

FRONIUS SOLHUB.

The system solution for local generation, storage and usage of green hydrogen from solar energy.

SOL HUB H₂



The system solution for local generation, storage and usage of green hydrogen from solar energy.

Here at Fronius we believe that green hydrogen represents both a sustainable alternative to fossil fuels for mobility and a potential long-term storage solution for renewable energy.

It's with this conviction that we have been researching and developing hydrogen solutions for two decades to become the innovation leader in green hydrogen from solar energy.

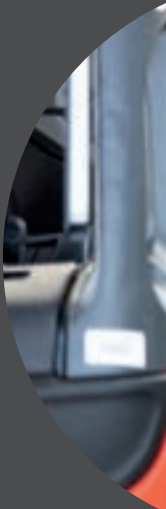
The Fronius Solhub is our system solution for generating, storing, distributing and reconvertng green hydrogen. This innovative system provides municipalities, businesses and industrial companies with a sustainable mobility and energy solution.



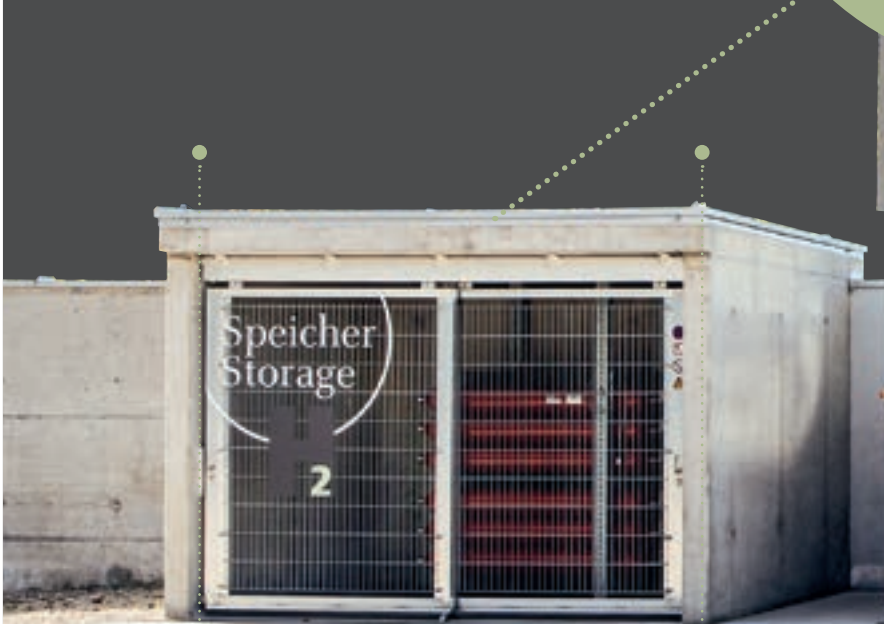
Vehicles powered by fuel cells convert hydrogen into electricity and heat through the chemical reaction with oxygen, which drives an electric motor. The only emission produced is steam.

TECHNICAL DATA

Technology	PEM
H ₂ - production	Up to 192 kg/day, scalable and multipliable
H ₂ - storage	Application-optimized pressure levels and capacities
H ₂ -quality (purity)	5.0
Output pressure	350 bar / 700 bar



The Fronius Solhub enables the refuelling of H₂-powered vehicles as well as the storage and reconversion of green hydrogen.



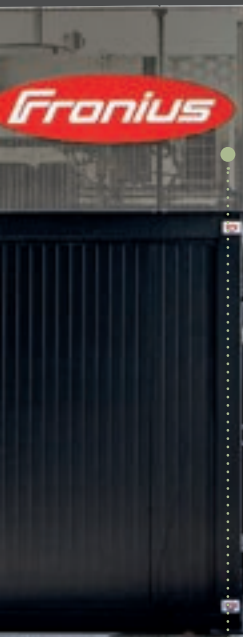
H₂ STORAGE SYSTEM

FUEL CELL

ELECT



SOL HUB



TROLYSER

DISPENSER

COMPLETE SOLUTION

from a single source

Each individual system is planned and constructed to suit the individual requirements of the customer and also comes with a bespoke service and support plan. The 30 ft (9.14 m) containers can be scaled and multiplied as desired.



KEY FEATURES

- / Utilisation of waste heat
- / Energy storage system
- / Produce your own, green H₂
- / Turnkey complete solution
- / Demand-oriented modularity

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HOURS OF SUN

Due to its innovative integration of the electricity, mobility and heating sectors, the Solhub represents an important part of our “24 hours of sun” vision.

