

# Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Hydrogen and Fuel Cells Market 2018, Forecast to 2023

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## Abstracts

Hydrogen and Fuel Cells use hydrogen as a chemical element, and are made into batteries that store energy. The basic principle is the reverse reaction of electrolysis of water, hydrogen and oxygen were supplied to the cathode and anode, hydrogen diffusion through the cathode and the electrolyte reaction, the release of electrons through the external load to reach the anode.

### SCOPE OF THE REPORT:

This report focuses on the Hydrogen and Fuel Cells in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

North America was the largest consumption market with a market share of 56.55% in 2012 and 60.27% in 2016 with an increase of 3.72%. Japan ranked the second place with the market share of 15.51% in 2016.

Nowadays, the top three companies make up more than 30.76% market share of the Hydrogen and Fuel Cells market in 2016, and the world's large enterprises are mainly concentrated in North America and Japan. The top three manufacturers are Fuel Cell Energy, Panasonic and Plug Power. They respectively with global production market share as 10.88%, 10.02%, and 9.86% in 2016.

Hydrogen and Fuel Cells are widely used in Stationary, Transport, Portable etc. In 2013 – 2014, the industry experience an obvious growth, but with the market returning to a reasonable state, from 2015, the market growth rate fell to a steady level.

The worldwide market for Hydrogen and Fuel Cells is expected to grow at a CAGR of roughly 14.9% over the next five years, will reach 3010 million US\$ in 2023, from 1310

million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Fuel Cell Energy

Panasonic

Plug Power

Intelligent Energy

Toshiba

Hyster-Yale Group

Ballard Power Systems

Doosan Fuel Cell

Nedstack

Hydrogenics

Pearl Hydrogen

Sunrise Power

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Air-cooled Type

Water-cooled Type

Market Segment by Applications, can be divided into

Stationary

Transport

Portable

There are 15 Chapters to deeply display the global Hydrogen and Fuel Cells market.

Chapter 1, to describe Hydrogen and Fuel Cells Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Hydrogen and Fuel Cells, with sales, revenue, and price of Hydrogen and Fuel Cells, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Hydrogen and Fuel Cells, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Hydrogen and Fuel Cells market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Hydrogen and Fuel Cells sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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