

# 2018-2023 Global Direct Methanol Fuel Cell (DMFC) Consumption Market Report

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## Abstracts

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In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global Direct Methanol Fuel Cell (DMFC) market for 2018-2023.

The direct methanol fuel cell (DMFC) is a relatively recent addition to the suite of fuel cell technologies; it was invented and developed in the 1990s by researchers at several institutions in the United States, including NASA and the Jet Propulsion Laboratory. During decades of research, especially around 2010, many high tech companies like NEC, UltraCell they all have dedicated a large mass of R&D source into DMFC, and they all exhibited their prototype of their own DMFC. But as the fact, there are only two companies focus on commercial productions. This report only study the DMFC market will full-time commercial production participants. DMFCs can be seen as one of the most prominent fuel cell technology to be used as a generator and production device in small portable applications due to its high energy storage density fuel, fast refuelling and capability to refuel during operation.

The Direct Methanol Fuel Cell (DMFC) is a subset of the Proton Exchange Membrane (PEM) fuel cell technology. PEM fuel cells have a number of features and advantages that ensure their usage in a variety of power applications including portable and transportation systems to large-scale stationary power systems for buildings and distributed generation. The commercialization of DMFC-systems is driven by consumer demands and desires for secure and reliable power sources that operate alone or as a hybrid energy system combining the fuel cell technology with existing advanced battery technologies.

At present, in developed countries, the Direct Methanol Fuel Cell industry is generally at a more advanced level. The world's large enterprises are mainly concentrated in USA

and Europe. The DMFC market is monopolized by SFC Energy AG and Oorja Protonics. There are other company like Fujikura, Hitachi, Ltd, Toshiba, Sony, MTI Micro Fuel Cells Inc, NEC Corp, Neah Power Systems which are under developing in the industry but no mass production.

Over the next five years, LPI(LP Information) projects that Direct Methanol Fuel Cell (DMFC) will register a 7.2% CAGR in terms of revenue, reach US\$ 140 million by 2023, from US\$ 100 million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of Direct Methanol Fuel Cell (DMFC) market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated from the sales of the following segments:

Segmentation by product type:

?1 KW

1 KW-5 KW

Segmentation by application:

Defense&Security

Mobility&Industrial Application

Leisure

Materials Handling Equipment

Telecommunications

Other

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

Spain

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

SFC Energy AG

Oorja Protonics

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

## **RESEARCH OBJECTIVES**

To study and analyze the global Direct Methanol Fuel Cell (DMFC) consumption (value & volume) by key regions/countries, product type and application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of Direct Methanol Fuel Cell (DMFC) market by identifying its various subsegments.

Focuses on the key global Direct Methanol Fuel Cell (DMFC) manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the Direct Methanol Fuel Cell (DMFC) with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of Direct Methanol Fuel Cell (DMFC) submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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