

Executive summary

What we achieved and what we are working on

What we achieved

Technology

- 1st prototype under construction
- Pressure regulator (250 bar)
- Carbon fiber shell prototype
- Concepts for battery casing, charging & swapping

Business

- SEED funding rounds
- Technology & business partner network
- 2 Innovation awards

Next steps (2024/2025)

Technology

- 250 bar aluminum SFEER
- Battery casing prototype
- Carbon fiber shell incl prototype production plant

Business

- Go to market: stationary (250 bar aluminum)
- Partnering with fuel cell company to address Swedish telecom market

Long-term vision (2026-2028)

Technology

- 1000 bar carbon fiber version application specific battery (e.g., trucks)
- Charging & swapping technology

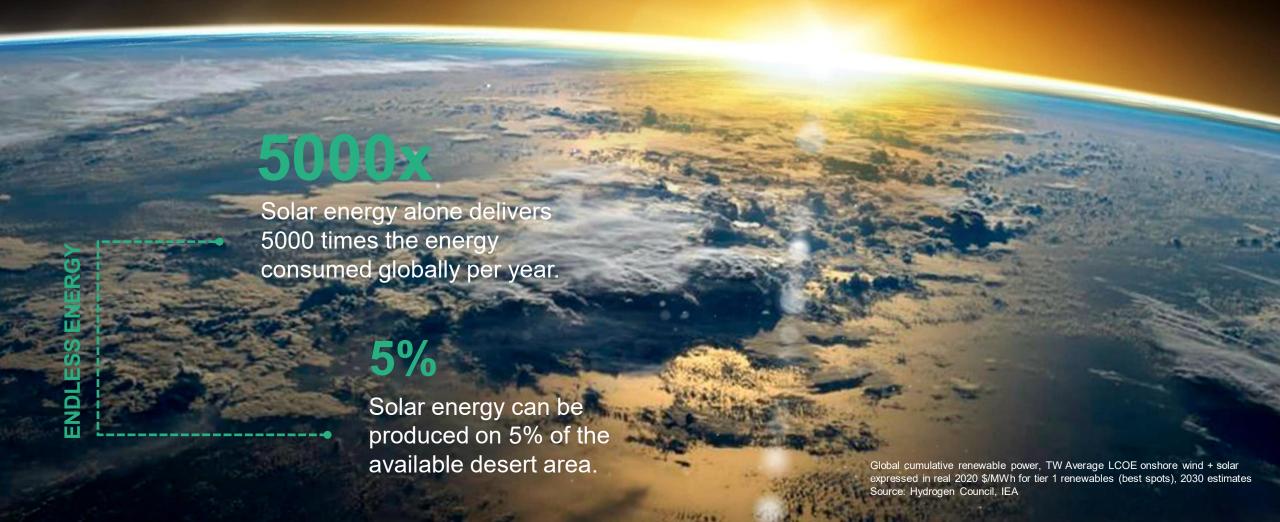
Business

- Go to market with 700 & 1000 bar version (mobility)
- 700 bar version for stationary

Our innovative **H2 Battery** is a **2-in-1 solution** that not only ensures **safe** and **easy** hydrogen distribution but also seamlessly integrates into **various applications** at an unprecedented **cost efficiency**.

