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## ITM Power GmbH

<http://www.itm-power.com>



### ITM Power GmbH

Am Muhlgraben 6  
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### Products / Applications Certificates

**ITM Power manufactures and supplies integrated hydrogen energy solutions. ITM Power operates out of two premises in Sheffield, UK with further offices in Germany, France, USA and Australia.**

Based on the modular HGas electrolyser design, ITM Power can provide turnkey solutions for a broad range of applications including clean fuel, energy storage, and chemical feedstocks. ITM's PEM electrolyser has rapid response and high-pressure functions that meet the requirements for grid balancing and power-to-gas applications.

**Projects:**

FIRST HYDROGEN REFUELLING STATION WITH SHELL OPENS

LARGE SCALE POWER-TO-GAS ENERGY STORAGE DEPLOYMENT STUDY WITH NORTHERN GAS NETWORKS

WORLD'S FIRST TIDAL-POWERED HYDROGEN GENERATED AT EMEC

10MW REFINERY HYDROGEN PROJECT WITH SHELL

FIRST HYDROGEN BUS ROUTE IN FRANCE

GRID BALANCING BUS REFUELLER in UK

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## Products / Applications

## HGas



The HGas electrolyser system allows users to efficiently convert excess renewable power into hydrogen which can be injected into the natural gas network for long-term storage, used in the process to produce Synthetic Natural Gas, dispensed to vehicles as a clean fuel or used as a chemical feedstock.

### Features and benefits include:

- Rapid response PEM electrolyser technology
- Full system integration
- Modular design
- Differential pressure
- High purity

HGas	Specs
System power	0.1 -100MW
H2 production rate	45 - 40,000kg/24h
H2 pressure	20bar (50bar optional)
H2 purity	99.5-99.999%
Packaging	ISO containers or indoor installation

## Hydrogen Refuelling



Hydrogen fuel is the cleanest available. It can be generated from renewable energy and water using an ITM Power

electrolyser. When used, the only emission is water vapour. It is practical too; hydrogen vehicles can be fully refuelled in a few minutes and have a range comparable to petrol or diesel. Hydrogen is one of the key strategies to decarbonise public, private and heavy-duty transport and the key to a quicker, wider and more cost efficient electrical vehicle uptake.

### Power-to-Gas Energy Storage



Power-to-Gas Energy Storage is a scalable technology capable of absorbing power from the electricity grid at times when supply exceeds demand, and when intermittent renewable generation causes network stability problems. Power-to-Gas is a technique which enables electrical power to be converted to chemical energy in the form of hydrogen, which can be stored directly as hydrogen, injected and stored in the natural gas network or used to create synthetic natural gas by reacting with CO<sub>2</sub> (SNG).

### Industrial Hydrogen



Renewable hydrogen provides the global chemical industry with an opportunity to reduce its dependence on methane while balancing site energy consumption.

## Certificates

**ISO 14001**



**ISO OHSAS 18001**



**ISO 9001**



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