Green hydrogen production for every scale & purpose
Leading provider of electrolysis equipment.

Green Hydrogen Systems is a leading provider of standardised and modular electrolysis equipment for the production of green hydrogen solely based on renewable energy.

Green hydrogen provides the critical link between renewable electricity generation and hard-to-abate sectors such as industry, heavy transport and buildings. With its wide range of possible applications, green hydrogen plays a key role in the ongoing fundamental shift in our energy systems towards a net-zero emission society in 2050. As a result, the demand for green hydrogen is surging, requiring a significant scale-up of electrolysis capacity.

Our technology enables onsite production of green hydrogen and an energy supply system solely based on renewable energy. We are committed to helping customers decarbonise their operations and decrease dependence on fossil fuels.

One of the most efficient electrolyser on the market
Electrolysis solution
for every scale

Our standardised electrolysers are based on a modular design, and each module can be used as a stand-alone electrolyser or combined in clusters for larger multi-MW and GW applications.

We have explored different technologies and have decided to fully prioritise pressurised alkaline electrolysis as our core technology, which is well-positioned in terms of reliability, efficiency and physical footprint.
Current
HyProvide® A-Series

Available in standardised, modular configurations for maximum efficiency, versatility and scalability, this next-generation technology makes the A-Series one of the most efficient alkaline electrolysers on the market. The unit is designed from the ground up to accommodate the input fluctuations that come with renewable energy sources. Its versatile design allows for application across many different market segments for green hydrogen production fully prioritise pressurised alkaline electrolysis as our core technology, which is well-positioned in terms of reliability, efficiency and physical footprint.

Example of an A-Series site configuration of 3 MW

For projects up to 6MW

Upcoming
HyProvide® X-Series

The X-Series is based on the existing well-proven technology, optimised for use in the growing market for large-scale applications in, for example, industry, energy and heavy-duty transport sectors. Its unique multi-stack concept with power consumption of approx. 6MW allows the electrolyser to reach higher voltages crucial to utilise mass-produced, low-cost and high-efficiency power electronics from wind and solar markets. The X-Series will drive costs down for the production of hydrogen (LCOH) through increased system efficiency, serial production and a number of cost-out initiatives.

Example of an X-Series site configuration of 24 MW

For projects above 6MW and beyond 100 MW
Safety & Efficiency

All modules are extensively tested at our factory in Denmark before being shipped to the customer. This approach allows for the highest quality, safety and rapid deployment on-site.
Partnership built on expertise & innovation

Partnerships are at the heart of what we do. Accelerating the global energy transition requires close collaborations across the whole value chain. Our technology is already in use in several places in Europe, where we are helping our customers to achieve independence from fossil fuels and designing the energy solutions for the future.

**Lowest levelised cost of hydrogen**

Our mission is to bring the levelised cost of hydrogen down to the cost-parity with fossil fuels and ensure the best total cost of ownership for our customers.

**Value Engineering**

Our experts analyse every project individually and make sure the best product, site and system configuration to ensure highest possible value for our customers.

**Partnership for the future**

We strive to be on the forefront of the ongoing energy transition and develop future-proof technology. By partnering with us you get unmatched equipment to support your hydrogen ambitions.

**Long-term performance guarantees**

Delivering business case certainty and lifetime asset optimisation by providing global service solutions & building data infrastructure as an enabler for performance guarantees.

**Global service solutions adjusted to your needs**

- Installation & commissioning
- Remote monitoring & support
- Performance guarantees
- Advanced asset analytics
- Training
- Installation & commissioning
- Remote monitoring & support
- Performance guarantees
Green Hydrogen Systems has grown from 20 employees in 2020 to over 200 employees today and we expect to continue to grow our team as part of our planned scaling initiatives. Currently, we are in the process of expanding our production and administration facilities. The new facilities will increase the current yearly capacity from 75 MW to 400 MW worth of electrolysers.
Green Hydrogen Systems
Future and ongoing projects in Europe

All numbers are accumulated

+120 MW
Denmark

+1,4 MW
The Netherlands

+3 MW
UK

+2 MW
Norway

+0,4 MW
Sweden

+1,3 MW
Germany

+0,5 MW
Switzerland

+0,5 MW
France

www.greenhydrogensystems.com