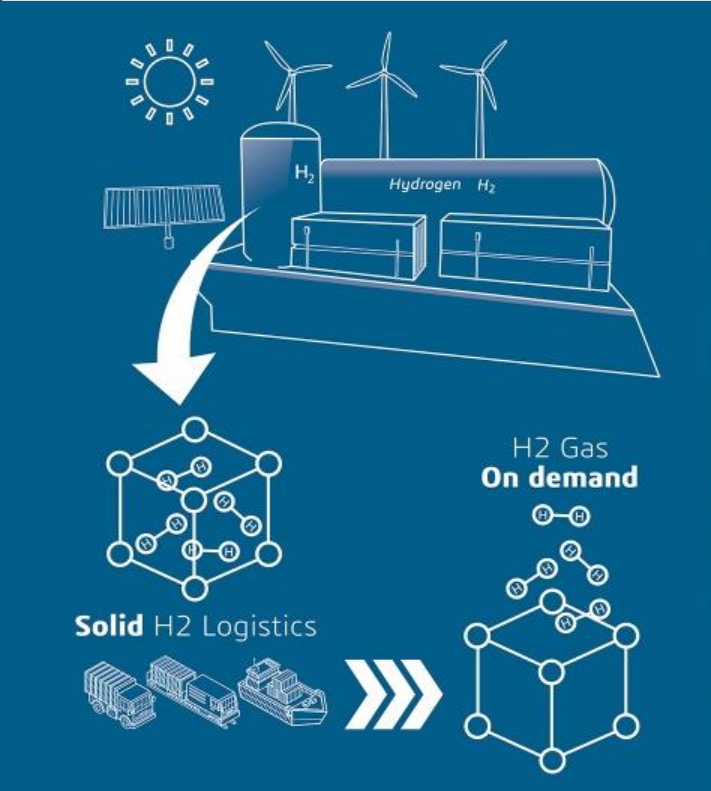


Galaxy FCT is a H<sub>2</sub> technology company with a patented process (worldwide pending) which enables RAPID and EFFICIENT release of H<sub>2</sub> gas from a solid feedstock. Sodium Borohydride is energy dense, non-flammable, non-explosive and can be stored at ambient temperature without pressure. This makes logistics safe; cost-effective and infrastructure light and there’s no need to fight the physics of H<sub>2</sub> throughout the supply chain. H<sub>2</sub> gas will only be released “on-demand” at user location.



**IF WE could  
move Hydrogen  
in SOLID, Can  
We Bring  
Forward Global  
Net Zero?**

**Galaxy FCT – part of the Dassault System  
3DS Accelerator Program 2021**

## Two Principal Reasons why, the World may need Solid Hydrogen Logistics

### “Infrastructure-Light.”

Most climate solutions today are extremely infrastructure intensive. This may work in rich nations, with large concentration of volume users. But for the rest of the world – which houses 80% of the world’s population, it costs way too much. Unfortunately, this is also WHERE the battle for our Climate Future will be won or lost. So, in addition to whatever else we have today, the world ALSO needs Infrastructure Light solutions that can Scale. “H<sub>2</sub> in Solid” fills this need.

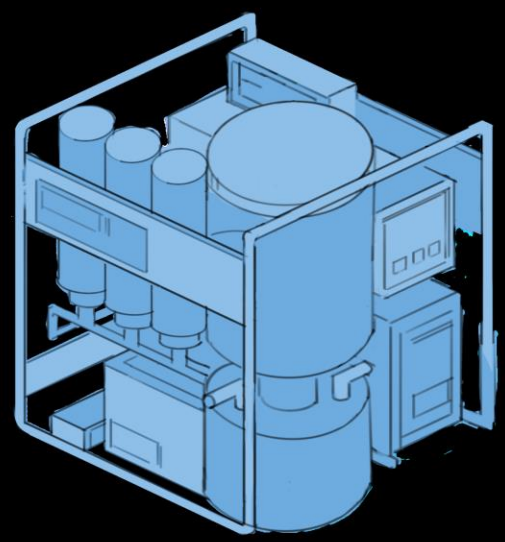
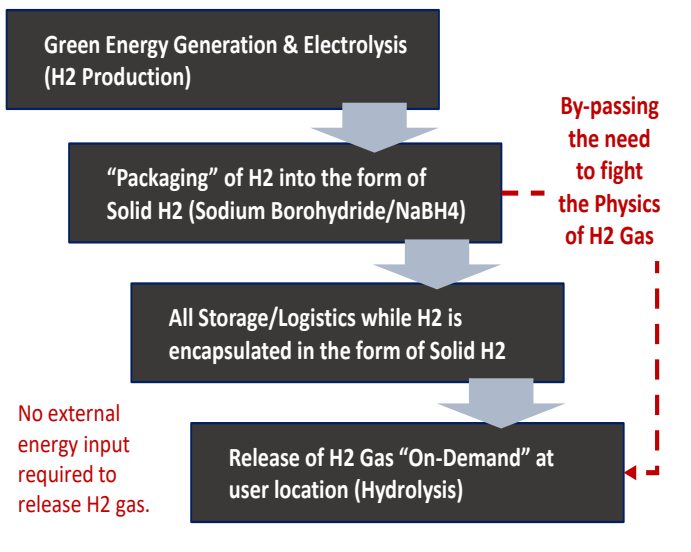
### “Long-Term Energy Storage”

Batteries are good for “time shifting”, but they are NOT GOOD with long term storage. Any battery used just several times a year would be nothing short of an economic disaster.

