Yancheng City and Suzhou City in Jiangsu, and Datong City in Shanxi. Vehicles piloted in these cities cover fuel cell buses, fuel cell coaches, fuel cell light buses and fuel cell logistics vehicles.

Among the 1,527 units of fuel cell vehicles sold in China in 2018, 1,418 units, or 93% of the total, were fuel cell buses; 109 units, or 7% of the total, were fuel cell trucks. It can be seen that buses were the mainstream product. In 2018, China's shipments of fuel cell stack for vehicles approximated 50MW, and key suppliers were Sunrise Power Co., Ltd., Shanghai Re-Fire Technology Co., Ltd., Bing Energy Inc. and Beijing SinoHytec Co., Ltd..

Fuel cell vehicle market will take off after 2020, with its annual sales expected to post 3 million units around 2030.

Global and China Fuel Cell Industry Chain Report, 2019-2025 highlights the following:

- Fuel cell (classification, applications and development trends);
- Global fuel cell industry (overview, patent, shipments, market size, etc.);
- Fuel cell development in Japan, South Korea, Europe, the United States, China, etc., and the gap between the Chinese market and the global market;
- Global fuel cell vehicle industry chain (including fuel cell system, cell stack, components, hydrogen fuel, etc.) (mainstream suppliers, technology, cost, etc.);
- 7 global fuel cell system manufacturers (operation, technology, development plan, and output & sales) ;
- 10 Chinese fuel cell system manufacturers and 10 suppliers on the industry chain (operation, technology, development plan, and output & sales).

### **1 Overview of Fuel Cell**

- 1.1 Operating Principle
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- 1.3 Applications
- 1.4 Development Trends

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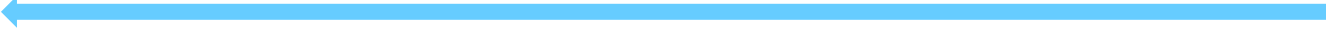
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