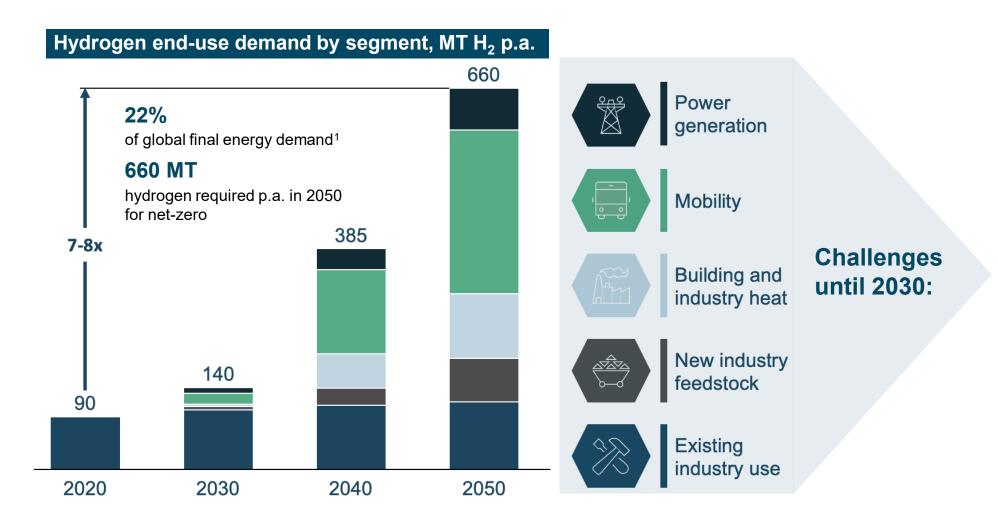


Infinite renewable energy cycle with hydrogen from water and sun



Strong H2 market growth after 2030 with focus on mobility

But some challenges need to be solved to make this development come true

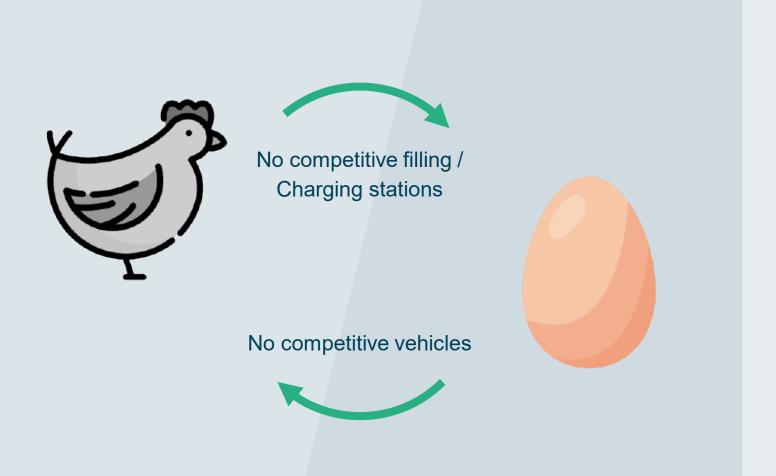


- No efficient
 technology for
 H2 storage and
 distribution
 available to
 decarbonize several
 sectors
- The lack of hydrogen infrastructure is still a major obstacle for mobile applications in particular



Unique business opportunity that breaks chicken & egg

Decarbonization in the heavy-duty mobility transition not successful so far





- High H₂ / energy prices not competitive
- No Business Case for End Customer & Fleet Operator
- No Business Case for H₂ / Energy Provider



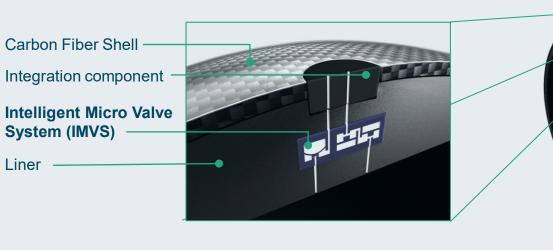
H2-Battery a 2 in 1 solution

Safe, simple and cost efficient hydrogen fuel and vehicle storage

H2-SFEER

Miniaturized high pressure cell (up to 1,000 bar)

→ High safety redundancy



• Spherical shape: 50% less carbon fiber than for cylinders

 Passive micro-mechanical flow and pressure control

BATTERY

Low pressure tank (4-15 bar)