If we are serious about replacing fossil fuels, we will need lots of green energy molecules which can be stored for long periods, in a way which is simple, cheap, and safe. Again, “H<sub>2</sub> in Solid” fills this gap.

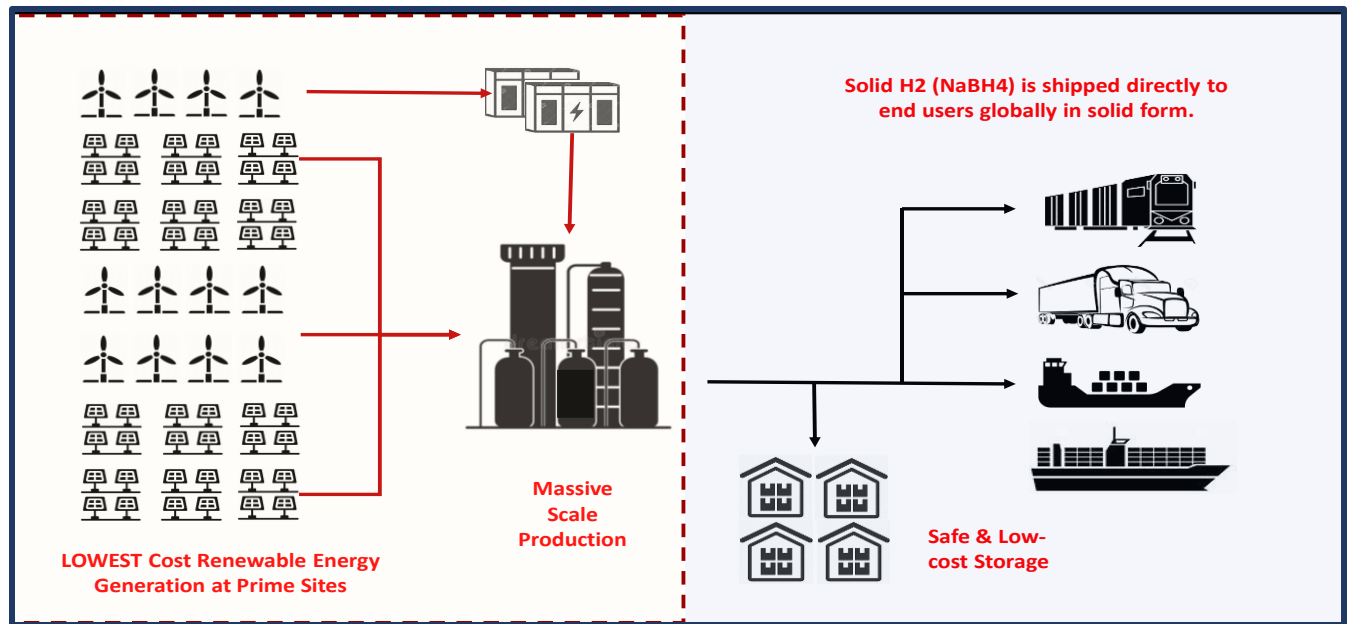
# Hydrogen in "SOLID"

# Solid HyGEN



## HYPERSCALING – Key to True Scalability

Production costs of Sodium Borohydride must be brought down substantially for "H2 in Solid" to truly scale. THIS reduction can be achieved through "HyperScaling" - a combination of massive scale production with lowest cost renewables, backward integration of raw materials, and better processes for production. With "H2 in SOLID", all finished products can be shipped directly to end users wherever they may be, AND there will no longer be any need to rely of transmission infrastructure or pipelines – which is always the most problematic link in the chain.



HyperScaled implementation will also create a massive demand surge for all associated renewables (solar, wind, batteries, electrolyzers and fuel cells). This will trigger "learning curve" cost reductions, igniting a virtuous cycle - which will reduce prices all round. In time, we WILL be able to turn remote deserts into giant green oilfields to power our future.

Accelerating the growth of this ecosystem requires as many stakeholders as possible. The greater the scale, the more rapid the progress, and the more likely we can all succeed in growing this exciting new ecosystem which will be key to securing a more hospitable planet and a "better tomorrow."