

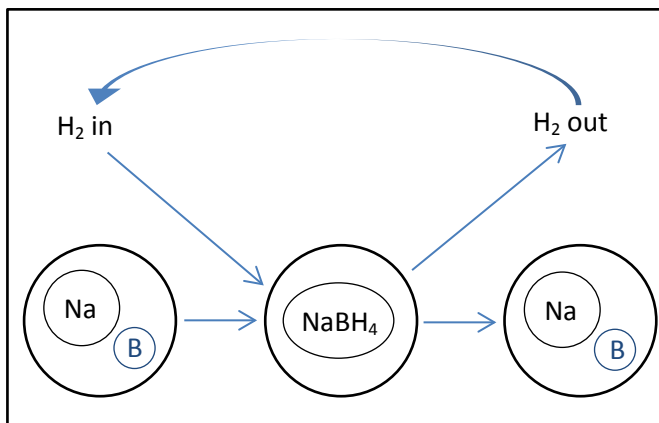
## A world-first material to effectively store hydrogen for use as a safe, carbon emission free energy source

Energy generated from renewable sources, like wind or solar power, is difficult to store and therefore unable to supply demand when weather conditions are unfavourable. A viable energy storage system is therefore vital.

### The Technology

A material to effectively store hydrogen: by incorporation of the Hydrogen into a solid material, as depicted below, this is the safest storage method in comparison to gas or liquid solutions.

This invention leads the field in terms of hydrogen storage and opens up a real possibility for extensive adoption of hydrogen fuel as a safe and carbon free alternative to today's fossil fuels.



Effective Hydrogen storage.

### Key Benefits

- **Compact** high-density storage capacity: a 10-fold reduction in H<sub>2</sub> storage volume.
- **Safer** H<sub>2</sub> storage.
- **Scalable** for both domestic and industrial applications.
- **Versatility** to couple this Hydrogen storage material to renewable energy sources.



Hydrogen has enormous potential as an energy storage medium. This invention provides the key to safer, more compact hydrogen storage.

### Application

Hydrogen fuel industry, in particular, Hydrogen storage solutions.

### The Opportunity

We are seeking potential research collaborators and industry partners to further develop the invention.

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