A future in which 100% of the world’s energy needs are covered by renewable sources.

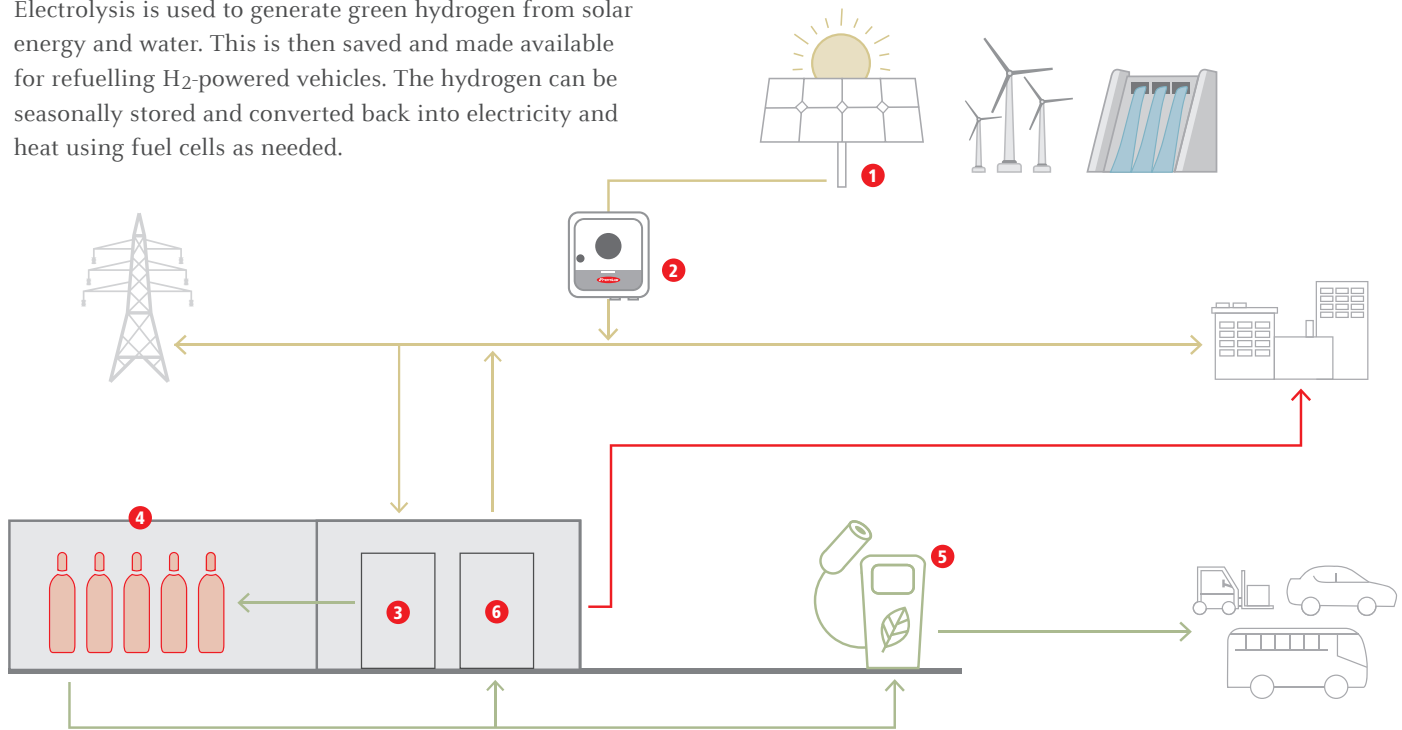
CONTACT US

solhub@fronius.at

HOW IT WORKS

Green hydrogen from solar energy: production, refuelling, storage and reconversion

Electrolysis is used to generate green hydrogen from solar energy and water. This is then saved and made available for refuelling H₂-powered vehicles. The hydrogen can be seasonally stored and converted back into electricity and heat using fuel cells as needed.



- 1 PV modules, wind and hydro power
- 2 Fronius inverter
- 3 Electrolyser
- 4 H₂ storage
- 5 Dispenser
- 6 Fuel cell

* Use of heat also for service water and low temperature heating.

- Electrical power
- Hydrogen
- Thermal Energy *

/ Perfect Welding / Solar Energy / Perfect Charging

THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 5,660 employees worldwide and 1,321 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

Fronius UK Limited
 Maidstone Road, Kingston
 Milton Keynes, MK10 0BD
 United Kingdom
pv-sales-uk@fronius.com
www.fronius.co.uk

Fronius International GmbH
 Froniusplatz 1
 4600 Wels
 Austria
pv-sales@fronius.com
www.fronius.com