

Global Solid Oxide Fuel Cell (SOFC) Market 2018 Industry Research Report

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Abstracts

This report studies the Solid Oxide Fuel Cell (SOFC) market status and outlook of global and major regions, from angles of manufacturers, regions, product types and end industries; this report analyzes the top manufacturers in global and major regions, and splits the Solid Oxide Fuel Cell (SOFC) market by product type and applications/end industries.

The global solid oxide fuel cell market is estimated to reach \$ 407.53 million by 2017, with a projected CAGR of 13%, signifying an increase in demand for a clean and emission free power source that is fuel cells.

Solid oxide fuel cells are emission free power sources, which run on electrochemical conversion reactions. SOFC use ceramic electrolytes that are hard and non-porous in nature. As the electrolyte is a solid, the cells are not necessarily constructed in a plate-like configuration as seen in other fuel cell types. Electrical efficiency provided is around 50% to 60%. In applications designed to capture and utilize the system's waste heat (cogeneration), the overall fuel use efficiency could top 80% to 85% and operate at very high temperatures of around 1,000°C (1,830°F). The unique properties of solid oxide fuel cell such as portability, long-term stability, easy fuel selection, and emission-free power serve this requirement. These cells have vast applications, with military applications expecting the highest growth. Planar SOFC has been identified to be the dominating fuel cell in the market for its versatility. Asia-Pacific is the leading market for SOFC with Japan and South Korea dominating the region.

The major players in global Solid Oxide Fuel Cell (SOFC) market include

Bloom Energy

Siemens Energy

Aisin Seiki

Mitsubishi Heavy Industries

Delphi Corp

GE

Convion

FuelCell Energy

Atrex Energy, Inc

SOLIDpower

ZTEK Corporation

Redox Power Systems

Ceres

Elcogen

Geographically, this report is segmented into several key Regions, with production, consumption, revenue, market share and growth rate of Solid Oxide Fuel Cell (SOFC) in these regions, from 2013 to 2025 (forecast), covering

North America

Europe

China

Japan

Southeast Asia

South Korea

On the basis of product, the Solid Oxide Fuel Cell (SOFC) market is primarily split into

Tubular

Planar

Others

On the basis on the end users/applications, this report covers

Transportation

Portable & Military

Stationary

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