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## Fuel Cells

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Johnson Matthey Fuel Cells is a world leader in the production of catalysed components for use in fuel cells, a technology for generating low carbon power



The business is headquartered at Lydiard Fields in Swindon where it employs more than 100 people. It also has access to a global network of technology centres and sales offices around the world.

The manufacturing facility in Swindon was opened in 2002 and was the **world's first dedicated production facility** for membrane electrode assemblies (MEAs). MEAs are the key component at the heart of proton exchange membrane (PEM) fuel cells, the leading technology behind hydrogen powered transport, portable and residential fuel cells.

Visit the Johnson Matthey Fuel Cells website.

### About Fuel Cells

#### Benefits of Fuel Cells

Fuel cell power sources have several benefits:

- Zero or low carbon emissions

- Lower fuel bills
- Non-polluting.

### How Fuel Cells Work

Fuel cells generate power by directly combining a fuel (usually hydrogen) and oxygen from the air to produce electricity, heat and water. They use an electrochemical process to produce a direct current, without combustion and without moving parts. A fuel cell can therefore generate power cleanly, quietly and efficiently near to its point of use. Its potential applications include replacing batteries for portable electronic equipment, delivering heat and power for buildings and providing zero emission power for transport.

### Fuel Cell Uses

In principle, fuel cells could be used to power any device that requires electrical energy to function. Our Swindon facility is meeting the first commercial applications of fuel cells which range from small battery chargers to systems that can meet the heat and power needs of a supermarket or office building. Johnson Matthey is also working to support the global automotive industry's programmes to launch commercial fuel cell vehicles.

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