

Planar Solid Oxide Fuel Cell Market by Cost Breakdown (Planar Cells, Separator Plates, Manifolds, Seals, and Others), Application (Stationary, Transportation, and Portable) & by Region (Asia-Pacific, North America, Europe, and Rest of the world) - Global Trends & Forecast to 2020

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Abstracts

This report estimates the planar solid oxide fuel cell (SOFC) market, in terms of value (\$million). The estimated value of the market for planar SOFC is around \$ 362.0 million in 2015 and projected to grow to reach a value of \$ 639.2 million in 2020. The market has been broken down into regions, further split to country level forecasting.

An SOFC is a converter technology that produces electricity directly from the electrochemical oxidation. It uses an electrochemical conversion process, in which an electrolyte material is used to convert negative oxygen ions to the anode from the cathode. SOFC has a wide variety of applications, from auxiliary power units in vehicles to stationary power generation, with outputs from 100 W to 2 MW.

The market is also segmented on the basis of application as follows:

Portable: Portable fuel cells refer to fuel cell units which are designed to be stimulated. They include fuel cell APU and consumer electronics

Stationary: Stationary fuel cells refer to fuel cell units which are designed to provide power at a fixed location. These include small and large stationary prime power, backup/uninterruptible power supplies, combined heat and power, and combined cooling and power



Transportation: Transportation fuel cells refer to fuel cell units that provide propulsive power or range extender function to vehicles, including UAV, cars, buses, and material-handling vehicles

The research methodology used in the report involved the use of secondary sources such as encyclopedias, directories, and databases to identify and collect information that was useful for this extensive commercial study of the global planar SOFC market. Primary sources, such as experts and suppliers from the industry, have been interviewed to obtain and verify critical information, as well as to assess the future prospects of the market.

This study has profiled leading players of the industry, along with their recent developments and other strategic industry activities. Some of the key companies profiled include Aisin Seiki Corporation Limited (Japan), Delphi (U.S.), Ultra Electronics AMI (U.K.), Fuel Cell Energy (Houston, U.S.), Ceramic Fuel Cells Limited (Australia), and Ceres Power Holdings (U.K.).

Asia-Pacific leads the planar SOFC market. It holds the largest market share and is projected to grow at the highest CAGR. This growth is attributed to the high adoption level of the technology in countries such as Japan and South Korea at a commercial level. Market opportunities exist in the form of stationary power generation technologies based on planar SOFC in developed regions such as North America and Europe.

This report segments the market into various regions—namely, Asia-Pacific, North America, Europe, and the Rest of the World. It includes an in-depth country-level analysis, based on application and cost breakdown. The country-level analysis provides market sizes, by value, based on revenue and expenditure in regions for various segments considered in the study.



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About

The SOFC market is dominated by few leading industry players owing to their technological advantage, regional demand, and strong financial positions. This trend is expected to continue over the next five years as well with the few more market players commercializing their products.

The global SOFC market can be segmented into mainly four types of applications. These are small stationary, large stationary, transportation, and portable & military applications. All the different types of SOFCs fit into these four segments.

The governmental initiatives and the support provided to the research, and commercialization is the pivotal factor for the SOFC manufacturers to commercially produce their systems. The technological evolution of SOFC has become more rapid over the last decade due to government support.

The key growth driver for the industry is the high electrical efficiency and versatility of applications of SOFC, when compared to other types of fuel cells. This facilitates the use of SOFC for almost all types of fuel cell applications. Many market players have thus adopted SOFC technology or are planning to develop the technology.

The cogeneration application of SOFC system is looking to replace the traditional cogeneration systems. SOFCs provide better biomass utilization and hence, are more eco-friendly.

The SOFC market is segmented on the basis of technology type as planar, tubular, and others. Planar types are more costly when compared to tubular. Other types consist of thin-film and steel fuel cell technologies which are not commercialized.

The leading companies are adopting agreements & collaborations techniques in order to increase technical competencies and grow their business in various regions.

Asia-Pacific region is the single largest market for the SOFC industry followed by North America. Asia-Pacific market is driven by the demand for household small stationary systems, which provide heat and power to the household. In North America, the demand for large stationary applications is very high.



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