

Smart and intelligent

Compactness as Key to intelligent sustainable Energy turnaround

Today, together with industrial partners, Hydrogenics has already developed technologies that are decisive for a successful energy turnaround. Along with this, energy density and compactness play an important role.

Based on Hydrogenics' Electrolyzer technology, several plants in the Megawatt size are in operation or in the building phase, which are applied explicitly for the storage of renewable energies. The specialty: latest generation PEM Electrolyzer Stacks are exceptionally compact and require less than one cubic meter of space per Megawatt input power.

Therefore, the space requirement is reduced to a minimum and there are practically no limits for application versatility. Whether decentralized, e.g., directly at the foot of a wind turbine, or as a central plant in the Gigawatt range, the compactness and the flexibility of the plant footprint enable new possibilities for the environmentally clean storage of renewable energy.

The uses of the hydrogen though is very versatile, e.g., feed into the natural gas grid, methanisation (SNG), industrial processes, building heating, electricity or vehicle fueling stations.

In this way a decoupling of the renewable energy from - the place where - and time when - it is generated – while at the same time, purpose-appropriate availability, is an immediate reality by means of generation and storage of hydrogen with renewable energies.

This year Hydrogenics exhibits the theme of compactness in the foreground, because an energy turnaround can only be successful, when the required technologies are powerful, but above all compact. This is valid as well as for electrolyzers as for fuel cells.



Visitors of our exhibition stand at this year's Hannover Fair can convince themselves that 'powerful' and 'compact' are not at cross-purposes and are in focus at Hydrogenics.

We look forward to your visit and interesting discussions.

You will find us in Hall 27, Booth C59



HANNOVER MESSE 2014

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GRUPEXHIBIT

HYDROGEN

FUEL CELLS

BATTERIES