→ Easy handling, low-cost, high-energy capacity



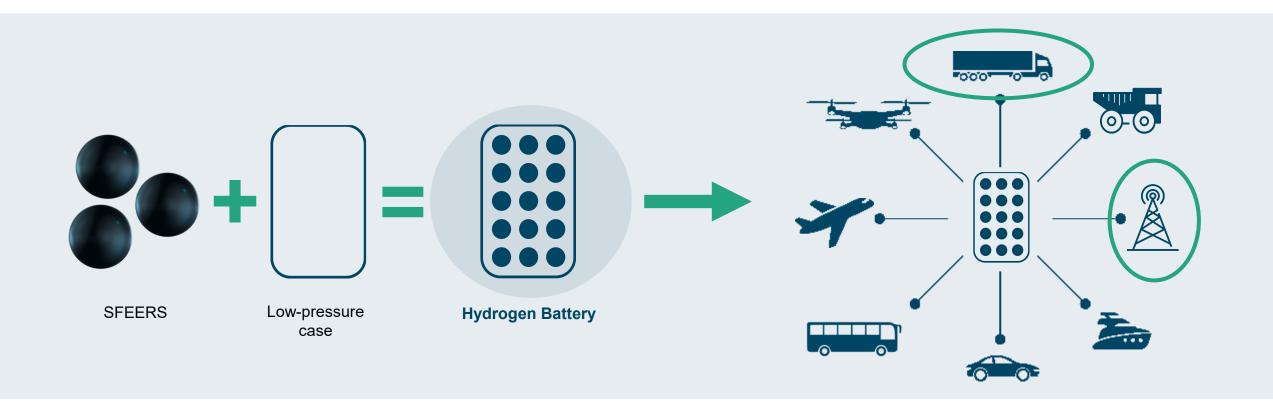
- Size and shape adapted to available spaces
- Swappable for fast & economic fuel refill of the vehicle



^{*} The SFEERS/H₂-battery enabling technologies are WSS-proprietary and protected through a number of global patents, the IMVS is being developed by experienced engineers and scientists with a proven track record of developing space rocket micro propulsion systems

SFEERS are assembled to modular hydrogen batteries

The hydrogen battery: a sustainable swap system that drives the energy transition

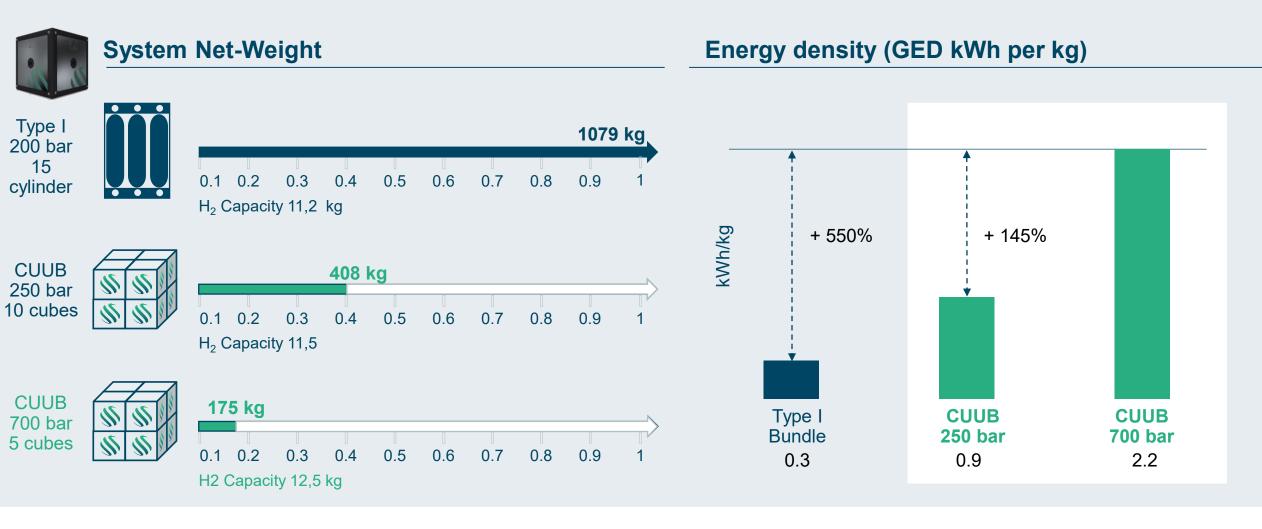


The hydrogen battery is a **highly modular system** that enables a variety of **mobile as well as stationary applications** to switch to renewables.



