

# Assessment of China's Market for Fuel Cells

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## Abstracts

This LPS provides an in-depth understanding of the market for fuel cells

### Market in Mainland China.

The report is based on a study of the production, sales, distribution and application of proton exchange membrane fuel cells (PEMFC). A quantitative and qualitative assessment of the following are included:

Market Figures

Competitive Analysis

Channel Analysis

Growth Rates & Forecasts

Market Opportunities

The following figure shows a breakdown of the interviews conducted for this study.

The high cost of the products, which exclusively use PEM technology and poor availability of hydrogen are the major inhibitors in the market.

Factors such as intellectual property security have dissuaded foreign companies from selling into the domestic market. Fuel cells are mostly used as showpieces and in academia, with one example of commercial use in China recorded.

## Definitions

**Fuel Cell:** A fuel cell is a generator of electrochemical energy. It consists of two reactant gasses (hydrogen and oxygen), conductors (anode, cathode and electrolyte), and a catalyst.

Energy conversion occurs when a hydrogen molecule at the anode comes into contact with the catalyst, splitting it into two hydrogen atoms that exothermically release their electrons, which travel through a circuit.

This is a small market, with RMB 25 million in revenues attributed to the domestic market and RMB 106 Mn when exports are included. The high cost of fuel cells relative to its substitutes is the main reason for this.

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Shanghai Qingneng(????????????????)

Hongyuan Fuel Cells(?????????)

Shanghai Tuxin Electric(????????????????)

Shanghai Panye(????????????)

Jiangsu Huayuan(????????????????)

Dalian Xinyuandongli(????????????????)

Shanghai Boneng(????????????????)

Shanghai Shen-Li High Tech(????????????)

Wuhan Ligong New Energy(?????????)

Wuhan Yintai(????????????)

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