Stationary: H₂ battery CUUBs much lighter with same capacity

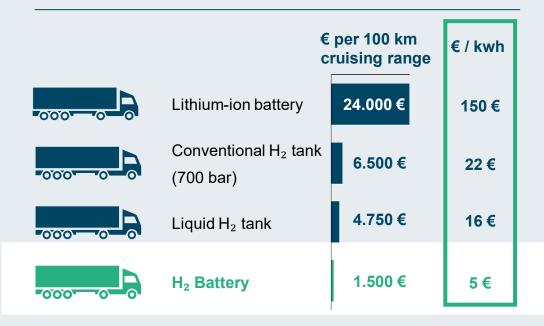
Comparison of H2 battery CUUBs with standard Typ 1 bottle bundles



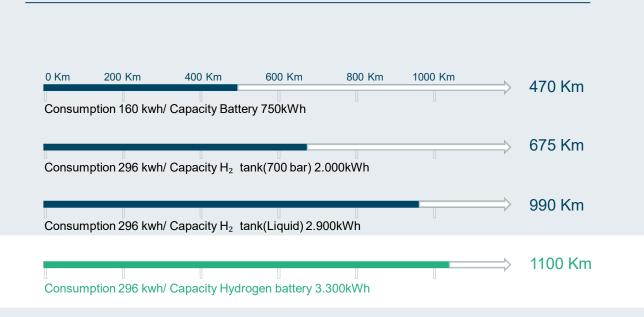
Mobility: H₂ battery with considerable advantages

Lower costs and higher performance compared to competitive energy storage

Energy storage costs (long haul truck)



Cruising range (long haul truck)

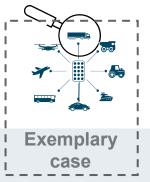


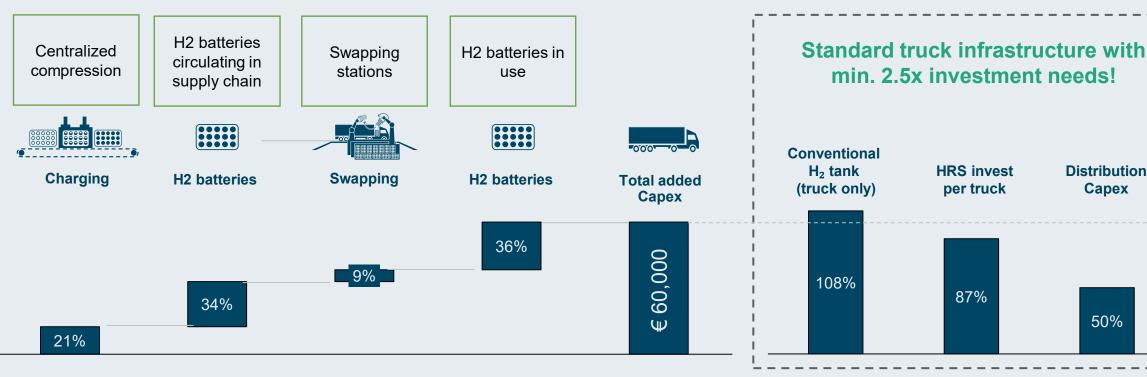
The hydrogen battery: high performance & cost-efficient energy storage technology



No infrastructure? Build it at low costs!

H2 battery infrastructure: lower capex needs than conventional in-truck tanks only





87% 50%

Complete H2 infrastructure saves at least 60% capex compared to standard H2 infrastructure!

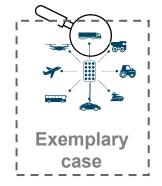


Distribution

Capex

Truck market: strong cost advantage

SFEER used for regional distribution (300km) – truck case





Multi-step go-to-market approach

Early market entry with competitive 250-bar bus system followed by truck markets

2025: 250 bar version

Stationary applications

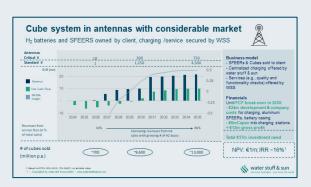


Business model

- H2 batteries sold to client
- WSS ensures H2 battery charging (H2 supply) & service

Clients

Telecom companies in Sweden



2027: 700 bar version

700/1000 bar version

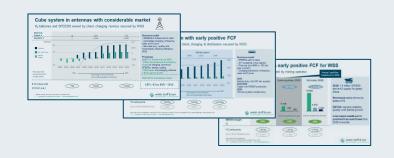


Business model/clients (stationary)

Equal to 250 bar system

New

- 700 bar carbon fiber SFEER with higher capacity
- For first mobility applications (e.g., bus) possible



2028: 1000 bar version

1000 bar version



Business model

- Infrastructure owned by WSS/partners
- WSS ensures H2 supply

Clients



- Truck OEMs (H2 battery)
- Truck operators (H2)





Our Investors

What some of our investors say about our technology

""

"With our investment in water stuff & sun (WSS), we are supporting a start-up that brings enormous opportunities and disruptive potential to shape the energy transition.

The immense versatility of the technology is impressive, and we look forward to accompanying WSS in the further development phases."

Ralf SonnenwaldManaging Director ES Kapital

""

"The climate crisis needs comprehensive decarbonization in various areas to ensure that our society remains fit for the future. We firmly believe that the hydrogen battery can make a decisive contribution to this."

Thomas Beyer & Curt StollManaging Partners BESTOGmbH

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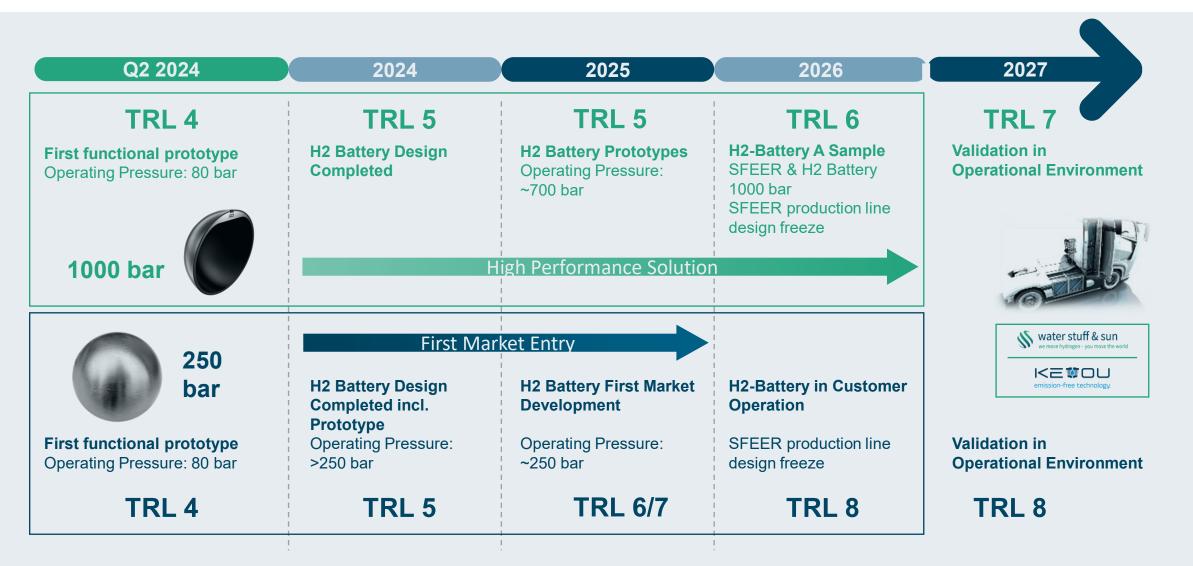
"WSS combines two proven technologies in a unique way so that the problem of storage and application of renewables can be solved in a fundamentally simpler and more cost-effective way than it has been done so far. This presents an opportunity to fundamentally change the way green energy is handled for the better - and for us, that's true innovation."

Bernd Nagel
 Managing Director NAGEL
 Maschinen- und Werkzeugfabrik GmbH



Development roadmap

250 bar version will soon be on the market



H₂ battery generates high interest for different applications

Concept studies for H₂ battery integration in different applications running

Concept studies

CS show performance upgrade through H₂ battery storage technology in different applications and products



Technical due diligence by OEMs potentially using H2 battery technology in their products

Partners to be announced



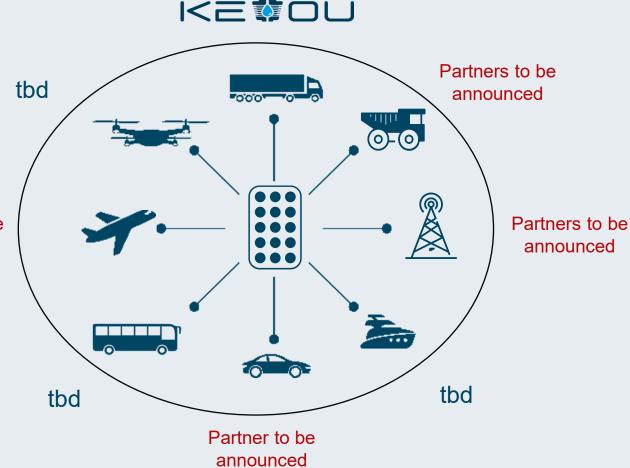
Integration concept of H₂ battery in applications (e.g., package space, H2 usage, pressure needs)

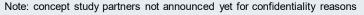


Prototype planning



Potential strategic investments





Investment opportunity @ water stuff & sun

Promising and sustainable investment in decarbonizing the world!

Final seed round I ongoing: €3m

IMVS

Series A investment round¹

Expected timing: 2024

Upcoming round ('24): ~€10m

Following rounds

~€35m ('25-27):

End application



Draws H₂ at 4-15 bar from the battery



Research & development:

- H2 storage in SFEERs with innovative microvalves TRL 6/7
- H2 battery (low pressure tank) TRL 6/7
- Charging and swapping station infrastructure concepts

Organizational development

- Strengthening current engineering team to speed up R&D timeline
- Growth of business development team fostering cooperations with partners along the H2 value chain

Why to invest?

- Innovative low-risk and low-cost solution for H2 storage and transport
- Scalable and cost efficient H2 infrastructure system applicable in many further markets
- Profitable business generating early on high and stable EBITDA margins as well as cash flows
- Highly experienced founding / management team and deep expertise of R&D teams

Following rounds excl. industrialization

Water stuff & sun – a team to revolutionize hydrogen economy

Experts and long-standing experience from various industries shape our team



Thomas Korn CEO & founder

H₂ expert since 1990ies, former R&D lead for fuel cells at BMW; entrepreneur of rewarded and established H₂ engine start-up **KEYOU**.



Alvaro Sousa

Passioned H₂ engineer, lead of the technical team of the 1st developed H₂ fleet series at BMW, developer of the 1st time ever produced H₂ racing car for **Aston** Martin, university lecturer on clean vehicle technologies, co-founder of KEYOU.



CSO & founder





Jonas Flädjemark COO & founder

Swedish racing car driver, serial **inventor** and innovator with numerous patents, as well as several products succeeding in a variety of markets.



Lukas Kalt Head of Technology

Expert for type IV pressure vessel development and hydrogen vehicle system design. Former Segment-Leader for hydrogen transportation and infrastructure of a world-leading vessel manufacturer.



Dr. Dirk Schilder Head of Corporate Finance

15 years of experience in corporate finance and strategy at the Boston Consulting Group, served international clients with corporate finance, capital market and strategy related projects.















